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Geology

U. S. DEPARTMENT OF COMMERCE, WEATHER BUREAU

CLIMATOLOGICAL DATA

19

MISSOURI SECTION

H. F. WAHLGREN
ST. LOUIS, MO.

VOL. XLVIV JANUARY 1945 No. 1

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GENERAL SUMMARY

Temperature and precipitation both averaged below normal, for the State as a whole, during January, while the snowfall averaged more than normal. Much cloudy and damp weather prevailed and it was the second consecutive month that farm work was kept at a standstill. Sunshine was again deficient for the third straight month.

Temperature extremes were not unusual, although rather sudden changes occurred; only two or three days separated the warmest and coldest days of the month, at many stations. The Northern and Southeastern Divisions had monthly averages of approximately 1° and 2°, respectively, less than their normals, while the Southwestern Division averaged 0.6° warmer than normal. The first two and the last two days of the month and the 9th and 10th were decidedly cold, averaging 15° to 20° below normal. The warmest period was from the 12th to 14th, while another period of moderate warmth prevailed from the 18th to the 27th. As a rule, the 9th was the coldest day of the month and the 11th, 12th, 13th, and 25th were the warmest.

Precipitation occurred as both rain and snow, being particularly heavy in the latter form in the extreme northeastern counties, where the monthly snowfall totals ranged from 9 to over 18 inches. Across the central third of the State the monthly snowfall was light to moderate. In the area of heaviest snowfall the ground was snow-covered during practically the entire month. Elsewhere the ground was bare much of the time. The monthly precipitation was irregularly distributed and each of the three divisions of the State had sub-normal monthly averages, ranging from 0.60 inch for the Northern Division to 1.85 inches for the Southeastern Division. Sleet and glaze occurred rather frequently, but were not as heavy, or frequent, as last month.

Rivers of the State did not reach flood stage at any time and there were no damaging storms during the month.

Wheat and grass remained dormant throughout the month. The prevailing unfavorable weather was not conducive to carrying on farming activities and very little work of this type was accomplished. Some corn and other feed, as well as some cotton, remained in the fields at the close of the month. Livestock fared well, but were on feed most of the month, there being very little open weather favorable for foraging, particularly over the northern half of the State. Alternate thawing and freezing kept fields and dirt roads slippery and muddy most of the month.—M. R. W.

TEMPERATURE

The monthly mean for the State, 94 stations reporting, was 30.0°, or 0.8° lower than the 58-year January average. The highest monthly mean was 36.1° at Neosho, and the lowest was 20.0° at Memphis. The highest reported was 65° at Ozark Beach on the 13th and at Caruthersville on the 25th and 26th, and the lowest was 12° below zero at Albany, on the 31st.

PRECIPITATION

The average for the State, 211 stations reporting, was 1.08 inches, or 1.22 inches less than the 58-year January average.

(Continued on page 3)

PRESSURE, WIND, HUMIDITY, AND SUNSHINE

Stations	Sea-level pressure, extremes–inches				Wind				Relative humidity §			Percentage of sunshine	Degree days
	Highest	Date	Lowest	Date	Average hourly velocity	Maximum velocity	Direction	Date	6:30 a. m.	12:30 p. m.	6:30 p. m.		
Columbia	30.63*	31	29.70*	14	7.4	24	nw	8	85*	70*	76*	37	1145
Kan. City Airp't.	30.62	31	29.61	8	9.4	34	nw.	8	84	73	74	37	1061
St. Joseph	30.64*	31	29.60*	8	7.8	29	n.	8	86*	75*	78*	37	1135
St. Louis	30.66*	31	29.73*	14	9.8	29	w.	1	77	67	74*	44	1124
Springfield	30.56	31	29.71	14	10 2	33	nw.	15	92	75	80	41	1021
Cairo, Ill.	30.61	31	29.73	14	8.2	31	n.	8	85	72	..	45	971
....	.....	..	.....	..	....	..	......	..	..	..	..	..	....

* Data for Airport station.

§ C. S. T.

COMPARATIVE DATA FOR JANUARY

Year	Temperature			Precipitation					Number of days			
	Average for State	Highest	Lowest	Average for State	Average, Northern Division	Average, Southwestern Division	Average, Southeastern Division	Snowfall, Average for State	Precip. .01 inch or more	Clear	Partly cloudy	Cloudy
1888	21.5	74	−32	2.14	1.76	2.20	2.47	....	6	..	..	..
1889	31.8	69	− 2	2.53	1.65	2.48	3.45	....	6	..	..	..
1890	33 8	81	−19	5.18	3.23	4.18	8.14	....	9	..	..	..
1891	34.1	74	− 1	1.63	1.36	0.98	2.56	4.3	6	..	..	..
1892	24.0	67	−31	1.87	1.80	1.87	1.93	....	4	14	8	9
1893	22.5	66	−14	0.45	0.51	0.41	0.42	2.4	3	9	11	11
1894	31.4	77	−35	2.48	1.90	2.95	2.59	2.7	5	13	9	9
1895	24.7	78	−22	1.66	0.97	1.44	2.57	9.4	5	14	8	9
1896	32.9	71	− 9	1.19	1.05	0.85	1.67	3.1	4	10	7	14
1897	28.4	72	−16	5.24	4.18	5.50	6.04	4.0	8	12	7	12
1898	34.3	75	−10	4.11	4.02	3.84	4.48	8.4	9	11	8	12
1899	30.2	70	−21	1.93	0.62	1.20	3.96	4.0	6	12	8	11
1900	34.5	77	− 9	1.28	0.98	1.18	1.67	0.2	4	14	7	10
1901	35.0	72	−11	1.31	1.21	1.45	1.27	0.8	4	17	7	7
1902	30.1	72	−17	1.36	1.07	0.95	2.05	6.9	5	16	7	8
1903	31.4	73	−11	1.49	1.07	1.41	1.98	5.0	6	13	6	12
1904	27.0	66	−23	3.01	2.64	2.74	3.66	7.4	8	14	6	11
1905	22.3	72	−19	2.04	1.06	2.10	2.95	6.8	8	14	6	11
1906	35.6	77	− 8	3.44	2.20	3.07	5.04	9.2	6	14	5	12
1907	34.3	79	− 5	5.04	4.14	5.28	5.69	2.8	12	7	6	18
1908	34.4	68	−10	1.67	0.50	1.47	3.04	3.6	5	19	5	7
1909	33.7	83	−20	2.36	2.01	1.70	3.36	6.5	7	6	7	18
1910	32.3	78	−24	1.82	1.96	1.73	1.78	3.5	5	13	6	12
1911	34.6	78	−19	0.84	1.57	0.32	0.64	0.7	5	8	7	16
1912	20.0	70	−36	1.22	0.35	0.79	2.51	6.5	4	14	7	10
1913	33.1	74	−12	4.18	1.53	2.63	8.38	2.6	8	13	6	12
1914	38.1	78	− 1	1.45	0.96	1.43	1.95	1.0	4	12	7	12
1915	29.1	76	−24	2.88	2.29	2.48	3.86	5.4	8	12	5	14
1916	31.6	72	−24	7.66	5.23	8.32	9.42	3.4	12	9	4	18
1917	32.9	76	−10	1.53	0.75	1.05	2.79	2.3	5	15	7	9
1918	16.4	67	−24	1.72	1.08	1.45	2.63	16.6	7	12	7	12
1919	34.0	70	−23	0.44	0.14	0.32	0.85	1.4	2	20	5	6
1920	28.6	72	− 5	1.72	0.52	1.39	3.25	5.7	5	15	5	11
1921	37.1	74	− 1	1.88	1.42	2.07	2.15	5.4	6	10	7	14
1922	29.5	66	− 6	1.33	1.08	1.41	1.50	3.9	5	14	5	12
1923	39.2	75	3	2.58	0.77	2.21	4.77	0.6	6	12	7	12
1924	24.9	68	−25	1.59	1.08	1.64	2.05	5.7	7	14	5	12
1925	29.7	65	−15	1.05	0.41	1.29	1.44	4.7	4	15	7	9
1926	32.7	70	−20	1.93	1.28	1.91	2.60	4.2	6	11	7	13
1927	30.8	73	−24	3.05	0.90	2.43	5.81	3.6	6	13	6	12
1928	33.3	77	−18	0.97	0.31	0.81	1.80	0.5	3	16	7	8
1929	25.1	72	−13	3.51	2.77	2.79	4.96	6.8	8	11	6	14
1930	20.8	73	−31	4.62	2.38	4.18	7.30	13.0	10	12	5	14
1931	36.0	76	− 5	0.74	0.39	0.65	1.18	2.0	4	16	6	9
1932	36.4	73	− 7	3.56	1.78	3.23	5.66	1.0	9	10	7	14
1933	41.4	72	8	2.56	1.73	2.62	3.34	0.5	6	14	8	9
1934	36.1	71	− 6	1.34	0.88	1.33	1.82	1.5	5	13	6	12
1935	33.0	71	−12	2.57	1.47	2.44	3.81	0.5	7	12	6	13
1936	24.4	74	−25	1.01	1.69	0.56	0.77	7.6	7	11	7	13
1937	28.5	70	−15	6.38	3.66	5.20	10.28	4.3	11	9	5	17
1938	33.1	75	− 9	2.93	2.53	3.00	3.27	0 3	6	13	6	12
1939	39.0	74	− 5	2.74	1.40	2.25	4.57	8.1	9	12	8	11
1940	15.5	55	−28	1.35	1.21	1.19	1.66	12.4	8	13	7	11
1941	34.7	70	0	3.41	3.59	3.70	2.93	4.4	11	9	5	17
1942	31.1	74	−24	1.66	0.57	1.30	3.10	3.4	5	18	6	7
1943	31.1	81	−23	0.39	0.58	0.29	0.30	3.0	4	14	7	10
1944	35.7	77	− 6	0.63	0.55	0.74	0.61	1.3	4	15	8	8
1945	30.0	65	−12	1.08	0.98	0.88	1.39	5.4	7	9	7	15
....	....	..	....	....	....	....	....	....	..	..	..	..
....	....	..	....	....	....	....	....	....	..	..	..	..
....	....	..	....	....	....	....	....	....	..	..	..	..
Period	**30.8**	**83**	**−36**	**2.30**	**1.58**	**2.09**	**3.24**	**4.5**	**6**	**13**	**6**	**12**

Climatological Data for January 1945

Stations	Counties	Elevation, feet	Temperature, in degrees Fahr.							Precipitation, in inches						Number of days				Prevailing direction of wind	Observers
			Length of record, years	Mean	Departure from the normal	Highest	Date	Lowest	Date	Length of record, years	Total	Departure from the normal	Greatest in 24 hours	Date	Total snowfall, unmelted	With precip., .01 inch or more	Clear	Partly cloudy	Cloudy		
Northern Division																					
Albany	Gentry	930	4	25.0[a]	......	50[a]	11†	−12	31	16	0.86	+0.03	0.40	29	9.5	5	10[b]	8[b]	11[b]	n.	Curtis E. Grace
Bethany	Harrison	916	50	....	......	..	..	..	..	52	....	......	....	..	....	..	..	..	..	......	A. S. Cumming
Brookfield	Linn	767	4	24.8	......	50	11	− 4	9†	4	1.14	......	0.61	8	6.0	4	5	5	21	e.	G. F. Breen
Brunswick	Chariton	652	64	26.8	+ 0.1	53	11	0	10	66	0.73	−0.86	0.33	22	6.5	9	9	2	20	nw.	O. K. Benecke
Canton, Lock & Dam 20	Lewis	488	7	22.4	......	45	12	− 9	9	15	1.28	−0.66	0.47	21–22	18.7	8	9	4	18	nw.	Lockmaster
Chillicothe	Livingston	779	36	25.2	+ 0.8	51	11	− 2	9†	39	0.90	−0.58	0.43	21	6.0	8	12	3	16	ne.	Wm. J. Olenhouse
Clifton Hill	Randolph	731	46	....	......	..	..	..	..	36	....	......	....	..	....	..	..	..	..	......	Dr. A J. Bradsher
Columbia	Boone	740	55	28.2	− 2.7	55	13	0	9	55	0.94	−0.98	0.32	18–19	2.3	9	5	12	14	n.	U. S. Weather Bureau
Conception	Nodaway	1,108	56	25.3	+ 0.6	48	11	− 5	31	61	0.78	−0.01	0.26	28–29	7.5	9	9	7	15	w.	Fr. Adelhelm Hess
Edgerton	Platte	856	25	....	......	..	..	....	..	42	0.77§	−0.08	0.25	25	2.3§	7	10	5	16	n.	Paul C. Handley
Elsberry	Lincoln	449	14	27.9	− 3.7	47	12	− 3	9	14	0.85§	−1.32	0.30	21	*2.8*	10	7	16	8	n.	John Dowell
Fayette	Howard	760	65	28.3	+ 1.3	55	11	− 1	9	62	0.66	−1.13	0.20	18	3.4§	7	10	5	16	n.	Irvin E. Schnell
Fulton	Callaway	818	57	27.0	− 2.5	54	13	− 3	9	53	1.04	−0.98	0.28	18–19	6.9§	11	16	6	9	w.	Frank E. Hillgartner
Grant City	Worth	1,134	41	23.9	− 0.9	45	11†	− 3	1†	53	0.77§	−0.20	*0.45*	21	9.4§	7	8	10	13	e.	J. Homer Korn
Hannibal	Marion	759	53	23.2	− 3.9	45	11†	− 8	9	61	1.43	−0.29	0.52	14	13.7	6	5	10	16	n.	Hannibal Water Dept.
Kansas City Airport	Jackson	741	56	30.6	+ 2.4	58	11	4	1	56	0.38	−0.86	0.10	21†	1.0	7	5	7	19	ne.	U. S. Weather Bureau
Kansas City Univ.	Jackson	908	7	31.6	......	58	11	7	1	7	0.42	......	0.14	21	....	6	..	..	..	n.	University of Kansas City
Kidder	Caldwell	1,020	53	25.3	− 0.7	51	11	− 1	1†	57	0.65§	−0.57	0.11	22	5.2§	10	9	5	17	s.	Mrs. Geraldine Terry
Kirksville	Adair	969	56	23.1	− 1.7	44	11†	− 8	9	63	1.38	−0.14	0.56	14	14.9	7	10	4	17	sw.	P. O. Selby
Lawson	Ray	1,070	7	28.1	......	56	11	1	1	7	0.67	......	0.18	21	2.8	11	6	9	16	nw.	Elmer E. Lamb
Louisiana	Pike	469	51	23.9	− 4.2	46	11†	− 6	9	64	0.94	−1.21	0.40	15	8.0§	4	7	13	11	n.	Stark Bro's Nurseries
Macon	Macon	875	46	23.8	− 3.7	49	11	− 9	9†	52	0.85	−0.85	0.28	8†	9.3	6	4	11	16	nw.	John W. Atwell
Maryville	Nodaway	1,169	55	23.7	+ 0.8	48	11	− 6	31	51	0.68	−0.32	0.22	28–29	8.0	8	9	3	19	nw.	R. B. Montomery
Memphis	Scotland	787	6	20.0	......	45	12	−10	9†	15	0.91§	−0.62	0.60	14–15	11.5	5	8	4	19	nw.	John W. Alexander
Mexico	Audrain	800	56	26.2	− 1.8	54	12	− 5	9†	67	1.14	−0.89	0.33	18–19	6.7	4	9	12	10	nw.	Darrence W. Stuart
Moberly .....3½ mi. NE	Randolph	860	8	24.6	......	48	11†	− 7	9	8	0.57	......	0.25	8	6.4	5	12	5	14	ne.	F. W. Bell
New Florence. 1 mi SE	Montgomery	885	2	26.0	......	52	13	− 4	9	3	0.94	......	0.26	14–15	7.9	6	4	7	20	n.	U. S. Weather Bureau
Oregon	Holt	1,048	89	27.6	+ 3.5	52	11†	0	1†	89	0.85	−0.08	0.32	21	6.5	6	11	10	10	nw.	Miss Mina Wright
St. Charles	St. Charles	520	57	27.1	− 3.9	54	12	− 2	9†	67	1.26§	−0.89	....	..	5.7§	10	13	8	10	sw.	Martin L. Comann
St. Joseph	Buchanan	957	35	28.5	+ 3.0	55	11	3	1	73	0.59	−0.69	0.18	21	3 7	8	9	7	15	w.	U. S Weather Bureau
Saverton, Lock No. 22.	Ralls	472	7	24.6	......	47	12	− 8	9	7	1.49	......	0.55	14–15	13.9	10	5	16	10	nw.	Lockmaster
Shelbina	Shelby	779	4	25.0	......	47	13†	−10	9	52	1.24	−0.29	0.48	8	9.4	7	9	6	16	nw.	Guyman Hatcher
Steffenville	Lewis	650	47	23.5	− 3.9	45	12	−10	9	52	1.10	−0.91	0.40	21	13.5	8	8	9	14	nw	Mrs. Fannie V. Gross
Tarkio	Atchison	916	42	25.0	+ 2 1	51	13	− 8	4	51	0.34	−0.40	0.15	21	4.8	6	8	8	15	n.	C. A. A. Station
Trenton	Grundy	822	49	26.4	+ 0.1	48	11†	− 4	9	50	1.01	−0.33	0.30	21	15.0	9	5	8	18	n.	W. H. Estes
Unionville	Putnam	1,062	52	21.6	− 1.9	47	23	−10	9	52	1.06	−0.66	0.38	14	12.0	6	7	16	8	nw.	C. D. Wilson
Vandalia	Audrain	766	1	26.8	......	55	12	− 7	9	6	1.07§	......	*0.30*	20	8.5§	11	6	4	21	n.	H. G. McIntire
Warrenton	Warren	816	63	27.8	− 1.4	53	13	− 8	10	55	1.08	−1.11	0.45	18–19	6.2	6	14	7	10	w.	W. T. Zimmerman
Keokuk, Iowa	Lee, Ia.	574	73	22.0	− 2.9	48	11	− 8	9	73	0.88	−0.68	0.39	21	9.9	6	6	8	17	nw	U. S. Weather Bureau
Division means	**and extremes**	.....	..	**25.6**	**− 1.0**	**58**	**11**	**−12**	**31**	..	**0.98**	**−0.60**	**0.75**	**14–15**	**7.9**	**7**	**8**	**8**	**15**	**nw.**	
Southwestern Division																					
Anderson ...1½ mi SW	McDonald	1,000	41	33.2	− 2.7	63	13†	7	29	46	1.41	−1.12	0.50	2	5.0	6	12	4	15	n.	Samuel G. Chamberlain
Appleton City	St. Clair	813	50	31.8	+ 0.5	58	11†	8	9†	53	0.65	−1.19	0.25	21–22	3.0	5	10	1	20	sw.	Rolla Brown
Bolivar	Polk	1,071	42	38.3	− 0.6	60	13	3	30	50	0.90§	−1.03	0.38	18–19	6.0	7	10	8	13	sw.	Southwest Baptist College
Boonville	Cooper	650	7	28.0	......	57	11	2	9†	68	0.51	−1.21	0.28	19	2.3§	3	6	10	15	nw.	Boonville Water Dept.
Carthage	Jasper	962	11	35.2	......	63	13	9	2†	21	0.92	......	0.39	18–19	*5.0*	6	9	12	10	n.	Carthage W. and E. Plant
Clinton	Henry	786	52	31.2	− 0.5	59	11	7	1	58	0.73	−1.30	0.33	20–21	*1.0*	9	9	6	16	w.	U. S. Weather Bureau
Eldon	Miller	934	50	31.8	+ 0.7	61	12	3	9	46	0.65	−1.11	0.35	18–19	*2.0*	5	14	2	15	n.	E. H. Shepherd
Fort Leonard Wood	Pulaski	1,107	4	30.4	......	59	13†	3	9†	4	0.86§	......	0 28	29	3.1§	6	10	19	2	nw.	U. S. Army Medical Corps
Harrisonville	Cass	904	67	29.4	+ 2.1	58	11	3	1†	70	0.23	−1.34	0.16	21	*1.5*	4	5	4	22	ne.	John H. Patterson
Jefferson City	Cole	557	55	29.2	− 0.6	58	13	− 2	9†	63	0.97	−1.01	0.28	21–22	4.0§	8	8	4	19	n.	Mrs. Frank Kliegel
Joplin	Jasper	1,008	23	35.5	+ 0.6	63	13	12	9	40	0.89	−1.27	0.32	18	....	6	8	2	21	sw.	Empire Dist. Electric Co.
Lakeside	Miller	595	14	31.0	− 2.0	60	13	6	9†	14	0.86	−1.32	0.35	18–19	....	10	6	10	15	nw.	W. S. Frame
Lamar	Barton	980	57	32.6	+ 0.5	62	13†	4	30†	64	0.85	−0.98	0.25	2–3	5.0	4	11	5	15	nw.	Mrs. Marie Mann
Lebanon	Laclede	1,265	57	32.8	+ 0.3	63	24	0	31	58	0.79§	−1.85	0.34	18–19	6.7§	7	6	10	15	nw.	Mrs. Rosa E. Montelius
Lexington	Lafayette	688	60	§30.1[a]	+ 2.3	57	11†	*3*	9	61	0.51	−1.01	0.25	21	*4.0*	5	8	14	9	nw.	Miss Carrie Loomis
Lockwood	Dade	1,078	39	34.4	+ 1.1	63	13	9	30	49	0.96	−0.90	0.30	27–28	5.0	4	9	11	11	nw.	Hubert A. Nieman
Marshall	Saline	779	58	30.9[c]	+ 3.0	58[c]	11	2[c]	9	55	1.51	−0.14	1.27	18–19	*1.0*	6	10[a]	4[a]	16[a]	se.	Mrs. Merrel Peace
Mountain Grove	Wright	1,463	44	32.8	0.0	59	13	5	9	48	0.94	−1.79	0.48	18–19	*6.7*	6	9	9	13	nw.	Mo. Fruit Exp. Station
Mount Vernon	Lawrence	1,174	33	....	......	..	..	9	30	45	1.01	−1.70	0.34	21–22	*6.8*	5	10	4	17	n.	James C. Williamson
Neosho	Newton	1,011	58	36.1	+ 1.0	63	13	8	30	62	1.06	−1.41	0.32	28	5.0	9	6	11	14	nw.	U. S. Fisheries Station
Nevada	Vernon	862	52	33.6	+ 1.7	62	13	0	30	53	0.78	−1.09	0.23	27–28	4.5	6	11	4	16	ne.	Henry Kraft
Ozark Beach	Taney	700	5	35.0	......	65	13	11	10†	20	1.31	−1.66	0.62	18–19	6.0	5	3	4	24	w.	Empire District Elec. Co.
Sedalia	Pettis	910	32	30.8	+ 4.4	58	11	4	1†	34	0.57	−1.68	0.19	21	1.8§	9	8	6	17	nw.	Dr. J. E. Cannaday
Seligman	Barry	1,542	44	34.7[a]	− 0.4	63[a]	13	9[a]	9†	42	1.15	−1.64	0.60	27–28	7.0	7	9[b]	12[b]	8[b]	e.	Floyd E. Fawver
Seymour..3½ miles NE	Webster	1,642	39	32.0	− 2.0	57	13	2	29†	39	0.98	−1.61	0.36	18	9.7	5	8	7	16	nw.	A. L. Hailey
Springfield.. ½ mile E	Greene	1,301	57	32.0	− 0.3	62	13	6	30	57	0.88	−1.46	0 33	18–19	6.0	8	5	9	17	s.	U. S. Weather Bureau
Sweet Springs	Saline	700	4	30.0	......	58	11	4	1†	4	0.66§	......	0.25	21	*3.3*§	10	8	9	14	w.	H F. Nelson
Warrensburg	Johnson	878	58	31.2[a]	+ 2.5	58	11†	5[a]	1	65	0.27	−1.51	0.19	21	*0.5*	5	11	4	16	nw	Central Teachers College
Warsaw	Benton	687	44	32.9	0.0	59	11	4	31	50	0.77§	−1.37	0.25	18–19	2.2	5	10	7	14	nw.	Dora B. Johnson
Wasola	Ozark	1,294	4	34.7	......	61	12	8	9	5	1.25	......	0.65	18–19	10.3§	5	12	9	10	w.	A. W. Pinckney
Division means	**and extremes**	.....	..	**32.3**	**+ 0.5**	**65**	**13**	**− 2**	**9†**	..	**0.88**	**−1.21**	**1.27**	**18–19**	**4.4**	**6**	**9**	**7**	**15**	**nw.**	
Southeastern Division																					
Advance.... ¼ mile W	Stoddard	354	8	32.0	......	56	25	4	29	8	1.15	......	0.65	18–19	2.5	8	8	4	19	n.	U. S. Weather Bureau
Arcadia	Iron	926	64	30.6	− 1.3	64	25	2	10†	67	0 64	−2.35	0.30	19	*3.3*	3	12	1	18	w.	Arcadia College
Birch Tree... ½ mile E	Shannon	1,000	50	32.5[a]	− 2.0	61[a]	25	0[a]	29	51	1.37§	−1.81	0.51	18–19	7.0§	8	12[b]	6[b]	10[b]	nw.	R. C. Moger
Black.......9 miles NW	Iron.	1,000	52	29.8	− 2.8	59	25	− 6	29	52	0.98	−1.72	0.38	18	4.9§	11	12	4	15	w.	Claude Volner
Campbell	Dunklin	314	19	35.8	− 1.9	62	25	13	2†	19	2.58§	−2.72	1.07	6–7	5.6	13	12	6	13	s.	Mrs Ruth Christian
Caruthersville	Pemiscot	265	49	35.6	− 3.5	65	25†	13	29	53	3.14	−2.05	0.84	††	1.6§	13	12	5	14	n.	Victor T. Malloure
Crystal City	Jefferson	420	11	30.2	− 1.2	55	12	0	9†	11	0.83	−1.46	0.34	14–15	3.4	9	10	5	16	ne.	Richard K. Ragland
Doniphan	Ripley	344	41	35.1	− 0.7	64	25	6	29	41	1.07	−3.03	0.21	18	3.1§	9	14	2	15	nw.	Boyce Lackey
Farmington	St. Francois	896	34	31.1	− 1.5	54	23†	1	9	48	1.28	−1.86	0.68	19	4.5	8	8	5	18	s.	F. M. Karsch
Greenville	Wayne	460	36	33.8	− 1.2	60	25	2	29	38	0.33§	−2.89	*0.10*	2	*2.0*	5	11	4	16	nw.	Beuford Shoemake
Jackson	Cape Girardeau	428	54	32.6	− 1.2	54	25	0	29	55	1.83	−2.11	0.82	19	4.0	9	11	2	18	n.	John G. Putz
Koshkonong	Oregon	958	44	35.3	− 1.2	62	25	9	9	45	1.32	−2.30	0.53	18–19	3.0	6	13	2	16	nw.	Mrs Genevieve T. Smith
Licking...... 4 miles N	Texas	1,170	8	32.0	......	59	13	− 2	30	8	0.64	......	0.54	18–19	*3.0*	2	14	5	12	n.	U. S. Forestry Service

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†† Dec. 31

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Climatological Data for January 1945—Continued from preceding page

Stations	Counties	Elevation, feet	Temperature, in degrees, Fahr. Length of record, years	Mean	Departure from the normal	Highest	Date	Lowest	Date	Precipitation, in inches Length of record, years	Total	Departure from the normal	Greatest in 24 hours [4]	Date	Total snowfall, unmelted	Number of days With precip., .01 inch or more	Clear	Partly cloudy	Cloudy	Prevailing direction of wind	Observers
Southeastern Division—	*Concluded*																				
Malden....4 miles NNW	Dunklin.........	292	2	34.5	......	63	25	12	29	2	2.14	......	0.81	6-7	2.6	12	9	4	18	n.	U.S. Weather Bureau
Marble Hill...........	Bollinger........	532	50	31.0	− 3.6	55	25	− 2	29	52	1.38	−2.49	0.51	18-19	3.5§	8	12	1	18	n.	R. A. DeWitt
Poplar Bluff...........	Butler...........	339	40	34.6	− 1.4	59	25	8	29	41	1.43	−2.99	0.43	18-19	5.0§	6	20	6	5	ne.	Joe Roehm
Rolla..................	Phelps...........	1,202	45	29.7	− 2.2	58	13	1	9	61	0.73	−1.73	0.34	18-19	5.9	6	6	10	15	w.	Rolla School of Mines
St. Louis...........	**St. Louis City**	465	108	28.7	− 2.4	51	12	0	9	108	1.02	−1.32	0.40	19	1.9	8	6	11	14	nw.	**Section Center**
St. Louis Airport......	St. Louis	556	8	27.7	− 2.1	51	23	− 2	9	14	1.10	−1.16	0.33	18-19	3.2	8	5	9	17	w.	U. S. Weather Bureau
St. Louis University...	St. Louis City...	578	33	29.0	− 3.0	52	12	0	9	33	1.05	−1.55	0.44	18-19	1.9	10	11	7	13	n.	St. Louis University
Salem..................	Dent.............	1,206	41	31.6	− 1.0	59	25	0	31	44	1.08	−1.64	0.45	18-19	6.6	8	9	5	17	s.	E. E. Martin
Sikeston...............	Scott............	318	38	34.0	− 3.0	60	26	10	29	48	2.50§	−2.36	0.75	18-19	6.0	13	9	9	13	n.	William B. Seabaugh
Union........1½ mi. SE	Franklin........	520	7	31.0	......	58	13	1	9	28	1.03§	−1.29	0.46	19	*3.4*	11	9	9	13	n.	Cornelius Sieges
Vichy........2 mi. NW	Maries...........	1,125	9	29.1	......	57	13	1	9	10	0.98	......	0.33	18-19	4.1	11	4	10	17	nw.	Civil Aeronautics Adm.
Wappapello Dam......	Butler...........	475	6	31.4	......	56	23†	9	2	6	1.29	......	0.52	18-19	2.0	9	4	3	24	nw.	U. S. Engineer Office
Weingarten...........	St. Genevieve ...	833	4	30.7	......	54	23	0	9	5	1.00	......	0.40	19	2.0	4	8	7	16	n.	William J. Miller
West Plains...........	Howell..........	1,005	8	33.0	......	62	25	6	29	8	0.87	......	0.34	18-19	5.0	6	8	8	15	nw	U. S. Weather Bureau
Willow Springs 500 ft E	Howell..........	1,238	4	33.5	......	61	25	2	29	38	1.34	−1.84	0.56	18-19	6.5§	9	11	7	13	ne.	Allen Frazee
Cairo, Ill..............	Alexander, Ill...	314	73	33.7	− 1.2	56	25	12	9	74	2.13	−1.63	0.75	18-19	3.7	14	8	7	16	n.	U. S. Weather Bureau
Division means	**and extremes**	.....	..	**32.1**	**− 1.9**	**65**	**25†**	**− 6**	**29**	..	**1.39**	**−1.85**	**1.41**	**6-7**	**3.8**	**9**	**10**	**6**	**15**	**n.**	
State means	**and extremes**	.....	..	**30.0**	**− 0.8**	**65**	**13†**	**−12**	**31**	..	**1.08**	**−1.22**	**1.41**	**6-7**	**5.4**	**7**	**9**	**7**	**15**	**nw.**	

The departures from normal temperature are computed from the averages of the entire period for stations having 10 or more years of record. Departures of precipitation for stations with 15 years or more of record are computed from a normal or "standard mean", adjusted to a uniform 35-year period; for stations of 10 to 14 years the means for the period of record are used. The normal may be found by adding the departures when minus (−) or subtracting when plus (+). Figures and letters following stations indicate distance in miles and direction of station from the city Post Office, unless otherwise indicated. T. Trace or 0.005 inch or less. [a], [b], [c], etc., number of days missing; for example, [b], indicates two days missing. Italics data interpolated. § Partly interpolated. † And other dates. ‡ Received too late to be included in means and summaries. [4] Best available used for stations not equipped with recorders. Post office address of: Altona is Adrian; Crane Mountain is Arcadia; East End is Goodland; Eastwood Lookout is Van Buren; Ellsinore Lookout is Mill Spring; Farber is Laddonia; Hailey is Cato; High Lookout is Birch Tree; Macedonia Lookout is Doniphan; Perry is Center; Pilot Knob is Ironton; Pineview Lookout is Duke; Sugar Camp Lookout is Cassville; Wilderness Lookout is Lampe.

(Continued from page 1)

The greatest monthly amount was 3.52 inches at Deering, and the least was 0.23 inch at Harrisonville. The greatest amount reported in 24 hours was 1.41 inches, at Deering, on the 6-7th. The average number of days with 0.01 inch, or more, was 7.

Snowfall averaged 5.4 inches, or 0.9 inch more than the 54-year January average. The greatest monthly total was 18.7 inches at Canton.

MISCELLANEOUS PHENOMENA

Fogs.—Heavy, 1st, 4th, 5th, 6th, 7th, 8th, 12th, 13th, 14th, 15th, 16th, 17th, 19th, 20th, 21st, 22d, 23d, 26th, 28th, 29th.

Glaze.—1st, 5th, 6th, 7th, 8th, 17th, 18th, 19th, 21st, 22d, 25th, 26th, 27th.

Sleet.—2d, 6th, 7th, 8th, 9th, 13th, 14th, 15th, 17th, 18th, 19th, 21st, 22d, 25th, 27th.

Windstorms.—No damaging windstorms reported.

ERRATA

November 1944, page 67: Average hourly wind velocity at St. Louis should be 12.1. December 1944, page 74: Total snowfall at Springfield should be 3.0. Greatest 24-hour precipitation and date at Clinton should be 0.52 on 4-5th. Page 75: Greatest 24-hour precipitation and date at West Plains should be 0.94 on 6-7th.

JAN 9 1952 HARDY

Daily Precipitation for January 1945

Stations	Drainage basins	Day of month																														Total
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Northern Division																																		
Albany	Grand				.01										.13			T.		.06		.26				T.				.40			0.86
Amity[2]	do	T.	T.	T.	.02		T.	T.	.05	.03					T.	.12			.13	.01	.01	.16	.14			.11	T.		T.	.04	.03		0.85
Auxvasse	Missouri	T.					T.		.18						.24	.01				.35		.22				.17		T.		T.	T.		1.17
Bethany	Grand																																....
Bowling Green[2]	Mississippi									.10						.35				*	.10		.35								.04		§0.94
Brookfield[2]	Grand	T.								.61						.16						T.	.30							T.	.07		1.14
Browning, 3 mi. NE	do	T.	T.		.02	T.	.03		.32		T.				.23	.15	T.	T.		.07		.50	T.			.02	T.	.02	T.	.26			1.62
Brunswick[2]	do	.02					.03	T.		.12						.11				.04		T.	.33			.02		T.		T.	.05	.01	0.73
Canton, Lock No. 20[2]	Mississippi	T.			.01		.01		*	.26						.36	T.				T.		.47							.12	.05		1.28
Centralia[2]	do	.03							T.	.14						.19				.29	.04		.21			.02					.01		0.93
Chillicothe[2] (A)	Grand	T.	T.		T.		.02	T.	T.	.18					T.	.12				.07		.43					.03		T.	.03	.02		0.90
Chillicothe[2] (B)	do	T.			.04		.02			.15						.06			T.	.01	T.	.02	.26			.03				.02	T.		0.61
Clifton Hill	Chariton																																....
Columbia[1, 5]	Missouri	.01	T.			T.	.01		.07						.21	T.			.04	.28		.27				.03	T.	T.	T.	.02	T.		0.94
Columbia, 9 mi. WNW	do						T.		.08						.16	T.				.29		.20	.03			.02		.02		T.	T.		0.80
Conception	do		T.		.03		T.		.05						.11				.06	.05		.16				.04			.02	.26			0.78
Edgerton	do								.15	T.					.06			.10		.05		.10				.25		T.			.06		§0.77
Edina[2]	Mississippi				.08		T.			.24						.75				T.			.45				T.	T.		.05	.05		1.62
Elsberry	do		T.				.05		*	.12					*	.25			*	.10		*	.30			T.				T.	.03		§0.85
Elsberry S. C. S.[2]	do		.01					.02		.24						.38				.10	T.		.25			T.				T.	.03		1.03
Farber[2], 1 mile N	do	.01					T.			.07						.27				.22			.24			T.				T.			0.81
Fayette	Missouri	.04					T.		.10						.12	.01			.20			.16	T.					.03	T.	T.	T.		0.66
Fulton[2]	do	.01	T.			T.	.02	T.		.09						.27				.28		.01	.25			.02			.01		.07	.01	1.04
Gallatin[2]	Grand		T.	T.	.04		T.	T.	.06	T.						.06			T.	.08	T.	T.	.25			T.			T.	.18	T.		0.67
Grant City	do		T.	.10	.03	T.	T.	T.	.03						.05			T.		.03		.45							T.	.08			§0.77
Hannibal[1] (A)	Mississippi	.04		T.			T.		.29						.52	T.				.01		.34								.23			1.43
Hannibal[2] (B)	do	T.	T.		T.					.18						.36	T.			T.	T.	T.	.30							.08	.11		1.03
Hermann[2]	Missouri	T.					T.	T.		.13						.35				.38	T.		.18			.04			.02	.03	.10		1.23
Kahoka[2]	Mississippi				.05					.12						.60							.38							.06			§1.21
Kansas City Airport[1, 5]	Missouri	T.	T.	T.		.01	T.	T.	T.						.02	T.	T.	.09	T.	.03	T.	.10	T.		T.	.03	T.	.10	T.	T.	T.		0.38
Kansas City University	do					T.		T.							.02			.09		.05		.14				.03		.09			T.		0.42
Kidder[2]	Grand	T.	.05		T.					.10						.07			.06	.03		.08	.11	.03		.09					.03		§0.65
King City	Missouri	.05	T.	T.	.09	T.	.03	.01	.17						.28			.17	.04			.40	T.			.22			.12	.15			1.73
Kirksville	Mississippi		T.		.07	T.			.35						.44	.12		T.		T.		.27	.04					T.	T.	.09	T.		1.38
Knoxvillle[3]	Missouri	T.	T.			T.	T.	T.	T.						.12	T.	T.	T.	T.	.09	T.	.15	T.			.03		T.	T.	.02	T.		0.41
LaBelle[2]	Mississippi				T.				T.	.35						.50							.40							.10	.10		§1.45
Lawson	Missouri	T.					.04		.02						.17			.07	.02	.06		.18				.06		.01		.02	.02		0.67
Linneus[2]	Grand		T.			T.				.20						T.						*	.30										0.50
Louisiana[2] (A)	Mississippi							T.		.30						.40				.04			.20							T.	T.		0.94
Louisiana[2] (B)	do	T.	.01	T.				.01		.40						.36				.07		T.	.23							T.	.03		1.11
Lucerne[2]	Grand				.04		T.			.18						.30			T.	.03			.28							.03	.03		§0.89
Macon[2]	Chariton	T.		T.	T.					.28						.19				T.	.03		.28			T.				.03	.04		0.85
Madison[2]	Mississippi									.31					.18					.12			.38							.05			§1.04
Martinsburg[2]	Missouri	T.				T.	T.	T.		.15						.28	T.			.30	.03	T.	.28			.03			T.	T.	T.	T.	1.07
Maryville	do	T.	T.	*	.05	T.	T.		.05						.06			T.	.02	T.		.18				.10			T.	.22			0.68
Memphis[2]	Mississippi	T.		T.	.10	T.	T.		T.							.60			T.		T.		.10							.01	.10		§0.91
Mexico[2]	do						T.	T.		.21						.32				.33			.28			T.					T.		1.14
Milan[2]	Grand	T.		T.	.03		T.			.18						.10				.05		*	.50							T.	.10	T.	§0.96
Moberly[2], 3½ mi. NE	Mississippi		T.						T.	.25						.13				.04	T.		.11			T.				T.	.04		0.57
Monroe City	do								.62						.22					.08		.28								.40			1.60
New Florence[3, 5], 1 mi SE	Missouri	T.	T.			T.	T.	T.	.11				T.		.26	T.			.10	.17		.24				T.		T.	T.	.06	T.		0.94
Oregon	do	T.	T.	T.	.05				.05						.15				T.	T.		.32	T.			.10		T.		.18			0.85
Palmyra	Mississippi	T.			T.		T.		.23						.37	T.				.08		*	.42			T.				*	.18		1.28
Paris[2]	do	T.	T.	T.						.29						.26				.13	.03	T.	.26			T.					.03		1.00
Perry, 1 mile E	do								.22						.20	.05				.23		.12	.20										1.02
Philadelphia[2]	do	T.			T.					.33						.30					T.		.38							.07	.05		1.13
St. Charles[2] (A)	Missouri									.15						*	*			*	*	*	.90						.08		.10	.08	§1.26
St. Charles[2] (B)	do	T.	T.							.24						.37	T.	T.		.18	.20	T.	.06			T.	T.		.03		.09		1.17
St. Joseph[1, 5]	do	T.	T.	T.		T.	T.		.05						.08			.07		.04	.04	.18				.07			T.	.06	T.		0.59
Saverton, Lock No. 22[2]	Mississippi	.04	T.	T.	T.		T.	.01		.35						.55	T.			.02	T.	.01	.25			.01	T.			.12	.13		1.49
Shelbina	do				T.	T.	T.		*	.48					.28	T.			T.	T.	T.	*	.34							*	.14		1.24
Shelbyville[2]	do									.34						.28							.32							.22			1.16
Steffenville	do	T.			T.	.01			.26						.27	.05						.26	.14							.10	.01		1.10
Tarkio[3]	Missouri	T.	T.	.01		T.		T.	.01						.02			T.	T.	T.		.15				T.		T.	.08	.07			0.34
Trenton[2]	Grand			T.	.03	.01	T.			.23						.16				.04		.06	.24			T.	T.			.20	.04	T.	1.01
Troy[2]	Mississippi	T.	T.					T.		.15			T.			.27				.28	T.		.26			.01			T.		.03	T.	§1.00
Unionville[2]	Chariton				.06					.20						.38							.35							.03	.04		1.06
Vandalia	Mississippi	T.	T.				.02		.20	.04					.20	.02			.01	.20		.30				.03		T.		*	.05		§1.07
Warrenton	do	T.				T.	T.	T.	.07	.12					.28	T.				.45		T.	.09			T.		T.	T.	T.	.07		1.08
Keokuk, Iowa[1]	do	T.	T.	.04	T.	T.	T.		.10					T.	.23	.11				T.		.39						T.	T.	.01			0.88
Southwestern Division																																		
Altona[2]	Osage	T.					.08		T.										T.	T.			.18					*	.10	T.			0.36
Anderson[2], 1½ mi. SW	Neosho	T.		.50									T.						.04	.35		.04	.18						.30				1.41
Appleton City	Osage	.07	T.				.10		T.										T.	.13		T.	.25					T.	.10	T.			0.65
Ava Ranger Station[2]	White	T.	.01	.25																.50			.10						.25				§1.11
Bakersfield[2]	do																																....
Bolivar	Osage	.03	.08	.03			T.		T.				T.		T.					.38		.16	T.					T.	.18	.04			§0.90
Boouville[2] (A)	Missouri	T.					T.	T.								.10				.28			.13							T.			0.51
Boonville[2] (B)	do	.02	T.				.03	.01								.12				.32	T.	.01	.15			T.			T.		.02		0.68
Bradleyville	White	.10	.25	.35	T.											T.				.35	T.		T.						*	.30			1.35
Buffalo[2]	Osage		.05	.06										.03						.37			.18						.20	.02	.04		0.95
Butler[2]	do	T.		.02			.04		.01							.14				.13	*	.10	.15					.02	.10	.02			0.73
Caplinger Mills[2]	do	T.	T.	.08						T.								T.	T.	.29	T.	.02	.14						.20	T.	.11		§0.84
Carthage	Neosho		.23										.03						.10	.29		.09							.18				0.92
Cassville	White		.06	.14																.31			.05						.23				0.79
Clinton[3]	Osage	T.	T.		T.	.01	.06		T.						.05				.02	.16	.06	.27				T.		.07	.03	T.			0.73
Concordia	Missouri						T.	.04							*	.05				.09		*	.31			T.		T.	T.		.04		0.53
Crocker	Osage	.03	.05											.04	.07	T.				.48		.08							.21	.07			§1.03
Eldon	Missouri								.03						.04					.35		.20						T.		.03			0.65
Eldorado Springs	Osage	T.	.08					T.	T.	T.			T.		T.				T.	.18		.22						T.	.23	.08			§0.79
Elijah[2]	White			.18										.05		.05				.53	.02		.02						.22	.02			1.09
Fort Leonard Wood[2]	Gasconade	.03																	T.	.20		.10	.20							.28	.05		§0.86
Galena[2]	White		.03		.16									T.						.28			.02						.35	.02			0.86
Granby[2]	do			.28																		.82	.12						*	.25			0.97
Hailey	do		.20	.06															.32	.07									.23				§0.88
Harrisonville[2]	Osage		T.							T.						.02				T.		*	.16						.05				0.23
Jefferson City[2]	Missouri	*	.05	T.						.06						.12				.21	.15		.28			T.		.10					0.97
Joplin[1]	Neosho		.23												T.				.32	.11								.10	.12	.01			0.89

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Stations	Drainage-basins	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Total
Southwestern Division—	*Concluded*																																
Lakeside[2, 5]	Osage	.02	T.	.03			.02	T.		T.			T.	T.		.05	T.		T.	.35	T.	.02	.20			T.			.11	.02	.04		0.86
Lamar[2]	Neosho			.25																.20			.20						.20				0.85
Lebanon	Osage		*.10*	.02					*T.*	T.			.05					T.		.34		.06						T.	.17	.05	T.		§0.79
Lexington[2]	Missouri	*T.*														.05				*	.18		.25			.03			*T.*	*T.*			0.51
Lockwood	Osage		.18						T.				T.							.28		.20							.30	*T.*			0.96
Macomb[2]	White																																....
Marshall	White								T.						*	.02				1.27		*	.20					.02					1.51
Marshfield[2]	do		*	*.10*					T.											.43		*T.*							*.18*	.03			§0.74
Mountain Grove[2]	Neosho	T.		.10										.02		.10				.48			T.						.18	.06			0.94
Mount Vernon[2]	do	*T.*	*	.29																.08			.34						.30				1.01
Neosho	Osage		.19				.04						.03		T.				.02	.28		.14	.02					*T.*	.32	.02			1.06
Nevada	Missouri		.09	T.		T.	.05	T.	T.										T.	.09		.22						T.	.23	.10			0.78
Osceola[2]	Osage			.05			.07						.04			.05			.04	.26		.03	.16						*	*	.15		0.85
Ozark	White																																....
Ozark Beach[2]	do			.27																.62			.03						.33	.06			1.31
Pierce City[2]	Neosho		T.	.35									.01							.26		*	.16						*	.36			1.14
Pineview Lookout	White																																....
Pleasant Hill[2]	Osage	.04								.01						.02	*T.*		.03	.02	.01	.05	.06			.04			.09		.02		0.39
Roby	Gasconade		.10	T.					.01	T			.03		.04				T.	.39	T.	T.						T.	.08	.03	T.		0.68
St. Thomas[2]. 2¼ mi SW	Osage									T.										.45			.22						.07	T.	T.		0.74
Saunders Lookout[2]	White		T.	.30												T.			T.	.45			.07						.21	.02	.03		1.08
Sedalia	Missouri	.05					*T.*		.05						.02					.17		.19						.02	.05	*	.02		0.57
Seligman	Neosho		*	.30															*	.20		.05						.20	.40				1.15
Seymour[2] 3½ mi. NE	White		.02	.30										.10						.36									.20		*T.*		0.98
Shell Knob[2] 3 mi. SE	do		T.	.32																.32			T.						.40	T.			1.04
Siloam Sprgs Lookout[2]	do			.42															.40										.45				1.27
Springfield[1, 5] ½ mi. E	do	.01	.16	T.		T.	T.	T.	T.				T.		.03	T.			.32	.01	T.	.12	T.					.06	.17	T.	T.		0.88
Stover[2]	Missouri						*.04*			*.05*						.01				.24			.20						.08				§0.62
Swan Tower Lookout[2]	White			.28																.31			.08						.20	*T.*			0.87
Sweet Springs	Missouri	*.12*					.01		.02						.04	T.				.15		.22	.03					.01	.03	.03			§0.66
Tecumseh[2] ¼ mi. W	White			.20										.01		.03				.70			.08						.26	.08			1.36
Topaz[2]	do	*T.*		.27									*T.*							.50			.05						*	.30			1.12
Vanzant[2] 3¾ mi. SE	do		T.	.28																.58			.06						.33	.02			1.27
Warrensburg	Missouri	.01							.02						.02					T.		.19				T.		T.	.03	T.			0.27
Warsaw[2] (A)	Osage	T.	*T.*				T.		*T.*	.04					T.				.04	.25			.22					*T.*	*.10*	.12	*T.*		§0.77
Warsaw[2] (B)	do						.05			*.05*						.11				.27			.20				T.		.09		*T.*		§0.77
Wasola[2]	White		*.22*										T.							.65			.01						.32	.05			1.25
Waverly[2]	Missouri	T.					T.									T				.40	T.	.20	.40			T.			T.	T.			1.00
Wilderness Lookout[2]	White			.20																.38			.05						*	.40			1.03
Southeastern Division																																	
Advance[3] ¼ mile W	St. Francis	T.	.04	T.			.19	.05	.03	T.			T.		.11				.32	.33		T.				T.		T.	.08	T.		T.	1.15
Alton(1) 10 miles SE	Black		.02	.10			.03	.06					.11			.10			.01	.40			T.						.22				1.05
Alton(2)[2] 7 miles NE	do			.20				.03		T.				.05		.10				.53	.02								.10	.10			1.13
Annapolis[2] (1)	St. Francis			*.15*										.20		.30				.32									.09	.30			§1.36
Annapolis[2] (2) 7 mi. W	Black		T.	.14				T.		T.				.16		.26				.48	T.		.01						.20	.05	**T.**		1.30
Arcadia[2]	St. Francis			.10						T.										.30						T.			.24	*T.*			0.64
Banner[2]	Black									T.				.13		.23				.41			.05						.20	.02			1.04
Belleview	Meramec	T.		.04				T.		.03			.21	T.	.16					.41	.03			T.				*	.31	T.			1.19
Bernie[2]	St. Francis			*.26*			.65				T.			.05		.11				.70	T							T.		.10			§1.87
Birch Tree[2] ½ mile E	Black		T.	*.30*			T.			T.				.03		.11				.51	.03		.01						.31	.07			§1.37
Black 9 miles NW	do		.03	.02					T.	.02			.04		.20				*	.38		.03						T.	.22	*	.04		0.98
Bloomfield[2]	St. Francis			.13					.22											.53	.12	T.								.15			1.15
Bunker[2] 4 miles NW	Black			.14										.11						.49			.06						.24	.04			1.08
Campbell	St. Francis	T.	*.08*	*.03*			.15	1.07	.02	T.			.07	.01		.10				.61		.01	.02					.01	*.40*				§2.58
Cape Girardeau[2]	Mississippi	.18	T.	.10				.18	.03	.13			T.	.08		.22	.01			.57	T.		T.			T.	T.		.07	.15			1.72
Caruthersville[2]	do	.84		.06			.16	.47	.67	.05			*	.19						.35			.05						.15	.15			3.14
Centerville(1)[2]	Black			.09						.01				.13		.24				.59	.01		.07			.01			.15	.07	.01		1.38
Centerville(2)	do		.01	.16									T.	.15		.20				.52	T.		.06			T.			.14	.08	.01		1.33
Cook Station[2]	Meramec			*.12*						.02				.21		.12				*	.49		.06						*.30*		.02	T.	§1.34
Crane Mountain[2]	St. Francis			.13						.03				.11		.31				.51			.05			.02			.15	.02			1.33
Crystal City	Mississippi	.02	T.				T.		.01	.08					.24	.10				*	.20	T.							.15		.03		0.83
Cuba	Meramec	T.		.01		.01				.06			.01		.13	*T.*				.50									.20	*T.*	.01		0.93
Deering[2]	St. Francis	1.05		*.05*				.68	.73	.07				.06		.08				.60										*.20*			§3.52
De Soto[2]	Mississippi	*T.*	*.05*				T.			.08				T.		.23				.29	*T.*		.02			T.			.07	.05	.03		§0.82
Dexter[2]	St. Francis	.30		.10				.36	.16	.04		.01	.11			.22				.69	.03		.05				T.		.12	.07			2.26
Doniphan(1)	Black		.06	.15			.11	.13	T						.18					.21			.03						.20				1.07
Doniphan(2)	do		*.10*				.08	.22												1.11									.28				§1.79
East End[2]	Meramec			.05						.03				.10		.20				.40									.25	.03			1.06
Eastwood Lookout	Black			.25										.12		.07				.46	T.									.20			1.10
Ellington[2]	do	*T.*		*.40*											T.	.33				.60									*.20*				§1.53
Ellsinore Lookout[2]	do			.20					*T.*					.07		.16					.20									*.25*			§0.88
Farmington	St. Francis	T.	T.	.01			*T.*		*T.*	.03			.15		.17	T.				.68		.03				T.		.03	.18				1.28
Fisk[2]	do	.19	T.	.04			T.	.32	.16							.27				.21		T.	T.						.06	.48			1.73
Fredericktown[2]	do			.03				T.		.04				.10		.30				.63									.20	.05			1.35
Gerald[2]	Meramec	T		T.						.09						.24				.56	*T.*		.10			.03			.08	T.	T.		1.10
Greenville[2]	St. Francis	T.	*.10*	T.	T.			.04								.03				.08									T.	.08			§0.33
High Lookout[2]	Black																																....
Jackson	Mississippi	*T.*	*T.*	.07			.03	.09					.16		.23	.12				.82			.08						.23				1.83
Jefferson Barracks[2]	Mississippi	T.	*T.*							.10						.30				.35	.04		.03					T.		.05	.01		0.88
Jerome[2]	Gasconade			.16												.20				.60			*.09*						.30				§1.35
Koshkonong	Black		*T.*	.15			*T.*	*T.*		T.				.27		.06				.53		*T.*							.25	.06			1.32
Leeper[2]	do			.14				.06								.12				.40	.01		.01						.11	.12	.02		0.99
Licking 4 miles N	Gasconade	*T.*	*T.*	*T.*											*T.*					.54								*T.*	.10				0.64
Macedonia Lookout[2]	Black			.15			.14		.05					.08		.20				.70			.05							.21			1.58
Malden[3] 4 miles NNW	Mississippi	.01	.06	T.			.26	.68	.01				.08		.13				.44	.24	T.	.03				T.		.06	.14	T.	T.		2.14
Marble Hill	do		.10	.11			.03			.13					.14	.14				.51									.22				1.38
Meramec Park[2]	Meramec	.02	T.	T.			T.			.04			.02			.17				.21	T.		.03		T.				.13	T.	.02	T.	0.64
Morehouse	Mississippi	T	T.	.01			.09	.41		.07			.03		.21					.68									.16				1.66
Moselle[2]	Meramec	.01	T.	*T.*			.01		T	.20					.20				.50	.02			*.05*						.12	.10	.10		§1.31
New Madrid[2]	Mississippi	.40		.02			T.	.85	.50	T.			.10	.05		.05				.55	T.		.05						.05	.13			2.75
Oates Tower	Black		.25					T.		.03				.10			.15		.80				.06						.14	.14	.06		1.73
Owensville[2]	Gasconade	*.05*								.09						.25				.40	*T.*		.07						*.30*				§1.16
Pacific[2]	Meramec	*.02*	*T.*	*T.*						*.07*						*.25*				*.32*			*.05*			*.01*				*	.15		§0.87
Parma[2]	St. Francis	*T.*		*.20*			.14		.85	.17			.07	.06		.04				.70										*.30*			§2.53
Perryville	Mississippi		*.02*				.21	.03	.10	.20	.10		.38	.21	.28				.61									*	*.30*		*	*.30*	§2.74
Pilot Knob[2] 2 mi. NE	St. Francis			*.05*						*.02*			.13			.18				.32		.08							*.40*				§1.18
Poplar Bluff[2] (A)	Black	T.		.08				.40								.20				.43			T.						*	.32			1.43
Poplar Bluff[2] (B)	do	.07	T.	.10				.37	.03	T.				T.		.17				.42	T.		T.						.11	.06			1.33
Puxico[2]	St. Francis																																....
Qulin[2]	do	.23		*.07*			*T.*	.61	.25					*.06*						.70	T.									*.22*			§2.14
Reynolds[2]	Black			.17										.18	.19					.53				.07					.09				1.23
Richwoods[2]	Meramec	*T.*	*T.*				*T.*			.05						.16				.42			*T.*						.15	.02			0.80

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Stations	Drainage-basins	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Total
Southeastern Division —	*Concluded*																																
Rolla[2]	Meramec	T.	T.	T.	....	....	....	....	....	.10	....	....	.03	....	....	.11	....	....	....	.34	T.	....	T.	....	....	T.	....	....	.10	.05	T.	....	0.73
Round Spring[2]	Black	....	....	.16	....	..	....	....	....	....	....	....	....	.10	....	.10	....	....	....	.54	....	....	.08	....	....	....	....	....	*	*.20*	....	....	§1.18
St. Louis:																																	
City Office[1], [5]	Mississippi	T.	T.	....	....	....	T.	....	.18	T.	....	....	T.	....	.31	T.	....	....	T.	.40	....	.03	T.	....	....	.01	....	.02	.02	.05	T.	....	1.02
Airport[3], [5]	Missouri	T.	T.	....	....	....	T.	....	.19	T.	....	....	T.	....	.21	.06	....	....	T.	.33	....	.13	T.	....	....	.02	....	.03	T.	.13	T.	....	1.10
St. Louis Univ.[1], [5]	Mississippi	.05	T.	....	....	....	T.	....	.10	....	....	....	T.	....	.34	.01	....	....	.04	.40	....	.04	T.	....	....	T.	....	.03	.01	.03	....	....	1.05
Washington Univ.[2]	...do	....	....	....	....	....	....	.03	....	.14	....	....	....	....	....	.34	....	....	....	.34	.50	....	.10	....	....	.01	....	....	.03	....	.04	....	1.53
Salem	Meramec	*T.*	.08	....	....	....	....	....	.05	....	....	....	.09	....	.14	....	....	....	T.	.45	....	T.	.07	....	....	....	....	T.	.16	.04	....	....	1.08
Sikeston[2]	Mississippi	.07	T.	*.20*	....	....	*	.50	.15	.15	....	....	.05	....	....	.28	....	....	....	.73	.02	....	.05	....	....	T.	....	....	.06	.24	....	....	§2.50
Steelville[2] ...2½ mi. NE	Meramec	.20	.01	*T.*	....	....	.01	....	....	.10	....	....	*	.10	....	.20	....	....	....	.50	....	....	.02	....	....	.02	....	....	*	.19	....	....	1.35
Summersville	Black	.11	.15	*T.*	....	....	....	....	T.	....	....	....	T.	....	.20	....	....	....	....	.51	....	.07	....	....	....	....	....	*T.*	.24	....	....	....	1.28
Union ...1½ mi. SE	Meramec	.01	....	....	....	....	....	....	*	.03	....	....	....	....	.29	....	....	....	....	.46	....	*	.06	....	....	.02	....	*	*.15*	.01	*T.*	....	§1.03
Valley Park[2]	...do	T.	....	T.	....	....	....	T.	....	*.15*	....	....	....	....	....	.34	T.	....	....	.29	....	....	.08	....	....	T.	....	....	*.10*	T.	*.02*	....	§0.98
Van Buren[2]	Black	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Vichy[3] ...2 miles NW	Meramec	.02	T.	T.	....	....	.02	T.	T.	....	....	....	.02	....	.11	.02	T.	....	.20	.13	....	.12	T.	....	....	T.	....	.05	.17	.12	T.	....	0.98
Wappapello Dam[2]	St. Francis	.06	....	.17	....	....	....	.20	T.	.01	....	....	T.	.08	....	.12	....	....	....	.52	....	....	T.	....	....	T.	....	....	.10	.03	T.	....	1.29
Weingarten	Mississippi	*T.*	....	....	....	....	....	....	....	....	....	....	.15	....	.25	*T.*	....	....	....	.40	....	....	....	....	....	....	....	*T.*	.20	....	....	....	1.00
West Plains[3]	Black	T.	.19	....	....	....	T.	....	T.	....	....	....	T.	....	.06	....	....	....	.32	.02	....	T.	....	....	....	....	....	.14	.14	....	T.	....	0.87
Williamsville[2]	...do	.04	....	.14	....	....	....	.10	....	.01	....	....	....	.15	....	.12	....	....	....	.58	.02	....	.03	....	....	.03	....	....	.15	.09	.01	....	1.47
Willow Springs .500 ft E	White	*T.*	.18	.06	....	....	....	....	T.	....	....	....	.03	....	.12	....	....	....	.05	.51	....	.07	....	....	....	....	....	.06	.26	....	....	....	1.34
Winona Ranger Sta.[2]	Black	T.	.01	*.35*	*.10*	*T.*	....	....	....	T.	....	....	....	T.	.51	....	....	....	....	.41	T.	....	....	....	....	....	....	....	*	.30	....	....	§1.68
Zalma[2]	Mississippi	.07	*T.*	*.11*	....	....	....	.15	....	.05	....	....	....	.09	....	.25	....	....	....	.55	.01	....	.05	....	....	....	....	....	*.20*	*T.*	....	....	§1.53
Cairo, Ill.[1], [5]	...do	.03	.03	.01	....	....	.13	.38	.09	....	....	....	.12	....	.25	.02	....	....	.27	.48	....	.05	....	....	....	T.	....	.03	.24	....	T.	....	2.13

Except as otherwise indicated, amounts are for 24 hours ending late in afternoon. [1] Midnight to midnight. [2] Measured in the morning; for the preceding 24 hours. [3] Data for 24 hours ending 12:30 A. M. (C. S. T.) of following day. [5] Recording gage. T. Trace or 0.005 inch or less. * Included in next measurement. // Wind-shield on gage. Italics data interpolated. § Partly interpolated. (A) Record from cooperative station gage. (B) Record from river station gage. ‡ Received too late to be included in means and extremes.

Daily Evaporation (inches), Mean Temperature (F°), and Wind Movement (miles) for January 1945

(See precipitation data in daily precipitation table)

Station	Data	Day of month																															Monthly
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Columbia (Univ. of Mo. Hort. Exp. Sta. 9 mi. WNW.)	Evaporation	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.....
	Mean temperature	8	12	27	24	28	28	26	31	14	22	34	43	39	41	34	28	29	36	35	30	32	33	36	36	38	30	30	25	28	18	12	28.6
	Wind movement	250	57	129	84	58	66	81	132	164	105	85	106	42	59	197	43	94	57	59	7	16	127	123	35	60	31	34	130	107	160	47	2,745
Lakeside (Osage Dam)	Evaporation	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.....
	Mean temperature	16	19	26	30	36	32	30	38	18	24	38	38	42	36	32	30	32	36	36	31	33	40	38	38	42	32	29	28	26	21	17	31.0
	Wind movement	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
St. Louis (Washington University)	Evaporation	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.....
	Mean temperature	18	16	26	26	26	28	28	30	9	14	32	35	38	33	30	26	27	34	33	33	34	36	37	36	38	33	30	26	24	15	15	27.8
	Wind movement	84	44	41	52	27	28	83	33	73	1	84	59	38	32	41	56	37	35	50	72	34	27	45	48	28	39	30	51	42	49	34	1,347

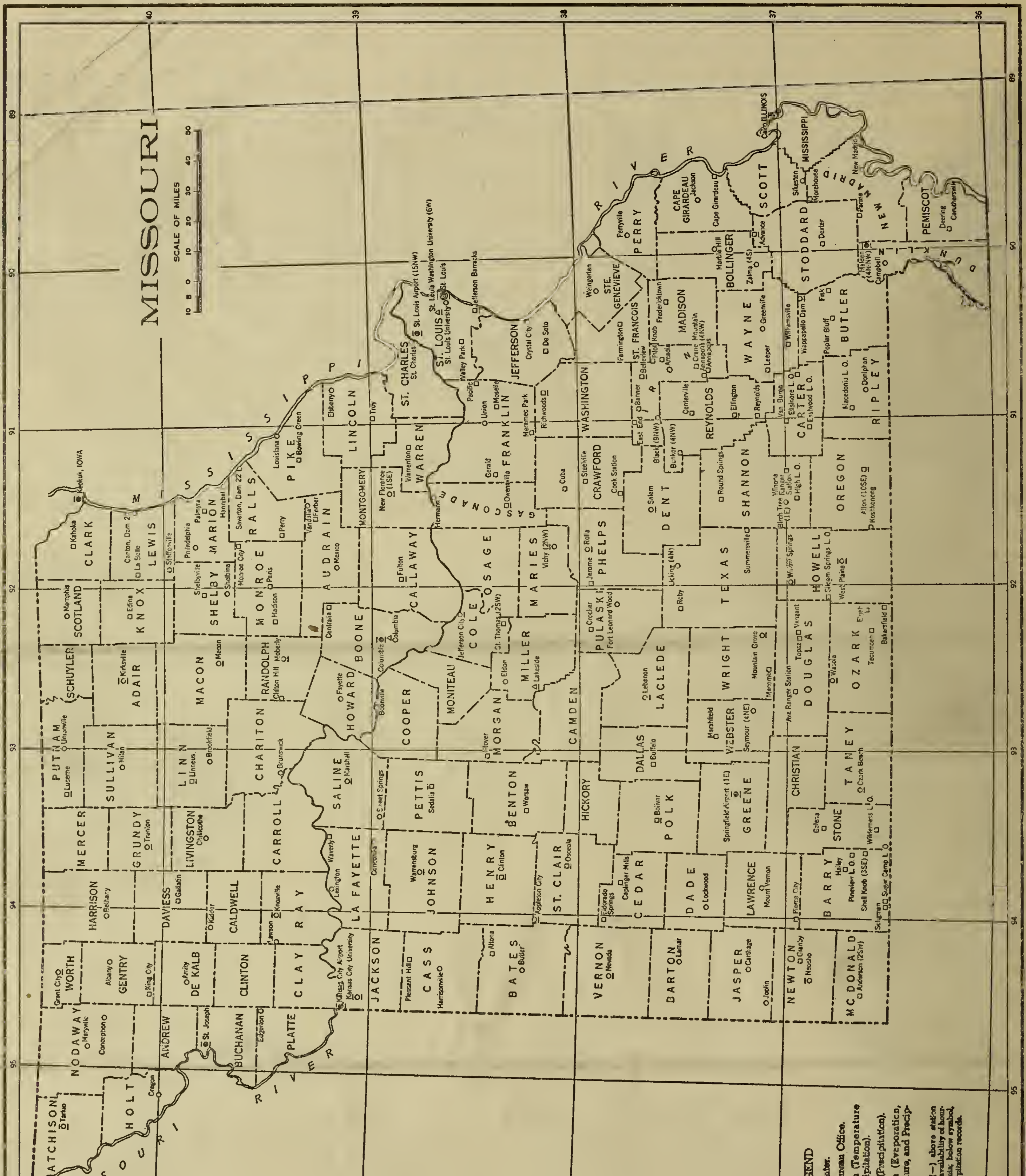
Observations taken at 8:00 a. m. except at 7:30 a. m. at Lakeside. For Lakeside and St. Louis (Washington University) descriptions see April 1932 and August 1938 reports, respectively. * Included in next measurement.

Daily Temperatures for January 1945

Stations		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Northern Division																																	
Brunswick /	Maximum	12	25	35	34	32	26	33	35	24	28	53	45	51	40	30	29	34	41	40	33	34	39	48	44	41	32	32	33	32	20	20	34.0
	Minimum	11	4	10	11	11	22	22	24	2	0	17	18	28	27	29	25	25	27	31	29	29	28	22	22	27	29	26	21	20	8	6	19.7
Chillicothe /	Maximum	11	22	30	33	31	24	34	34	27	29	51	44	49	37	30	28	34	39	38	35	32	36	49	39	42	31	31	33	30	21	17	32.9
	Minimum	1	1	10	6	6	19	19	23	−2	−2	15	17	27	27	27	24	24	27	29	29	29	28	19	21	24	*24*	24	20	22	5	1	17.5
Columbia	Maximum	19	26	38	33	34	29	29	37	19	30	54	49	55	40	31	33	35	42	36	34	34	40	50	47	47	34	33	29	34	21	21	35.3
	Minimum	6	8	22	15	24	24	24	5	0	19	19	32	28	30	28	25	26	32	29	26	30	28	23	27	28	26	25	20	10	8	6	21.1
Fayette	Maximum	25	20	37	34	34	32	28	34	21	30	55	50	53	43	38	31	35	38	41	38	33	39	51	46	48	38	32	30	35	24	20	35.9
	Minimum	3	3	17	10	20	22	22	21	−1	14	21	34	25	30	27	23	25	31	31	24	29	28	21	27	29	27	28	20	20	7	5	20.7
Grant City	Maximum	17	21	21	30	27	24	28	32	15	32	45	44	45	41	31	25	30	35	34	35	32	35	44	39	41	35	40	35	32	17	16	31.5
	Minimum	−3	−2	15	2	14	12	20	4	−3	10	25	28	24	31	24	20	21	25	29	27	26	25	12	23	24	22	20	19	14	1	−3	16.3
Hannibal	Maximum	17	24	30	28	28	26	29	31	10	22	45	45	44	39	32	29	32	40	34	32	32	37	45	40	38	31	32	24	23	18	16	30.7
	Minimum	−1	−2	17	6	17	18	21	3	−8	5	6	29	29	30	21	13	19	29	29	26	27	25	17	23	24	21	23	13	12	0	−1	15.8
Kansas City Airport.	Maximum	21	26	38	35	37	33	33	42	28	41	58	52	56	48	31	30	37	38	38	36	33	40	54	46	43	34	34	35	35	25	26	37.5
	Minimum	4	13	20	15	27	25	26	10	8	26	26	32	28	31	27	25	30	31	33	31	31	31	28	28	32	30	26	25	14	14	10	23.8
Kirksville	Maximum	23	19	26	28	26	24	27	31	12	23	44	44	43	42	32	27	32	37	34	34	30	34	43	40	36	32	30	26	25	18	14	30.2
	Minimum	−1	−1	17	5	5	9	19	11	−8	5	11	32	26	30	27	15	17	29	30	27	26	25	17	22	19	26	25	14	14	4	0	16.0
Lawson	Maximum	22	24	34	36	34	34	28	36	21	38	56	50	52	44	36	27	34	38	38	34	33	36	50	47	40	35	31	35	32	21	23	35.5
	Minimum	1	4	17	9	25	21	22	12	3	18	20	30	29	30	27	23	25	25	29	32	29	29	22	26	28	30	26	21	19	7	3	20.7
Louisiana /	Maximum	10	27	35	30	30	24	30	32	18	21	46	42	46	36	34	30	34	40	36	36	33	33	46	41	44	34	29	25	23	18	15	31.5
	Minimum	8	2	7	8	8	21	23	23	−6	−4	1	11	27	27	31	16	19	21	31	27	27	29	16	21	24	24	27	20	11	6	0	16.3
Macon /	Maximum	9	24	30	31	28	24	31	32	23	27	49	41	47	34	31	31	32	40	36	32	31	37	47	41	39	31	30	29	26	18	19	31.6
	Minimum	7	0	6	5	6	17	18	23	−9	−9	10	12	26	28	29	22	22	24	29	28	27	27	18	19	24	27	26	15	16	2	0	16.0
Maryville	Maximum	18	24	24	32	29	27	28	32	17	30	48	44	47	40	33	25	30	35	36	34	30	35	45	41	41	36	31	34	30	19	17	32.0
	Minimum	−5	−2	13	−1	16	14	20	4	−3	13	18	27	27	27	23	15	18	27	28	28	25	22	15	22	25	22	24	17	9	−5	−6	15.4
Mexico /	Maximum	11	31	36	34	31	34	30	34	24	27	50	54	52	39	31	34	34	40	38	34	34	39	47	41	42	34	32	29	33	20	20	34.5
	Minimum	5	4	11	11	11	22	23	22	−5	−5	12	15	27	27	28	24	23	25	31	25	27	28	19	20	25	26	25	18	18	7	4	17.8
Moberly /	Maximum	10	25	33	30	29	25	31	31	23	27	48	43	48	34	29	30	32	41	37	33	32	37	47	43	42	31	31	29	29	18	18	32.1
	Minimum	2	1	10	8	11	19	21	25	−7	−6	8	18	25	28	28	22	22	26	31	27	27	27	20	24	25	26	26	17	17	3	0	17.1
Oregon	Maximum	24	27	28	37	32	31	30	30	24	40	52	50	52	47	39	28	32	36	37	35	34	37	47	44	42	38	32	36	34	20	17	35.2
	Minimum	0	5	20	7	22	19	22	8	2	20	24	31	32	33	25	22	25	29	30	30	27	24	20	26	29	26	23	20	12	5	0	19.9
St. Charles /	Maximum	17	24	39	35	35	32	30	33	18	29	50	54	45	37	32	32	32	40	34	34	35	37	52	47	45	42	35	32	34	22	25	35.1
	Minimum	17	7	7	16	16	24	25	26	−2	−2	8	12	26	26	31	20	20	26	30	29	28	31	24	23	27	25	25	21	17	5	4	19.1
St. Joseph	Maximum	19	27	32	37	33	27	32	38	25	38	55	51	52	43	29	29	34	36	37	35	32	37	49	48	42	34	32	36	30	19	22	35.1
	Minimum	3	10	13	11	25	21	24	7	5	25	25	22	32	29	26	25	29	30	31	30	28	28	24	29	31	27	26	25	11	10	7	21.9
Trenton	Maximum	30	22	26	31	31	30	32	33	21	31	48	44	48	42	34	28	33	38	37	35	33	41	47	43	40	40	34	33	30	21	18	34.0
	Minimum	0	11	15	0	20	17	22	10	−4	11	13	30	26	31	28	22	22	27	32	27	29	28	20	25	27	25	27	20	21	2	−2	18.8
Unionville /	Maximum	9	20	25	28	23	22	30	31	20	30	44	44	40	43	30	30	32	42	38	35	35	38	47	40	39	30	32	27	21	20	19	31.1
	Minimum	0	−5	−2	−2	−1	12	11	19	−10	−5	8	10	25	25	25	18	15	20	25	26	25	24	13	13	19	22	23	13	12	0	−4	12.1
Warrenton	Maximum	34	22	40	33	33	32	31	34	28	27	50	50	53	52	38	34	34	43	37	39	37	40	50	50	45	45	32	33	36	30	22	37.5
	Minimum	7	4	19	12	18	24	19	21	−5	−8	−7	40	25	29	29	20	22	29	31	23	25	29	19	26	25	22	23	19	14	8	0	18.1
Keokuk, Iowa.	Maximum	15	21	26	29	24	24	27	32	12	23	48	37	40	38	30	26	31	38	34	31	30	35	41	38	36	34	29	22	22	14	13	29.0
	Minimum	−2	−4	12	5	14	14	22	−2	−8	6	11	31	30	30	22	10	22	31	30	28	27	23	14	22	19	22	17	10	10	1	0	15.1
Southwestern Division																																	
Clinton	Maximum	23	25	38	37	38	35	32	42	26	42	59	54	56	49	34	34	43	41	38	39	39	46	54	53	49	34	34	35	33	31	27	39.4
	Minimum	7	12	20	18	28	27	26	11	8	22	22	32	27	31	27	26	29	32	33	31	31	27	24	27	28	28	25	23	14	11	10	23.1
Eldon	Maximum	30	22	39	34	48	38	36	46	27	36	60	64	59	49	37	30	37	45	36	36	35	45	53	51	50	46	33	33	35	31	24	40.2
	Minimum	7	7	21	20	22	25	25	27	3	16	16	42	25	32	30	25	24	32	32	26	28	31	24	30	31	27	29	31	18	7	8	23.3
Harrisonville /	Maximum	15	25	36	35	36	31	36	41	28	43	58	55	57	50	34	33	39	41	39	40	33	44	55	49	46	34	35	37	38	30	28	38.7
	Minimum	3	3	13	11	11	27	19	26	4	8	19	25	28	29	28	24	24	29	30	30	29	19	22	24	28	26	28	22	21	9	8	20.2
Jefferson City /	Maximum	13	24	39	36	42	30	34	42	28	35	56	57	58	42	33	33	35	41	37	34	35	44	51	50	53	39	34	34	33	24	25	37.8
	Minimum	13	8	13	15	15	27	26	26	−2	−2	18	18	26	26	30	27	25	26	32	28	28	31	25	25	27	27	27	22	19	8	7	20.7
Joplin	Maximum	26	25	33	37	42	45	33	47	33	49	61	59	63	57	43	42	45	42	40	40	41	46	53	59	50	51	37	32	37	31	28	42.8
	Minimum	13	16	25	29	31	32	30	17	12	29	34	43	34	37	27	25	33	34	35	37	36	32	28	34	37	31	32	24	20	13	15	28.2
Lamar /	Maximum	23	26	35	38	40	43	39	46	33	51	62	60	62	53	37	37	45	44	40	41	41	48	54	57	50	51	39	39	36	34	32	43.1
	Minimum	19	11	15	22	24	29	27	27	10	9	22	32	24	25	29	25	24	30	31	33	34	28	22	22	25	23	22	21	15	4	4	22.2
Lebanon	Maximum	30	21	35	40	47	46	37	48	33	44	54	55	59	57	48	34	41	43	42	39	40	44	52	63	59	56	45	32	36	31	27	43.2
	Minimum	8	4	19	23	23	30	26	26	5	19	23	43	28	31	28	24	23	30	31	28	31	30	21	27	32	24	27	20	14	1	0	22.5
Lexington /	Maximum	21	24	36	36	36	*28*	36	*39*	*26*	41	57	54	57	48	*32*	34	38	42	38	35	35	42	53	48	45	34	34	37	37	26	..	§^{a}38.2
	Minimum	5	5	18	13	*11*	23	*20*	*26*	3	7	22	24	30	33	29	25	27	29	32	29	29	31	26	27	31	29	31	22	24	14	7	§22.0
Marshall	Maximum	..	21	36	34	35	34	35	40	23	32	58	56	53	52	37	29	36	42	40	38	..	39	51	50	45	46	32	..	34	29	23	^{c}38.6
	Minimum	..	4	20	12	25	23	22	23	2	18	19	34	27	34	28	25	25	31	32	29	..	29	25	29	31	28	29	..	29	10	6	^{c}23.2
Mountain Grove	Maximum	31	18	31	40	41	43	41	47	34	45	51	55	59	57	43	32	38	40	39	38	38	41	51	57	56	51	50	34	36	34	30	42.0
	Minimum	10	7	16	27	21	35	27	26	5	19	22	44	28	32	27	24	23	28	31	30	32	30	22	30	34	27	28	20	14	7	7	23.6
Neosho	Maximum	30	27	35	41	40	46	46	46	35	50	61	58	63	60	52	42	46	45	43	42	43	45	53	61	59	53	52	38	43	35	34	45.9
	Minimum	19	15	22	30	23	37	30	28	12	26	25	51	25	27	30	17	32	34	33	38	35	31	20	26	35	22	32	24	13	8	14	26.3
Nevada	Maximum	28	27	37	36	36	38	32	45	32	48	60	57	62	54	54	36	45	45	43	41	41	48	57	55	51	43	38	37	32	32	31	42.6
	Minimum	10	13	12	25	28	32	28	26	10	23	27	43	26	30	30	26	29	33	34	35	34	31	22	25	32	25	30	24	18	0	3	24.6
Sedalia	Maximum	28	22	38	36	40	38	28	42	24	34	58	54	54	53	46	30	39	42	40	36	38	42	52	52	47	41	34	34	35	30	23	39.0
	Minimum	4	6	20	13	25	25	23	23	4	19	21	34	27	31	27	25	26	32	32	28	29	30	24	27	30	25	30	21	22	9	7	22.5
Springfield ..½ mile E	Maximum	24	23	32	36	41	48	31	50	28	45	56	57	62	47	37	34	39	41	37	41	41	43	51	55	53	50	35	29	34	27	26	40.4
	Minimum	10	12	23	25	28	30	27	12	7	23	27	34	28	31	25	23	26	30	32	33	34	30	24	29	31	26	29	17	13	6	8	23.6
Warrensburg	Maximum	28	22	37	34	36	36	30	44	23	37	58	58	55	50	45	30	40	42	42	38	36	43	53	54	44	42	34	35	36	32	27	39.4
	Minimum	5	9	19	9	26	25	24	23	6	19	22	36	30	33	28	24	26	30	32	29	29	30	24	..	30	31	30	22	23	11	9	^{a}23.1
Southeastern Division																																	
Arcadia /	Maximum	30	25	35	35	50	40	37	38	20	39	50	57	60	41	34	40	37	40	40	40	41	44	60	60	64	55	35	32	39	32	29	41.3
	Minimum	19	8	10	24	22	21	29	27	5	2	9	15	25	25	27	25	19	22	29	31	32	32	25	24	25	29	24	24	2	4	5	20.0
Birch Tree .. ½ mile E	Maximum	32	17	35	44	49	42	..	44	38	48	50	59	57	49	42	33	35	40	38	38	41	41	53	59	61	52	36	33	38	33	31	^{a}42.3
	Minimum	13	10	17	30	14	29	..	27	8	15	18	43	24	25	30	22	19	29	32	33	34	34	20	32	29	24	29	23	0	13	5	^{a}22.7
Caruthersville /	Maximum	33	30	42	43	52	47	38	44	26	48	52	53	54	49	39	39	36	46	42	43	51	44	54	55	65	65	45	39	39	36	32	44.5
	Minimum	27	14	16	30	24	26	36	30	21	16	20	27	32	29	30	30	27	27	33	35	34	36	27	26	29	32	32	32	13	15	18	26.6
Crystal City	Maximum	35	24	39	39	40	36	35	39	36	35	48	55	54	44	39	36	34	39	38	38	40	41	54	53	52	51	43	31	34	34	26	40.1
	Minimum	11	8	18	22	15	22	26	27	0	11	14	42	22	26	30	22	21	29	31	29	30	31	21	26	25	24	23	21	0	5	0	20.4
Doniphan	Maximum	38	21	42	46	49	47	42	45	43	46	51	56	56	50	42	40	34	40	42	47	47	46	57	58	64	60	44	40	41	36	35	45.3
	Minimum	18	9	19	22	16	40	34	30	11	16	20	44	24	23	30	28	22	31	36	35	35	35	19	26	28	30	30	27	6	19	10	24.9
Farmington	Maximum	33	23	36	34	44	42	36	35	35	38	46	49	52	48	40	35	34	40	38	34	41	40	54	52	54	48	42	31	39	36	23	39.7
	Minimum	11	8	18	23	20	32	27	27	1	13	16	40	26	31	30	24	22	30	32	29	32	31	24	30	29	27	26	21	6	7	6	22.5
Jackson	Maximum	37	37	37	36	45	43	41	41	35	39	45	47	47	48	38	34	35	40	41	48	47	45	53	53	54	53	46	34	36	34	28	41.8
	Minimum	18	10	19	24	17	33	30	28	6	15	17	37	27	26	31	26	22	29	34	32	33	33	24	24	28	29	27	24	0	14	7	23.4
Poplar Bluff	Maximum	36	24	40	41	51	40	40	42	42	52	51	54	53	48	45	45	35	39	40	40	47	42	57	57	59	56	50	38	40	35	34	44.3
	Minimum	22	10	20	22	13	27	33	30	12	19	19	42	29	25	32	25	23	32	35	35	34	30	21	27	29	28	35	23	8	18	11	24.8
Rolla /	Maximum	17	27	38	34	44	41	31	45	29	39	53	52	58	44	30	31	39	42	34	34	37	43	52	50	56	46	32	29	32	29	25	38.5
	Minimum	16	7	12	22	22	28	25	26	1	3	19	25	25	27	29	24	23	25	32	24	25	30	23	25	31	26	28	20	15	5	6	20.9
St. Louis	Maximum	23	24	37	34	36	34	29	35	14	26	44	51	47	39	35	32	33	39	35	38	40	38	50	43	46	38	32	27	33	20	18	34.5
	Minimum	8	9	23	19	26	29	25	14	0	13	17	33	31	35	28	21	26	31	32	28	32	31	25	31	31	28	27	20	19	9	9	22.9
Salem	Maximum	31	21	33	39	42	43	39	43	33	42	52	50	57	48	41	34	39	42	40	35	40	41	53	54	59	51	40	32	39	32	24	40.9
	Minimum	11	7	18	24	21	32	27	26	3	16	19	41	22	32	30	24	22	30	32	25	32	31	23	28	27	26	25	21	7	5	0	22.2
Sikeston /	Maximum	29	39	46	47	48	42	35	38	40	47	49	51	54	51	37	38	38	41	39	42	47	41	52	51	56	60	38	33	31	33	33	42.8
	Minimum	20	11	20	22	26	32	32	29	14	11	20	27	35	35	28	28	23	18	34	33	34	34	25	25	29	30	29	32	10	11	21	25.1
Union ......1½ mi. SE	Maximum	36	22	39	34	33	34	32	36	34	29	52	56	58	55	48	39	33	42	39	37	41	42	51	48	52	42	42	32	36	33	28	41.0
	Minimum	14	7	14	20	14	25	24	26	1	9	11	42	22	26	30	24	22	30	31	26	29	31	20	26	25	25	25	20	10	7	2	21.0
West Plains	Maximum	28	22	37	45	49	41	38	53	30	51	52	60	58	51	39	34	36	38	39	39	41	43	55	59	62	54	38	32	40	33	33	42.9
	Minimum	10	12	22	22	17	31	30	21	10	17	21	31	25	25	29	21	24	30	33	33	35	34	25	30	30	26	31	9	6	14	10	23.0
Cairo, Ill.	Maximum	33	24	40	35	47	43	41	38	32	41	47	50	48	42	39	36	36	41	40	40	47	42	48	48	56	48	40	33	35	33	26	40.3
	Minimum	14	13	24	26	26	35	31	29	12	18	23	38	32	32	33	28	26	33	36	35	37	35	29	35	34	31	32	16	14	19	15	27.1

/ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs. ^{a}, ^{b}, ^{c}, etc., number of days missing, for example, ^{b} indicates two days missing. Italics data interpolated. § Partly interpolated.

WBO, St. Louis. 3-9-45—1000.


MISSOURI
SCALE OF MILES
10 5 0 10 20 30 40 50
LEGEND
● Section Center.
● Weather Bureau Office.
○ Substation (Temperature and Precipitation).
□ Substation (Precipitation).
△ Substation (Evaporation, Temperature, and Precipitation.)
NOTE.—Dash (—) above station symbol indicates availability of hourly temperature data; below symbol, autographic precipitation records.
MISSISSIPPI RIVER
MISSOURI RIVER
GASCONADE
ATCHISON
NODAWAY
WORTH
HARRISON
MERCER
PUTNAM
SCHUYLER
SCOTLAND
CLARK
HOLT
ANDREW
GENTRY
DAVIESS
GRUNDY
SULLIVAN
ADAIR
KNOX
LEWIS
BUCHANAN
DE KALB
CALDWELL
LIVINGSTON
LINN
MACON
SHELBY
MARION
PLATTE
CLINTON
RAY
CARROLL
CHARITON
RANDOLPH
MONROE
RALLS
PIKE
CLAY
JACKSON
LA FAYETTE
SALINE
HOWARD
BOONE
AUDRAIN
MONTGOMERY
LINCOLN
ST. CHARLES
ST. LOUIS
CASS
JOHNSON
PETTIS
COOPER
MONITEAU
MORGAN
COLE
CALLAWAY
OSAGE
GASCONADE
WARREN
FRANKLIN
JEFFERSON
BATES
HENRY
BENTON
MILLER
MARIES
CRAWFORD
WASHINGTON
STE. GENEVIEVE
PERRY
CAPE GIRARDEAU
VERNON
ST. CLAIR
HICKORY
CAMDEN
PULASKI
PHELPS
DENT
IRON
ST. FRANCOIS
MADISON
BOLLINGER
SCOTT
MISSISSIPPI
BARTON
CEDAR
POLK
DALLAS
LACLEDE
TEXAS
SHANNON
REYNOLDS
WAYNE
STODDARD
NEW MADRID
DADE
GREENE
WEBSTER
WRIGHT
CARTER
BUTLER
PEMISCOT
DUNKLIN
JASPER
LAWRENCE
CHRISTIAN
DOUGLAS
HOWELL
OREGON
RIPLEY
NEWTON
BARRY
STONE
TANEY
OZARK
MC DONALD
Keokuk, IOWA
Cairo, ILLINOIS
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C.E.J. 5-11-44

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Nat Hist

U. S. DEPARTMENT OF COMMERCE, WEATHER BUREAU

CLIMATOLOGICAL DATA

MISSOURI SECTION

H. F. WAHLGREN
ST. LOUIS, MO.

VOL. XLVIV FEBRUARY 1945 No. 2

PRICE: 5 CENTS A COPY; 25 CENTS A YEAR

APR 4 1945

GENERAL SUMMARY

February was mild, and wet over much of the State, and was the fourth consecutive month of the current winter with a marked deficiency in sunshine. Some farm work, including preparation for spring seeding, was accomplished during the second week, but otherwise farming activities continued at a standstill, because of wet soil, or freezing weather.

Although the average temperature for the State was 2.2° above normal, the current month averaged 2.4° colder than February one year ago and 3.6° colder than February 1943, both months being unusually mild. Thus, this is the third mild February in as many years. The extreme high temperature of 85° this month has been exceeded only three times in the past 58 years and equalled once, while the extreme low of 13° below zero has been equalled, or exceeded, numerous times. Cold periods occurred from the 1st to 3d, 17th to 20th, and the last three days of the month. An unusually mild period prevailed from the 9th to the 15th, inclusive, when daily temperature averages ranged from 10° to 20°, or more, warmer than normal. Another mild period occurred from the 21st to 25th. The 14th and 15th were the warmest days, as a rule, while the 1st was generally the coldest day of the month. Each of the three divisions of the State had temperature averages approximately 2.0° warmer than their respective normals; however, a few stations in each division had monthly averages slightly below normal.

Precipitation was rather frequent and very irregularly distributed, occurring as rain, sleet and snow. For the State, as a whole, it was the wettest February since 1908 and the third-wettest of record, since records began in 1888. Over the Northern Division the average was 0.19 inch less than normal, while the Southwestern and Southeastern Divisions averaged 2.17 inches and 3.84 inches, respectively, more than normal. In the Southeastern Division it was the wettest February in the 58 years that records are available, while for the Southwestern Division it was the third-wettest of record, for the same period of time. Monthly totals of more than ten inches occurred at one station in each of the latter two divisions, and 24-hour falls of approximately four inches occurred on the 25-26th at a few stations. Minor floods occurred in the Current and Black Rivers and in the Mississippi, below Cairo, during the last few days of the month; overflows continued into March.

Snowfall was particularly heavy in a belt extending across the central part of the State, in counties bordering the Missouri River, and adjacent counties, from Saline eastward to the Mississippi River. Monthly totals in this belt ranged from approximately 8 inches to as much as 15 inches. The bulk of these monthly totals fell during one storm, the 16-17th, and hampered rail and motor traffic for a short time. This snow melted within a few days, leaving the ground very muddy and waterlogged. Sleet and glaze were unusually frequent during February. The only damage reported by glaze occurred on the 21st at Maryville, where trees and wires suffered some damage and on the 26th at Koshkonong, where trees and wires were heavily damaged. A rather heavy fall of sleet occurred over much of the Southeastern Division on the 26-27th.

(Continued on page 11)

PRESSURE, WIND, HUMIDITY, AND SUNSHINE

Stations	Sea-level pressure, extremes-inches				Wind				Relative humidity §			Percentage of sunshine	Degree days
	Highest	Date	Lowest	Date	Average hourly velocity	Maximum velocity	Direction	Date	6:30 a. m.	12:30 p. m.	6:30 p. m.		
Columbia	30.66*	1	29.43*	21	8.1	21	nw.	15	81*	63*	68*	38	863
Kan. City Airp't.	30.62	1	29.49	21	10.7	30	nw.	15	80	64	66	34	840
St. Joseph	30.63*	1	29.52*	21	9.0	26	nw.	15	82*	67*	71*	42	880
St. Louis	30.69*	1	29.40*	21	11.5	33	sw.	15	77	63	68*	42	806
Springfield	30.56	1	29.43	21	12.4	31	w.	22	86	70	76	38	825
Cairo, Ill.	30.70	1	29.46	21	9.2	30	sw.	15	85	70	..	32	701
....	.....	..	.....	..	....	..	......	..	..	..	..	..	....

* Data for Airport station. § C. S. T.

COMPARATIVE DATA FOR FEBRUARY

Year	Temperature			Precipitation					Number of days			
	Average for State	Highest	Lowest	Average for State	Average, Northern Division	Average, Southwestern Division	Average, Southeastern Division	Snowfall, Average for State	Precip. .01 inch or more	Clear	Partly cloudy	Cloudy
1888	33.0	73	−17	2.22	2.04	2.22	2.39	....	7	..	..	..
1889	29.3	73	− 9	2.74	1.80	3.12	3.30	....	7	..	..	..
1890	35.5	81	− 8	2.71	1.12	2.04	4.97	....	7	..	..	..
1891	32.7	78	−13	2.45	2.05	2.33	2.96	2.4	6	..	..	..
1892	37.7	71	2	4.31	3.47	5.40	4.06	....	9	7	6	16
1893	27.9	65	−20	2.17	2.02	1.49	2.99	4.6	6	10	7	11
1894	30.8	72	−12	2.70	2.15	2.01	3.93	11.2	6	10	8	10
1895	23.6	77	−26	0.57	0.48	0.55	0.67	3.3	5	10	10	8
1896	35.6	81	−10	1.67	1.50	1.22	2.30	4.1	5	12	8	9
1897	34.8	74	−15	2.51	1.47	2.79	3.27	8.2	7	7	7	14
1898	35.4	78	− 9	1.61	1.54	1.47	1.81	0.8	5	13	6	9
1899	20.4	72	−32	2.30	1.75	2.06	3.10	5.3	6	12	8	8
1900	26.2	70	−16	4.00	3.87	3.35	4.77	16.6	10	10	6	12
1901	28.1	76	−19	1.74	1.41	1.51	2.31	7.6	6	13	7	8
1902	24.0	72	−17	1.62	0.89	2.10	1.88	5.5	5	11	8	9
1903	29.8	74	−25	3.25	1.98	3.34	4.42	5.8	7	11	6	11
1904	30.0	82	−18	1.02	0.64	0.63	1.78	1.5	5	11	8	10
1905	21.5	69	−40	1.68	1.72	1.69	1.63	13.2	8	11	6	11
1906	33.7	73	−13	2.42	2.66	2.17	2.43	4.8	7	15	6	7
1907	34.8	77	−15	1.28	0.79	0.92	2.12	4.5	6	12	5	11
1908	35.6	78	− 7	4.32	2.83	4.20	5.94	4.1	9	13	6	10
1909	38.8	71	− 4	3.24	2.37	2.52	4.82	3.1	9	13	5	10
1910	28.3	72	−24	2.17	0.92	1.89	3.71	10.2	6	13	5	10
1911	38.1	87	0	3.78	4.09	3.99	3.27	6.7	8	12	5	11
1912	28.3	72	−12	2.51	1.99	2.56	2.98	14.5	6	10	7	12
1913	29.8	78	− 9	2.15	2.08	2.62	1.75	8.5	7	12	5	11
1914	28.3	75	−11	2.80	2.03	2.55	3.83	14.0	7	12	6	10
1915	39.4	72	7	3.07	2.48	3.53	3.21	4.1	8	9	5	14
1916	31.4	78	−12	0.98	0.79	0.73	1.42	5.0	5	13	6	10
1917	30.5	83	−22	0.42	0.16	0.24	0.85	1.4	2	14	7	7
1918	34.9	85	−25	1.06	1.25	0.80	1.12	0.6	4	15	6	7
1919	35.3	71	−10	1.96	1.98	2.08	1.82	6.4	7	13	4	11
1920	34.5	78	− 5	0.62	0.33	0.40	1.14	1.2	4	11	6	12
1921	40.1	86	5	1.03	0.55	0.74	1.79	1.8	4	14	6	8
1922	35.4	80	− 5	1.83	1.37	1.62	2.49	1.9	5	14	6	8
1923	30.2	75	− 9	1.58	0.52	1.26	2.97	1.4	5	13	5	10
1924	33.8	79	− 5	1.84	1.58	1.92	2.03	8.1	7	14	4	11
1925	38.7	78	1	1.88	1.85	1.42	2.37	1.7	6	12	6	10
1926	39.4	76	− 4	2.07	1.93	1.81	2.46	2.9	6	11	6	11
1927	41.3	78	1	1.07	1.07	0.90	1.25	2.3	5	10	8	10
1928	37.0	73	− 2	2.27	2.18	2.17	2.47	1.8	7	12	6	11
1929	25.0	64	−23	1.96	1.31	1.72	2.86	9.4	7	10	5	13
1930	44.5	89	− 5	1.75	0.95	1.49	2.80	1.3	4	13	8	7
1931	40.9	75	5	2.49	1.46	2.82	3.20	0.3	6	12	6	10
1932	42.4	83	− 3	1.47	1.00	0.99	2.43	2.0	6	12	7	10
1933	32.2	78	−22	1.45	0.74	1.26	2.35	4.2	5	14	7	7
1934	32.5	79	−26	1.34	1.00	1.32	1.70	7.0	5	15	6	7
1935	37.4	80	0	1.54	1.63	1.45	1.55	0.2	5	10	6	12
1936	23.2	78	−25	1.50	1.43	1.33	1.73	4.1	6	12	7	10
1937	32.4	74	−15	1.38	1.20	1.46	1.48	3.5	6	11	7	10
1938	41.4	80	− 5	3.20	1.47	3.60	4.54	5.0	7	8	6	14
1939	33.0	71	− 9	3.17	1.73	2.70	5.08	8.6	9	11	6	11
1940	33.5	78	−11	1.59	1.11	1.37	2.28	5.5	9	7	6	16
1941	32.7	66	0	0.58	0.50	0.62	0.63	2.2	5	10	7	11
1942	33.0	74	−10	3.00	3.43	2.35	3.23	6.6	10	8	7	13
1943	39.1	80	−10	0.94	0.81	0.95	1.07	0.9	4	17	7	4
1944	37.9	82	−21	3.10	1.72	3.56	4.01	7.5	9	10	8	11
1945	35.5	85	−13	4.05	1.41	4.16	6.57	5.1	9	7	6	15
....	....	..	....	....	....	....	....	....	..	..	..	..
....	....	..	....	....	....	....	....	....	..	..	..	..
....	....	..	....	....	....	....	....	....	..	..	..	..
Period	**33.3**	**89**	**−40**	**2.11**	**1.60**	**1.99**	**2.73**	**5.1**	**6**	**12**	**6**	**10**

Climatological Data for February 1945

Stations	Counties	Elevation, feet	Temperature, in degrees Fahr.							Precipitation, in inches						Number of days				Prevailing direction of wind	Observers
			Length of record, years	Mean	Departure from the normal	Highest	Date	Lowest	Date	Length of record, years	Total	Departure from the normal	Greatest in 24 hours [4]	Date	Total snowfall, unmelted	With precip., .01 inch or more	Clear	Partly cloudy	Cloudy		
Northern Division																					
Albany	Gentry	930	4	31.6	......	65	14	− 2	1	16	1.30	−0.32	0.65	21	5.0	8	12[a]	3[a]	12[a]	n.	Curtis E. Grace
Bethany	Harrison	916	50	....	......	..	..	..	..	52	....	......	....	..	....	..	..	..	..	......	A. S. Cumming
Brookfield	Linn	767	4	31.4	......	61	24	− 1	1	4	0.81	......	0.42	21	3.2	5	7	4	17	e.	G. F. Breen
Brunswick	Chariton	652	64	33.0	+ 3.2	65	14	5	1	66	0.94	−0.87	0.27	21	4.5	11	5	4	19	ne.	O. K. Benecke
Canton, Lock & Dam 20	Lewis	488	7	29.9	......	55	15	−13	1	15	1.27	+0.01	0.40	25–26	1.5	10	6	6	16	nw.	Lockmaster
Chillicothe	Livingston	779	36	32.3	0.0	64	14	2	1	39	0.42§	−1.03	0.14	21	3.0§	4	15	2	11	nw	Wm. J. Olenhouse
Clifton Hill	Randolph	731	46	....	......	..	..	..	..	36	....	......	....	..	....	..	..	..	..	......	Dr. A J. Bradsher
Columbia	Boone	740	55	34.1	+ 1.7	66	14	6	18	55	2.50	+0.46	1.07	16–17	13.3	8	6	7	15	se.	U. S. Weather Bureau
Conception	Nodaway	1,108	56	31.2	+ 3.0	63	15	2	1	61	0.98	−0.17	0.76	21	2.0	5	3	12	13	se.	Fr. Adelhelm Hess
Edgerton	Platte	856	25	....	......	..	..	..	..	42	....	......	....	..	....	..	..	..	..	......	Paul C. Handley
Elsberry	Lincoln	449	14	34.8	+ 1.0	67	15	0	19	14	2.48	+0.82	0.85	21	8.8	7	5	14	9	s.	John Dowell
Fayette	Howard	760	65	34.4	+ 3.8	65	14	5	1†	62	1.82	+0.12	0.70	21	10.2	7	8	4	16	se.	Irvin E. Schnell
Fulton	Callaway	818	57	32.2	− 0.9	66	14†	3	1	53	2.03	+0.36	0.80	16–17	10.1	7	12	5	11	ne.	Frank E. Hillgartner
Grant City	Worth	1,134	41	30.0	+ 1.4	61	14	− 1	1	53	1.23§	+0.12	0.60	21	7.7	4	8	5	15	e.	J. Homer Korn
Hannibal	Marion	759	53	32.0	+ 2.3	63	14	− 4	1	61	1.23	−0.63	0.49	21	3.5	9	6	7	15	nw.	Hannibal Water Dept.
Kansas City Airport	Jackson	741	56	35.0	+ 3.8	67	14	14	26	56	0.85	−0.64	0.53	20–21	3.6	9	5	4	19	nw.	U. S. Weather Bureau
Kansas City Univ.	Jackson	908	7	35.8	......	67	14	14	26	7	0.98	......	0.45	21	....	9	..	..	..	n.	University of Kansas City
Kidder	Caldwell	1,020	53	31.6	+ 3.2	62	14	4	1	57	0.73	−0.81	0.49	22	3.8§	6	9	3	16	s.	Mrs. Geraldine Terry
Kirksville	Adair	969	56	31.4	+ 4.3	60	14	− 3	1	63	0.79	−0.74	0.42	21	3.6	9	6	4	18	sw.	P. O. Selby
Lawson	Ray	1,070	7	33.3	......	65	14	12	1	7	1.06	......	0.69	21	4.0	9	9	8	11	nw.	Elmer E. Lamb
Louisiana	Pike	469	51	32.0	+ 1.1	65	14†	− 2	1	64	1.40	−0.68	0.80	21	4.5	6	7	11	10	n.	Stark Bro's Nurseries
Macon	Macon	875	46	31.0	+ 1.4	62	24	− 2	1	52	1.01	−0.69	0.30	20–21	2.3	8	2	11	15	nw.	John W. Atwell
Maryville	Nodaway	1,169	55	29.0	+ 3.2	62	14	0	1	51	1.59	+0.16	1.23	21	7.4	10	7	7	14	se.	R. B. Montomery
Memphis	Scotland	787	6	27.8	......	59	14†	−11	1	15	0.95§	−0.02	0.21	21	4.5	6	7	10	11	nw	John W. Alexander
Mexico	Audrain	800	56	31.8	+ 1.7	65	14	− 4	18†	67	2.17§	+0.32	1.11	16	13.3	6	8	6	14	ne.	Darrence W. Stuart
Moberly .....3½ mi. NE	Randolph	860	8	31.8	......	67	24	0	1	8	0.75§	......	0.40	20–21	3.3	9	7	12	9	se.	F. W. Bell
New Florence. 1 mi SE	Montgomery	885	2	32.1	......	66	15	− 1	1	3	1.73	......	0.67	20–21	10.5	9	2	7	19	nw.	U. S. Weather Bureau
Oregon	Holt	1,048	89	32.8	+ 4.0	66	14	0	1	89	1.48	+0.11	0.93	20–21	6.5	8	7	7	14	nw.	Miss Mina Wright
St. Charles	St. Charles	520	57	34.5[a]	+ 1.2	73[a]	15	5[a]	1†	67	2.94§	+0.95	1.00	20–21	8.3§	8	12[a]	10[a]	5[a]	nw.	Martin L. Comann
St. Joseph	Buchanan	957	35	33.5	+ 3.9	65	14	13	1	73	1.47	−0.20	0.96	20–21	5.2	10	10	5	13	nw.	U. S. Weather Bureau
Saverton, Lock No. 22	Ralls	472	7	32.2	......	61	15†	−11	1	7	1.94	......	0.56	25–26	3.0	9	7	3	18	nw.	Lockmaster
Shelbina	Shelby	779	4	33.0	......	63	14	− 6	1	52	1.33§	−0.51	0.55	21	2.6	8	7	5	16	sw.	Guyman Hatcher
Steffenville	Lewis	650	47	32.0	+ 2.3	61	14	− 8	1	52	1.00	−0.77	0.53	21	2.6	8	6	8	14	w.	Mrs. Fannie V. Gross
Tarkio	Atchison	916	42	28.4	− 0.6	64	14	0	5	51	1.65	+0.37	1.28	21	12.9	5	3	8	17	se.	C. A. A. Station
Trenton	Grundy	822	49	32.7	+ 3 3	62	14	− 2	1	50	0.49	−1.09	0.32	21–22	4.5	5	4	9	15	n.	W. H. Estes
Unionville	Putnam	1,062	52	28.5	+ 1.8	60	14	− 5	1†	52	0.69	−1.08	0.25	21	3.9§	6	6	14	8	sw.	C. D. Wilson
Vandalia	Audrain	766	1	34.0	......	69	15	− 1	1	6	1.76§	......	0.50	20–21†	6.2§	9	5	7	16	s.	H. G. McIntire
Warrenton	Warren	816	63	35.4	+ 4.5	72	15	− 2	1	55	2.70	+0.81	1.23	20–21	10.9	8	10	10	8	w.	W. T. Zimmerman
Keokuk, Iowa	Lee, Ia.	574	73	30.4	+ 2.1	56	24	− 2	1	73	0.91	−0.64	0.51	21	1.7	9	4	7	17	nw.	U. S. Weather Bureau
Division means	**and extremes**	.....	..	**32.1**	**+ 2.3**	**73**	**15**	**−13**	**1**	..	**1.41**	**−0.19**	**1.28**	**21**	**5.8**	**8**	**7**	**7**	**14**	**nw.**	
Southwestern Division																					
Anderson ...1½ mi SW	McDonald	1,000	41	37.0	+ 1.3	74	15	13	8	46	4.31	+2.53	1.68	20–21	4.5	6	11	5	12	n.	Samuel G. Chamberlain
Appleton City	St. Clair	813	50	36.2	+ 2.3	69	14	9	18	53	1.54	−0.13	0.50	16–17	7.6	9	11	2	15	ne.	Rolla Brown
Bolivar	Polk	1,071	42	37.2	+ 2.0	68	9†	12	27	50	2.88§	+0.78	1.01	20–21	5.7	11	11	1	16	sw.	Southwest Baptist College
Boonville	Cooper	650	7	32.8	......	65	14	6	1†	68	3.16	+1.38	1.58	16–17	13.4	8	3	7	18	se.	Boonville Water Dept.
Carthage	Jasper	962	11	39.6	......	71	9	16	27	21	2.65	......	0.70	20–21	2.3	10	5	8	15	ne.	Carthage W. and E. Plant
Clinton	Henry	786	52	36.2	+ 2.6	70	14	9	18	58	1.75	−0 20	0.68	21	6.5	9	10	7	11	e.	U. S. Weather Bureau
Eldon	Miller	934	50	36.2	+ 3.1	69	15	8	18	46	2.45	+0.63	0.81	21	6.8§	9	10	5	13	nw.	E. H. Shepherd
Fort Leonard Wood	Pulaski	1,107	4	34.9	......	73	15	6	1	4	3.99	......	1.60	20–21	7.5§	7	11	8	9	sw.	U. S. Army Medical Corps
Harrisonville	Cass	904	67	33.0	+ 2.3	68	14	8	1	70	1.63§	−0.10	0.58	21	7.5	8	5	8	15	se.	John H. Patterson
Jefferson City	Cole	557	55	34.7	+ 2.6	69	15	7	1	63	2.45	+0.69	0.80	16–17	8.0	7	5	5	18	e.	Mrs. Frank Kliegel
Joplin	Jasper	1,008	23	39.1	+ 3.3	70	14	17	26	40	2.45	+0.77	0.69	25	....	10	11	2	15	s.	Empire Dist. Electric Co.
Lakeside	Miller	595	14	34.0	0.0	67	15	6	1	14	2.34	+0.52	0.83	20–21	....	9	5[a]	8[a]	14[a]	se.	W. S. Frame
Lamar	Barton	980	57	35.3	0.0	72	14	10	1	64	2.45	+0.68	0.90	20	5.0	8	11	1	16	sw.	Mrs. Marie Mann
Lebanon	Laclede	1,265	57	37.0	+ 2.6	71	15	9	1	58	3.87§	+1.68	1.71	20–21	7.5	10	8	6	14	ne.	Mrs. Rosa E. Montelius
Lexington	Lafayette	688	60	34.3[a]	+ 3.3	68[a]	14	13	1	61	1.54	−0.30	0.41	20–21	2.8	6	1	13	14	nw.	F. I. Bowers
Lockwood	Dade	1,078	39	38.5	+ 1.5	70	15	13	27	49	2.23	+0.50	0.82	25–26	4.0	10	10	5	13	se.	Hubert A. Nieman
Marshall	Saline	779	58	36.4[b]	+ 5.5	68[b]	14	10[b]	1†	55	1.80§	+0.02	0.65	16	10.5§	7	5	11	12	sw.	Mrs. Merrel Peace
Mountain Grove	Wright	1,463	44	37.8	+ 2.7	75	15	12	1	48	6.37	+4.14	2.88	20–21	2.3	9	5	7	16	se.	Mo. Fruit Exp. Station
Mount Vernon	Lawrence	1,174	33	....	......	..	..	..	..	45	....	......	....	..	....	..	..	..	..	......	James C. Williamson
Neosho	Newton	1,011	58	40.6	+ 3.0	71	9	16	8	62	3.97	+1.98	1.08	20–21	4.2	12	8	5	15	s.	U. S. Fisheries Station
Nevada	Vernon	862	52	37.7	+ 3.8	71	14	11	8	53	1.83	+0.08	0.92	16–17	8.7	9	12	0	16	ne.	Henry Kraft
Ozark Beach	Taney	700	5	37.2	......	79	15	15	1	20	8.85	+7.05	2.78	20–21	1.7	8	4	5	19	e.	Empire District Elec. Co.
Sedalia	Pettis	910	32	36.2	+ 5.8	68	14	4	18	34	2.40§	+0.26	0.89	16–17	13.5	9	8	6	14	sw.	Dr. J. E. Cannaday
Seligman	Barry	1,542	44	40.5[c]	+ 3.0	74[c]	15	17[c]	8	42	7.06	+5.22	2.89	20–21	5.0§	10	9[a]	4[a]	14[a]	e.	Floyd E. Fawver
Seymour. .3½ miles NE	Webster	1,642	39	34.1	− 0.9	70	16	9	18	39	5.27	+3 09	2.19	20–21	4.0	10	5	7	16	s.	A. L. Hailey
Springfield.. ½ mile E	Greene	1,301	57	35.5	+ 1.5	71	9	16	1	57	4.28	+1.93	2.01	20–21	1.8	12	4	6	18	se.	U. S. Weather Bureau
Sweet Springs	Saline	700	4	35.2	......	67	14	− 1	18	4	1.63	......	0.74	20–21	6.5	11	7	9	12	w.	H F. Nelson
Warrensburg	Johnson	878	58	36.1[a]	+ 3.6	67	14†	9[a]	18	65	1.91	+0.03	0.63	16–17	10.2	7	10	4	14	nw.	Central Teachers College
Warsaw	Benton	687	44	37.5	+ 1.9	70	14	4	18	50	1.98§	−0.26	0.60	16–17	6.5§	6	10	2	16	nw.	Dora B. Johnson
Wasola	Ozark	1,294	4	38.8	......	77	15	15	1	5	9.45§	......	3.78	25–26	8.1	10	9	8	11	w.	A. W. Pinckney
Division means	**and extremes**	.....	..	**36.5**	**+ 2.5**	**79**	**15**	**− 1**	**18**	..	**4.16**	**+2.17**	**3.90**	**25–26**	**6.4**	**9**	**8**	**6**	**14**	**se.**	
Southeastern Division																					
Advance.... ¼ mile W	Stoddard	354	8	37.8	......	76	15	10	1	8	7.50	......	3.91	25–26	T.	12	3	5	20	n.	U. S. Weather Bureau
Arcadia	Iron	926	64	36.4	+ 2.3	85	15	3	1	67	4.54	+2.06	2.51	20–21	2.0	7	6	3	19	e.	Arcadia College
Birch Tree... ½ mile E	Shannon	1,000	50	37.4[c]	+ 1.1	79	15	11	1	51	10.31	+7.81	3.66	25–26	2.2	10	6[c]	5[c]	14[c]	ne.	R. C. Moger
Black.......9 miles NW	Iron	1,000	52	36 2	+ 1 9	78	15	− 1	1	52	6.62	+4.34	2.80	25–26	2.7	11	10	3	15	sw.	Claude Volner
Campbell	Dunklin	314	19	41.5	− 0.6	75	15	13	1	19	6.53§	+3.20	2.25	20–21	2.0	12	7	11	10	s.	Mrs. Ruth Christian
Caruthersville	Pemiscot	265	49	40 2	− 0.1	74	15	14	1	53	5.65	+2.27	1.30	16–17	1.0	12	9	1	18	e.	Victor T. Malloure
Crystal City	Jefferson	420	11	37.8	+ 2.6	81	15	0	1	11	4.19§	+2.32	1.64	25–26	5.5	7	4	8	16	nw.	Richard K. Ragland
Doniphan	Ripley	344	41	40.8	+ 1.5	80	15	13	1	41	9.05	+5.74	3.38	25–26	1.5	8	8	5	15	ne.	Boyce Lackey
Farmington	St. Francois	896	34	37.7	+ 0.8	79	15	3	1	48	5.94	+3.42	2.71	25–26	3.4	8	5	9	14	s.	F. M. Karsch
Greenville	Wayne	460	36	40.0	+ 4.2	81	15	8	1	38	8.88	+6.16	4.85	25–26	0.8	9	11	4	13	se.	Beuford Shoemake
Jackson	Cape Girardeau	428	54	40.0	+ 3.5	74	15	4	1	55	8.09	+5.21	4.30	26	....	8	7	6	15	n.	John G. Putz
Koshkonong	Oregon	958	44	40.7[a]	+ 1.6	77	15	14	1	45	9.85	+6.99	4.39	25–26	1.8	8	7	4	17	nw.	Mrs Genevieve T. Smith
Licking...... 4 miles N	Texas	1,170	8	38.5	......	76	15	3	18	8	5.48	+3.07	3.05	20–21	....	5	9	4	15	s.	U. S. Forestry Service

Continued on next page

Climatological Data for February 1945—Continued from preceding page

Stations	Counties	Elevation, feet	Temperature, in degrees, Fahr.							Precipitation, in inches						Number of days				Prevailing direction of wind	Observers
			Length of record, years	Mean	Departure from the normal	Highest	Date	Lowest	Date	Length of record, years	Total	Departure from the normal	Greatest in 24 hours[4]	Date	Total snowfall, unmelted	With precip., .01 inch or more	Clear	Partly cloudy	Cloudy		
Southeastern Division—	*Concluded*																				
Malden....4 miles NNW	Dunklin	292	2	39.8	......	75	15	13	1	2	6.55	......	2.15	20–21	T.	13	4	3	21	ne.	U.S. Weather Bureau
Marble Hill	Bollinger	532	50	39.5	+ 2.9	75	15	5	1	52	6.07	+2.99	3.80	25–26	1.3	6	5	8	15	s.	R. A. DeWitt
Poplar Bluff	Butler	339	40	39.2	+ 1.1	78	15	12	1	41	7.65§	+4.76	1.72	25–26	*1.8*	8	15	8	5	ne.	Joe Roehm
Rolla	Phelps	1,202	45	35.2	− 1.1	74	15	8	1	61	3.74§	+1.69	1.42	20–21	6.0	7	7	7	14	sw.	Rolla School of Mines
St. Louis	**St. Louis City**	465	108	36.2	+ 1.4	74	15	8	1	108	3.57	+1.01	1.29	20–21	8.4	11	3	8	17	nw.	**Section Center**
St. Louis Airport	St. Louis	556	8	35.0	+ 1.0	74	15	6	1	14	2.49	+0.25	0.92	21	9.4	11	3	8	17	w.	U. S. Weather Bureau
St. Louis University	St. Louis City	578	33	36.2	+ 1.3	74	15	8	1	33	4.38	+2.07	1.45	25–26	9.2§	13	6	8	14	se.	St. Louis University
Salem	Dent	1,206	41	37.6	+ 1.8	78	15	7	1	44	5.19	+2.91	2.50	19–20	3.0§	8	8	4	16	s.	E. E. Martin
Sikeston	Scott	318	38	40.2	+ 3.0	76	15	15	1	48	5.98	+2.76	2.19	21	T.	12	7	12	9	s	Mrs. Lucy W. Humphreys
Union........1½ mi. SE	Franklin	520	7	36.2	......	74	15	0	18	28	2.99§	+0.79	1.61	21	*10.0*	5	12	2	14	w.	Cornelius Sieges
Vichy........2 mi. NW	Maries	1,125	9	34.8	......	71	15	4	1	10	3.19	......	1.28	20–21	5.5	10	6	6	16	se.	Civil Aeronautics Adm.
Wappapello Dam	Butler	475	6	37.3	......	71	15	11	1†	6	7.49	......	2.45	25–26	T.	10	5	4	19	sw.	U. S. Engineer Office
Weingarten	St. Genevieve	833	4	37.4	......	71	9	0	1	5	5.50	......	2.55	21	2.0	5	8	6	14	n.	William J. Miller
West Plains	Howell	1,005	8	36.9	......	79	15	15	1	8	9.64	......	....	.....	2.0	10	4	3	21	ne.	U. S. Weather Bureau
Willow Springs 500 ft E	Howell	1,238	4	36.7	......	79	15	14	1	38	8.63	+6.07	3.73	25–26	....	11	7	5	16	se.	Allen Frazee
Cairo, Ill.	Alexander, Ill.	314	73	40.0	+ 1.5	72	15	11	1	74	5.92	+2.79	1.78	20–21	0.1	13	4	3	21	ne.	U. S. Weather Bureau
Division means	**and extremes**	.....	..	**38.0**	**+ 1.6**	**85**	**15**	**− 1**	**1**	..	**6.57**	**+3.84**	**4.85**	**25–26**	**3.1**	**9**	**7**	**6**	**15**	**s.**	
State means	**and extremes**	.....	..	**35.5**	**+ 2.2**	**85**	**15**	**−13**	**1**	..	**4.05**	**+1.94**	**4.85**	**25–26**	**5.1**	**9**	**7**	**6**	**15**	**nw.**	

The departures from normal temperature are computed from the averages of the entire period for stations having 10 or more years of record. Departures of precipitation for stations with 15 years or more of record are computed from a normal or "standard mean", adjusted to a uniform 35-year period; for stations of 10 to 14 years the means for the period of record are used. The normal may be found by adding the departures when minus (−) or subtracting when plus (+). Figures and letters following stations indicate distance in miles and direction of station from the city Post Office, unless otherwise indicated. T. Trace or 0.005 inch or less. [a], [b], [c], etc., number of days missing; for example, [b], indicates two days missing. Italics data interpolated. § Partly interpolated. † And other dates. ‡ Received too late to be included in means and summaries. [4] Best available used for stations not equipped with recorders. Post office address of: Altona is Adrian; Crane Mountain is Arcadia; East End is Goodland; Eastwood Lookout is Van Buren; Ellsinore Lookout is Mill Spring; Farber is Laddonia; Hailey is Cato; High Lookout is Birch Tree; Macedonia Lookout is Doniphan; Perry is Center; Pilot Knob is Ironton; Pineview Lookout is Duke; Sugar Camp Lookout is Cassville; Wilderness Lookout is Lampe.

(Continued from page 9)

There were no windstorms nor hailstorms of a damaging nature during the month. A rather unusual phenomenon occurred on the 16th when thunder and lightning occurred during a heavy snowstorm in the east-central portion of the State.

During the warmer periods of the month growth of wheat and grass was started and these were becoming green. However, due to wet and muddy fields, very little grazing of livestock was possible. Some plowing was accomplished during the second week, but only for a few days. During the remainder of the month the ground was too wet to work, as a rule. Fruit buds were still dormant at the close of the month and came through the winter in very good shape. A large fruit crop was anticipated, provided later damage by freezing did not occur. Livestock were generally in good condition and supplies of available feed were ample.—M. R. W.

TEMPERATURE

The monthly mean for the State, 94 stations reporting, was 35.5°, or 2.2° warmer than the 58-year February average. The highest monthly mean was 41.5° at Campbell, and the lowest was 27.8° at Memphis. The highest reported was 85° at Arcadia on the 15th, and the lowest was 13° below zero at Canton on the 1st.

PRECIPITATION

The average for the State, 212 stations reporting, was 4.05 inches, or 1.94 inches more than the 58-year February average. The greatest monthly amount was 10.38 inches at Elijah, and the least was 0.42 inch at Chillicothe. The greatest amount reported in 24 hours was 4.85 inches, at Greenville on the 25-26th. The average number of days with 0.01 inch, or more, was 9.

Snowfall averaged 5.1 inches, or exactly normal. The greatest monthly snowfall was 15.0 inches at Boonville (river station).

MISCELLANEOUS PHENOMENA

Floods.—In Black River, at Poplar Bluff, on 24th and continued into March. In Current River, at Doniphan, on 23d; also on 27th and continued into March. In Gasconade River, at Jerome, on 23d. In Meramec River, at Pacific, on 24th. In Mississippi River, at Cairo, Ill., and below, on 24th and continued into March.

Fogs.—Heavy, 1st, 2d, 3d, 4th, 8th, 10th, 11th, 13th, 14th, 15th, 20th, 21st, 28th.

Glaze.—2d, 3d, 4th, 7th, 11th, 15th, 16th, 17th, 19th, 20th, 21st, 25th, 26th, 27th, 28th.

Hail.—Light, on 16th at Appleton City, Bolivar, Clinton, Cook Station, Fort Leonard Wood, Greenville, Joplin, Lockwood, Marshfield, Neosho, Nevada, Pleasant Hill, Roby, Saunders Tower, Springfield, and Summersville; on 26th at Advance and Fort Leonard Wood.

Sleet.—2d, 3d, 4th, 7th, 11th, 16th, 17th, 19th, 20th, 21st, 22d, 23d, 25th, 26th, 27th, 28th.

Windstorms.—No damaging winds reported, but high winds occurred on several days.

OBITUARY

Miss Carrie Loomis, Cooperative Observer at Lexington since July 1927, died January 26, 1945. During this time Miss Loomis served the Weather Bureau faithfully and well and the Bureau is deeply indebted to her for this public service of maintaining the continuity of the climatic record for Lexington, Mo.

ERRATA

November 1944, page 68: Date of greatest 24-hour precipitation at Birch Tree and Kansas City University should be 3-4th, and 2-3d, respectively. Days with .01 inch or more of precipitation at Tarkio should be 6.

January 1945, page 1: Line 6 of second paragraph the 0.6° should be 0.5°. Percentage of sunshine at Springfield should be 40. Page 2: Date of greatest 24-hour precipitation at Tarkio should be 21†.

Daily Precipitation for February 1945

Stations	Drainage basins	Day of month																															Total
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	..	..	..	
Northern Division																																	
Albany	Grand		.10		T.			.10							.03						T.	.65	.25			.03	.04		.10				1.30
Amity[2]	do		.07	T.	.02	T.		.05					T.		.03		.05	.05		T.	T.	.45	.57	T.			.10						1.39
Auxvasse	Missouri		.05		T.			T.									1.20			T.	.02	.80		T.		.38	.25		.02				2.72
Bethany	Grand																																....
Bowling Green[2]	Mississippi		.02															.63			.11	.60	.10	*T.*			.40		*.04*				§1.90
Brookfield[2]	Grand		.10					T.										T.				.30	.12	*T.*			.24		.05				0.81
Browning 3 mi. NE	do	T.	.04	T.	.04	T.		T.				.01			.03		T.	.01	T.	T.	T.	.26	.10	.05	T.	.07	.05		.18				0.84
Brunswick[2]	do		.02		.01			.02	T.						.03			.02		T.	.07	.27	.24	.02			.19		.05				0.94
Canton, Lock No. 20[2]	Mississippi		.03	T.	.02	T.		.02	T.				.01		.03						.15	.33	.24				.40		.04				1.27
Centralia[2]	do		.01															.88			.13	.56	.06				.50		.06				2.20
Chillicothe[2] (A)	Grand		.06		T.	T.		T.							T.			T.			T.	.14	.12			T.			*.10*				§0.42
Chillicothe[2] (B)	do		.03		.01			T.	T.						.05			T.			T.	.10	.14				.23		.03				0.59
Clifton Hill	Chariton																																....
Columbia[1,5]	Missouri	T.	T.	.01	T.			T.			T.				T.		1.04	.03		T.	.10	.62	T.	T.		.53	.07	T.	.10				2.50
Columbia 9 mi. WNW	do		T.		.02										.03		1.01				.18	.63				.54	.12		.08				2.61
Conception	do	*T.*	T.		*T.*			.04							.03		T.	.09		T.	T.	.76	.06		T.	T.	T.		T.				0.98
Edgerton	do																																....
Edina[2]	Mississippi		.07		T.			.04	*T.*				T.		.05						T.	.32	.20				.14		.09				0.91
Elsberry	do																*	.65			.15	.85				*	.75		.08				2.48
Elsberry S. C. S.[2]	do		T.		T.			T.										.93			.11	1.02	.11	T.			.44	T.	.08				2.69
Farber[2] 1 mile N	do		.01								T.							.37			.13	.58		.02			.57		.06				1.74
Fayette	Missouri		T.	T.	.01			T.							T.		.52	*T.*			.15	.70				.20	.12		.12				1.82
Fulton[2]	do		.05		*T.*	*T.*		*T.*										.80			.18	.66					.25	.03	.06				2.03
Gallatin[2]	Grand		.07		T.			T.							.02		.04	T.				.25	.20			T.	.11		.01				0.70
Grant City	do	T.	*T.*	T.	T.			T.	*T.*								*.20*	*T.*		T.	*T.*	.60	*.40*			*T.*			.03				§1.23
Hannibal[1] (A)	Mississippi		.03		.01			.02				T.			.03		.01				.14	.49	T.			.42			.08				1.23
Hannibal[2] (B)	do		T.	T.	T.	T.		T.	T.						T.	T.		T.			T.	.22	.20				.68		.13				1.23
Hermann[2]	Missouri		.20						T.					.04				.18				.64	T.				T	.75	.03				1.84
Kahoka[2]	Mississippi		*.03*		.03	*T.*		T.	*T.*						T.	*T.*					T.		.32				.16		.10				§0.64
Kansas City Airport[1,5]	Missouri	.10	T.	T.	T.		T.	T.							T.		.01	.01		T.	.11	.42	T			.14	.02	.02	.02				0.85
Kansas City University	do	.19															.02	.02			.11	.45				.12	.03	.02	.02				0.98
Kidder[2]	Grand		.06					.03									*T.*	.03				.04	.49				.08		*T.*				0.73
King City	Missouri			.14				.12												*T.*		.35	.49										1.10
Kirksville	Mississippi		.06	T.	.01			.01				T.			.03			T.			T.	.32	.10			.10	.01		.15				0.79
Knoxvillle[3]	Missouri	.02	T.	T.	T.		T.	.01									T.	T.		T.	.03	.50	T.			.16	.01	.03	.01				0.77
LaBelle[2]	Mississippi		*.10*					T.				T.			.03						T.	.58	.20				.12		.10				§1.13
Lawson	Missouri	.03	.06	T.	.03			T.									T.	.02			T.	.63	.06			.16	.03		.04				1.06
Linneus[2]	Grand		*.06*															*T.*				*	.25				.15		.10				§0.56
Louisiana[2] (A)	Mississippi		.10														.30				.10	.70	.10						.10				1.40
Louisiana[2] (B)	do		.03					T.										.34			.09	.37	.31				.33	.01	.07				1.55
Lucerne[2]	Grand							.04														.13	.33				.05		.05				0.60
Macon[2]	Chariton		.03		*T.*			.02							.08						.08	.30	.15	T.			.27		.08				1.01
Madison[2]	Mississippi		.05												.02			.10			.12	.45					.23		.04				1.01
Martinsburg[2]	Missouri		.06		T.	*T.*			T.									1.09		*T.*	.11	.77	.04	.03			.60	T.	.07				2.77
Maryville	do	.01	.02	T.	.04			.04							.06		.01	.06		T.		1.05	.18			.12							1.59
Memphis[2]	Mississippi		*.02*		*.20*	T.		T.	T.				T.		T.	T.					T.	.21	.20				.20		*.12*				§0.95
Mexico[2]	do		.15		*T.*													1.11				.03		*.10*			.65		.13				§2.17
Milan[2]	Grand		*.04*	*.02*	*T.*		*.02*															.30	.10	T			.10		.20				§0.78
Moberly[2] 3½ mi. NE	Mississippi		*.03*		*	.01	T.							.03				.04			.06	.40	T.				*.05*		*.10*				§0.75
Monroe City	do		.10		.06			.03				.04			.09			*T.*			.14	.65				.37			.12				1.60
New Florence[3,5] 1 mi SE	Missouri	.01	.02	T.	T.	T.	T.	T.			T.		T.	T.			.32	.03		T.	.16	.67	T.	T.		.42	.07	T.	.03				1.73
Oregon	do	.26	T.	T.	.06			.04									T.	.06		T.	T.	.93	.05	.06		T.	.02						1.48
Palmyra	Mississippi		.03		T.			T.				T.			.04			*T.*			.15	.40				*	.35		.07				1.04
Paris[2]	do		.04		.01			T.							T.	T.		*.15*			.14	.56	.05	.03			.28	T.	.08				§1.34
Perry 1 mile E	do		*.10*														.14				.18	.53	.03			.10	.23		.05				§1.36
Philadelphia[2]	do		.04					*T.*	*T.*						.05						*T.*	.70	.07				.26		*T.*				1.12
St, Charles[2] (A)	Missouri							*T.*	T.					.13				.45			.26	1.00	.20	*T.*			.47	*.35*	*.08*				§2.94
St. Charles[2] (B)	do		T.		T.	T.		T						.08				.80	T.		.02	.61	.70	T.			.48	.31	.09				3.09
St. Joseph[1,5]	do	.08		.02	.01		.01	.06							T.		.25	T.		T.	.07	.93	.01			T.	.03	T.	T.				1.47
Saverton, Lock No. 22[2]	Mississippi		.35	T.	T.	T.		.02	T.				T.		T.	.06		.12			.22	.45	.11	T.			.56		.05				1.94
Shelbina	do		.11					T.							.04		T.	*T.*			.21	*	.55			*	.28		*.14*				§1.33
Shelbyville[2]	do														.08							*	.72				.20						1.00
Steffenville	do		.07		T.			T.				T.			.02						.14	.53	.03			.17	.03		.01				1.00
Tarkio[3]	Missouri	.02	T.	T.	.06		T.	T.						T.			.01	T.	T.	T.	T	1.28	T.		T.	.28							1.65
Trenton[2]	Grand		.04		T.			.01				T.			T.			T.				.06	.32			T.	.06		T.				0.49
Troy[2]	Mississippi		.01		*T.*	T.		T.	T.		T.			T.	T.	T.		.48			.05	.98	.07	.10			.38	.08	.02				2.17
Unionville[2]	Chariton		.03					.03														.18	.25				.10		.10				0.69
Vandalia	Mississippi		*.15*		*	.02		*T.*									*.40*	*.05*			.12	.50		*T.*			.50		*.02*				§1.76
Warrenton	do		.05		T.			T.	T.					T.			.26	.28		T.	.11	1.23		T.		.24	.48		.05				2.70
Keokuk, Iowa[1]	do	T.	.01	T.	T.	T.	T.	.02	T.			.02			.02					T.	.08	.51	T.			.17	.01	T.	.07				0.91
Southwestern Division																																	
Altona[2]	Osage		*.20*	*T.*														.60			T.	.43					.28	T.					§1.51
Anderson[2] 1½ mi. SW	Neosho		*T.*											.21			*T.*	.85		.12	*T.*	1.68				*T.*	*	1.45					4.31
Appleton City	Osage	*	.17					T.									*	.50		T.	.10	*T.*	.40			.20	.12		.05				1.54
Ava Ranger Station[2]	White		*.04*	T.										1.00			.02	1.00				3.50					2.50	.15	.20				§8.41
Bakersfield[2]	do																																....
Bolivar	Osage	*.12*			.02									.22			.13	.25		.02	.08	1.01	T.			.38	.61	T.	.04				§2.88
Boonville[2] (A)	Missouri		*T.*	*T.*	.02	.01										.01		1.58				.75	.02				.55	T.	.22				3.16
Boonville[2] (B)	do		.01		.02	T.												.95			.02	.50	.27				.41	T.	.16				2.34
Bradleyville[2]	White		.10	T.	T.									.70			.10	1.30			T.	3.80					2.75	.65					9.40
Buffalo[2]	Osage		.04												.27				.50			.08	1.25					.85	.28				3.27
Butler[2]	do		.01		.03													.78			.05	.36	.02				.40	T.	.06				1.71
Caplinger Mills[2]	do		*.18*			T.												.66			.14	.61	.04				.63	*.18*	.07				§2.51
Carthage	Neosho	.06													.12		.29	.40		.15	.27	.70				.13	.51	.02					2.65
Cassville[2]	White				.02						T.			.50				1.00	T.		.01	2.53	.01				1.46		.65				6.18
Clinton[3]	Osage	.20	.02	T.	.06			T.									.23	.10		T.		.68				.34	.08		.04				1.75
Concordia	Missouri		*.08*		.03			T.							T.		*.40*	*.15*		T		*	.63			*	.24		*.08*				§1.61
Crocker	Osage		*.04*											.33			.20	.56			.05	1.36				.50	.90		.05				§3.99
Eldon	Missouri	.02			.01												.37	.16			.07	.81				.44	.45		.12				2.45
Eldorado Springs	Osage	*.18*															.68			T.	T.	.47				.17	.24		.08				§1.82
Elijah[2]	White		.07					.05						.35				1.77			.07	2.97					3.90	.95	.25				10.38
Fort Leonard Wood[2]	Gasconade													.32				.40			.18	1.60					.59	.40	.50				3.99
Galena[2]	White		.07	.03										.45				.98			.26	2.00	.02				1.46	.61	.26				6.14
Granby[2]	do												.42				*	.85			.25	1.08	.10				*	1.20					3.90
Hailey	do	.04												.54		1.40	.03				.24	3.33	T.			.32	1.20	.18	T.				7.28
Harrisonville[2]	Osage		*.20*		.05													.35			.09	.58	*	.05	.08		.10	.03	.10				§1.63
Jefferson City[2]	Missouri																	.80				.71				.34	.60						2.45
Joplin[1]	Neosho	.02			.05								.06	.01			.48			.22	.51					.69	.25	.16					2.45

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Stations	Drainage-basins	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	..	..	..	Total
Southwestern Division—	*Concluded*																																
Lakeside[2, 5]	Osage		.03	.01	T.	T.			T.					.03		T.		.52			.12	.83	T.				.65	.11	.04				2.34
Lamar[2]	Neosho		.15	*T.*														.45			.15	.90	.05				.40	.20	.15				2.45
Lebanon	Osage	*.18*	.02	T.				T.						.24			.15	.42			.05	1.66				.23	.81		.08				§3.87
Lexington[2]	Missouri		.10					*T.*										.31				.41	.38				.27		.07				1.54
Lockwood	Osage	.18												.07			.05	.37		.10	.10	.49				.24	.58	T.	.05				2.23
Macomb[2]	White																																
Marshall	White	*	*.18*												T.		*	*.65*				.62				.27	*T.*		*.08*				§1.80
Marshfield[2]	do		.02			T.								T.			*.03*	.67			.04	2.12					.55	.47	*.12*				§4.02
Mountain Grove[2]	Neosho		.03		T.									.55				.65			.03	2.88	.04				1.50	.57	.12				6.37
Mount Vernon[2]	do																																
Neosho	Osage	T.			.05									.31			.16	.78		.18	.16	1.08	.03			.20	.47	.51	.04				3.97
Nevada	Missouri	.15	.01	T.													.47	.45		T	.08	.36	T.			.10	.14		.07				1.83
Osceola[2]	Osage		.12		.02				T.									.58			.03	.75	.05				.05	.47	.03				2.10
Ozark	White																																
Ozark Beach[2]	do		.05											.64				1.73			.12	2.78					2.65	.67	.21				8.85
Pierce City[2]	Neosho		.08			*	.04							.34			*	.94			.19	1.57					.95	.33	.10				4.54
Pineview Lookout	White																																
Pleasant Hill[2]	Osage		*.18*		.03				*T.*									*.30*			.01	.36	.20				.18	.04	.02				§1.32
Roby	Gasconade	T.	.03											.44			.16	.28		.02	.15	2.37				T.	1.11	T.	.07				4.63
St. Thomas[2]. 2¼ mi SW	Osage								T.					.08				.54			.12	.71					*	.79	.04				2.28
Saunders Lookout[2]	White		*.15*		.04									.52				.50			.09	1.94					1.77	.85	.21				§6.07
Sedalia	Missouri		.09		.02			*T.*									*	.89			.11	.80				*	.41		*.08*				§2.40
Seligman	Neosho			T.	T.								.20	.23			.35	.62		.10	.26	2.63				1.03	1.34	.30					7.06
Seymour[2] 3½ mi. NE	White		.15		.15									.48					.85		.12	2.16	.03				.90	.38	.05				5.27
Shell Knob[2] 3 mi. SE	do	*.02*	*.08*											.37				1.21		.21	.10	2.50	T.				1.79	.28	.17				§6.73
Siloam Sprgs Lookout[2]	do		.15											.37				1.50				.81	1.03				3.20	.70					7.76
Springfield[1, 5] ½ mi. E	do	.06	T.	T.	.03			T.			T.		.35	.01			.55	.04		.03	1.16	.87	T.			.30	.84	.04	T.				4.28
Stover[2]	Missouri		.03											*.05*				.50				.92					*	.81	.03				§2.34
Swan Tower Lookout[2]	White		.15											.27				.88				2.25					2.08	.85					6.48
Sweet Springs	Missouri	T.	.05		.04			.01									.42	.13			.03	.74	.02			.03	.08		.08				1.63
Tecumseh[2] ¼ mi. W	White		.13											.46				1.81			.05	2.32	.09				2.83	1.33	.25				9.27
Topaz[2]	do		*.06*	*T.*									.30				.12		1.26	.10		2.37					2.90	.60	*.08*				§7.79
Vanzant[2] 3¾ mi. SE	do		.07											.34			.05	1.39			2.90	.05	T.				2.67	.67	.14				8.28
Warrensburg	Missouri	T.	.30					T.			T.						.53	.10			T.	.52	T.			.32	.12		.02				1.91
Warsaw[2] (A)	Osage		*.12*		T.													.60			T.	.59	.06				.56	T.	.05				§1.98
Warsaw[2] (B)	do		*.10*															.40				.15	.36				.51	.20	.02				§1.74
Wasola[2]	White		*.18*	*T.*	.01									.71			.12	.84			.14	3.46					2.94	.84	.21				§9.45
Waverly[2]	Missouri		*.15*		T.			T.	T.						T.			.09			T.	.50	.11				.15		.07				§1.07
Wilderness Lookout[2]	White		.06											.65				1.77		*T.*	.25	2.30	.02				2.43	.90	.25				8.63
Southeastern Division																																	
Advance[3] ¼ mile W	St. Francis		T.		.03			T.			.08		.22	.03			.79	.10		T.	.80	1.29				.50	3.58	.07	.01				7.50
Alton(1) 10 miles SE	Black		.01		.03									.46				1.27			.22	2.54				.10	3.75	.53					8.91
Alton(2)[2] 7 miles NE	do		.10		T.							.03		.40		T.		1.20				2.60	.62				2.80	1.63	.41				9.79
Annapolis[2] 7 mi. W	do		.01									T.		.47				.94			.03	2.00	.71				3.82	1.25					9.23
Arcadia[2]	St. Francis		T.								T.				.39		.08	*T.*	.49			1.64	.87					1.00	.07				4.54
Banner[2]	Black													.44				.49			.10	2.07	.25				1.92	*	.77				§6.04
Belleview	Meramec		*.16*								.03			.27			.13	.52		T.	.22	2.18				T.	*	2.91	.06				§6.48
Bernie[2]	St. Francis					T.			.30					.51				1.86				1.45	1.65			1.00	1.10	.94	1.06				9.87
Birch Tree[2] ½ mile E	Black		.03	T.	T.						T.			.39			.27	1.39			.07	2.72	.29				3.66	1.39	.10				10.31
Black 9 miles NW	do		.03										*T.*	.43			.15	.31		.02	.17	2.65				.10	2.70	*	.06				6.62
Bloomfield[2]	St. Francis		.12									.07						.44			.14	2.16	1.53				1.22	1.34	.06				7.08
Bunker[2] 4 miles NW	Black		.05											.41				.69			.05	2.07	.57				2.20	.89					6.93
Campbell	St. Francis		*.20*	T.	.01			.30	T.		.08		.07	.45				1.60			.12	2.25				T.	1.00	.44	.01				§6.53
Cape Girardeau[2]	Mississippi		.05					T				.20		.12			.11	.71			.10	1.32	.60				2.58	1.30	T.				7.09
Caruthersville[2]	do		.07		*T.*	T.		*	.68			.11		.95				1.30	.05		T.	1.20	.57				.20	.20	.32				5.65
Centerville(1)[2]	Black		.02	T.							.02			.37			.05	.77			.07	2.57	.08				3.02	1.04	.08				8.09
Centerville(2)	do		.02	T.	.02	T.						T.		.34			.03	.78			.08	2.00	.54				3.00	1.02	.09				7.92
Cook Station[2]	Meramec		.04					*T.*						.30				.43			*	2.20					.65	1.50	.15				5.27
Crane Mountain[2]	St. Francis		.05								.02	.01		.39			.04	.82			.05	2.24					2.67	1.48	.06				7.83
Crystal City	Mississippi		*.10*								T.			.31			.10	.56			.08	1.40					1.64						§4.19
Cuba	Meramec		.03	.02										.26				.56		*	.13	2.21					1.34	T.					4.55
Deering[2]	St. Francis		.10						.97			.09		.78				1.19				1.19	.34				.61	.77	T.				6.04
De Soto[2]	Mississippi		.03											.32				.89			.05	1.79	.23				.76	.78	.02				4.87
Dexter[2]	St. Fraucis		T.			.03			.10			.04		.46				1.60	.03			1.39	1.88				.86	1.68	.21				8.28
Doniphan(1)	Black							*T.*			.05		.10	.16				1.79			.15	2.75				T	3.38	.67					9.05
Doniphan(2)	do								.05			.12		.20				1.71			.35	1.60	.35				1.65	2.82	.65				9.50
East End[2]	Meramec		.08											.38				.63			.10	2.02	.33				1.63	.62					5.79
Eastwood Lookout[2]	Black		.02		.02						.02	T.		.26			.02	1.00			.06	2.65	.05				3.15	1.50	.22				8.97
Ellingtou[2]	do													.55			.12	.39			T.	2.50	.22				4.27	1.30					9.35
Ellsinore Lookout[2]	do													2.30			.10				.20	1.76					3.55						7.91
Farmington	St. Francis		.05								T.		T.	.39			.07	.38		T.	.14	2.15				T.	2.71		.05				5.94
Fisk[2]	do		.07	.02	T.				T.		T.	T.		.48			T.	1.27				1.63	1.21				1.33	1.49	.36				7.86
Fredericktown[2]	do		.04									T.		.38			.04	.65			.06	1.33	.58				2.88	1.24					7.20
Gerald[2]	Meramec		.06		T.				T.					.12				.70				1.25					.60	.18	.03				2.94
Greenville(1)	St. Francis		.03								T.		T.	.18		.04	.28	.85			.09	2.31					4.85	.25					8.88
Greenville[2](2)	do		.03	T	.02			T.				.02		.23			.36	1.10				1.86	.55				3.53	1.71	.06				9.47
High Lookout[2]	Black		.03	.01	.01						.01			.34			.05	1.39			.09	2.84	.08				3.45	1.32	.23				9.85
Jackson	Mississippi							.11						.39			.17	.89			.19	1.76					4.30	.28					8.09
Jefferson Barracks[2]	Mississippi					.03		T.			T.			.27	*T.*			.55			.05	1.22	.09				.59	.59	T.				3.39
Jerome[2]	Gasconade		*.03*											.30				.75				1.40					.40	.30	.10				§3.28
Koshkonong[2]	Black		.01	*T.*										.35				1.31			.05	3.07					4.39	.31	.36				9.85
Leeper[2]	do		.05		T.	T.						T.		.20			.15	1.17			T.	1.86	.57				2.50	.80	.09				7.39
Licking 4 miles N	Gasconade													.33			.15	.30				3.05					1.65						5.48
Macedonia Lookout[2]	Black		*T.*				.06					.04		.35				1.05			.09	2.75					2.45	1.70	.23				8.72
Malden[3] 4 miles NNW	Mississippi	T.	T.	T.	.07			.24			.09		.41	.04		T.	1.66	.38			1.02	1.21				.14	1.05	.23	.01				6.55
Marble Hill	do				.21												.29	.61			.19	.97					3.80						6.07
Meramec Park[2]	Meramec		.02		T.	T.			T.		T.			.22				.62			.04	1.78	.07				1.07	.18	T.				4.00
Morehouse	Mississippi		T.					.18	T.		.06		T.	.38				1.32			.13	2.27					1.59	.40					6.33
Moselle[2]	Meramec		.12	*T.*			T.	*T.*										.90				1.60	T.				.80	.05					3.47
New Madrid[2]	Mississippi		T.		.03	T.			.60			.15		.60				1.36				1.05	.64				.15	.79	.10				5.47
Oates Tower[2]	Black									.03	T.			.37					T.	.35		2.50	.10				2.38	.98					6.71
Oweusville[2]	Gasconade		.18											.10				.83			T.	1.25					.45	.95	.04				3.80
Pacific[2]	Meramec		*.03*											*.11*				.49				1.29	.29				.87	.15	T.				§3.23
Parma[2]	St. Francis	T.							.48			.07		.49				1.60				1.24	.42				.50	.70					5.50
Perryville	Mississippi		*.20*							*T.*				.41			*	.58			.75	.89				*	4.04						§6.87
Pilot Knob[2] 2 mi. NE	St. Francis										.30				.38		.05		.50	.10		2.06					1.75		*.25*				§5.39
Poplar Bluff[2] (A)	Black		*.10*		T.									.36				1.50				1.50	.72				1.72	1.52	.23				§7.65
Poplar Bluff[2] (B)	do		.02	T.					.01		T.	.05		.30		T.		1.47			T.	1.53	.59				1.50	1.60	.06				7.13
Puxico[2]	St. Francis				T.									.52				1.07			.10	1.55	.75				2.17	1.50	.20				7.86
Qulin[2]	do																	2.30					1.53				1.63	.65	.19				6.30
Reynolds[2]	Black												.30				.06	.73				2.64	.19				2.99	.95	.10				7.96
Richwoods[2]	Meramec		.04			.01								.30				.82				1.71					1.31	.05	T.				4.24

Continued on next page

Daily Precipitation for February 1945—Continued from preceding page

Stations	Drainage basins	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	..	..	..	Total
Southeastern Division –	*Concluded*																																
Rolla[2]	Meramec	....	T.	T.	....	....	....	....	T.	....	....	....	....	.34	....	....	....	.50	....	....	.08	1.42	T.	....	....	....	.70	.65	*.05*	....	....	....	§3.74
Round Spring[2]	Black	....	....	....	....	....	....	....	....	....	....	....	....	.56	....	....	....	.85	....	....	.16	2.55	....	....	....	....	2.47	.82	....	....	....	....	7.41
St. Louis:																																	
City Office[1], [5]	Mississippi	....	.01	T.	T.	T.	....	.02	....	....	T.	....	.04	.13	....	....	.73	.18	....	T.	.08	1.26	T.	T.	....	.47	.63	T.	.02	....	....	....	3.57
Airport[3], [5]	Missouri	....	.01	T.	.01	....	T.	T.	....	....	T.	....	T.	.07	....	....	.50	.12	....	T.	.18	.92	T.	.01	....	.44	.17	T.	.06	....	....	....	2.49
St. Louis Univ.[1], [5]	Mississippi	....	.03	....	.02	T.	....	.05	....	....	T.	....	.03	.17	....	....	.62	.65	....	.01	.06	1.26	T.	T.	....	.73	.72	T.	.03	....	....	....	4.38
Washington Univ.[2]	....do	....	.01	....	....	....	....	.05	....	....	....	....	....	.13	....	....	....	.07	....	....	.04	1.14	.05	....	....	....	.63	.39	.02	....	....	....	2.53
Salem	Meramec	....	T.	.07	....	....	....	....	....	....	....	....	....	.33	....	....	.10	.35	....	....	2.50	....	....	....	....	.11	1.63	....	.10	....	....	....	5.19
Sikeston[2]	Mississippi	....	....	....	....	.03	....	.04	.23	....	....	.06	....	.60	....	.01	....	1.48	....	....	T.	1.36	.83	....	....	....	1.15	*	.19	....	....	....	5.98
Steelville[2] ...2½ mi. NE	Meramec	....	.10	*T.*	....	....	....	....	....	....	.01	....	*	.20	....	....	....	.60	....	....	.11	2.50	*T.*	....	....	....	1.10	.01	....	....	....	....	4.63
Summersville	Black	T.	T.	T.	....	....	....	....	....	....	....	....	T.	.35	....	....	.37	.64	....	T.	.16	2.55	....	....	....	.40	2.82	T.	.07	....	....	....	7.36
Union ....1½ mi. SE	Meramec	....	*.14*	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.56	....	....	....	1.61	....	....	....	.43	.25	....	....	....	....	....	§2.99
Valley Park[2]	....do	....	*.07*	....	....	T.	....	T.	....	....	T.	....	....	.10	....	....	....	.85	....	....	T.	1.70	.30	T.	....	....	.50	.63	T.	....	....	....	§4.15
Van Buren[2]	Black	....	....	....	....	....	....	....	....	....	....	....	....	.30	.10	....	.12	....	....	....	....	2.82	T.	....	....	....	3.25	1.15	....	....	....	....	7.74
Vichy[3] .....2 miles NW	Meramec	.03	.02	T.	T.	....	T.	T.	....	....	T.	....	.24	T.	....	....	.49	T.	....	T.	.14	1.14	T.	....	....	.46	.58	.05	.04	....	....	....	3.19
Wappapello Dam[2]	St. Francis	....	T.	....	.01	T.	....	T.	....	....	....	.06	....	.31	....	T.	....	.98	....	....	.02	1.68	.45	....	....	....	2.45	1.36	.17	....	....	....	7.49
Weingarten	Mississippi	....	....	....	....	....	....	....	....	....	....	....	....	.70	....	....	*T.*	.25	....	....	.10	2.55	....	....	....	....	1.90	....	....	....	....	....	5.50
West Plains[3]	Black	.04	T.	T.	T.	....	....	....	....	....	T.	....	.33	T.	....	....	1.56	.24	....	.06	1.35	1.34	T.	....	....	2.17	2.43	.12	....	....	....	....	9.64
Williamsville[2]	....do	....	.02	....	.02	....	....	.02	....	....	....	.05	....	.21	....	.01	....	1.18	....	....	.03	2.03	.39	....	....	....	2.75	1.76	.24	....	....	....	8.71
Willow Springs .500 ft E	White	T.	.05	.02	....	....	....	....	....	....	T.	....	T.	.33	....	....	.68	.59	....	.03	.42	2.20	....	....	....	.43	3.73	.15	....	....	....	....	8.63
Winona Ranger Sta.[2]	Black	....	.02	....	T.	....	....	....	....	....	T.	T.	....	.05	.20	....	*	1.15	....	....	*	2.62	.01	....	....	....	3.45	1.30	*.30*	....	....	....	§9 10
Zalma[2]	Mississippi	....	....	....	....	....	....	....	....	....	....	....	....	.30	....	....	.48	1.13	....	....	....	2.20	T.	....	....	....	3.52	1.14	.12	....	....	....	8.89
Cairo, Ill.[1], [5]	....do	....	.01	T.	.03	....	....	.31	....	....	.12	....	.43	.05	....	T.	.84	.35	....	....	.69	1.18	....	....	....	.33	1.50	.08	....	....	....	....	5.92
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
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Except as otherwise indicated, amounts are for 24 hours ending late in afternoon. [1] Midnight to midnight. [2] Measured in the morning; for the preceding 24 hours. [3] Data for 24 hours ending 12:30 A. M. (C. S. T.) of following day. [5] Recording gage. T. Trace or 0.005 inch or less. * Included in next measurement. // Windshield on gage. Italics data interpolated. § Partly interpolated. (A) Record from cooperative station gage. (B) Record from river station gage. ‡ Received too late to be included in means and extremes.

Daily Evaporation (inches), Mean Temperature (F°), and Wind Movement (miles) for February 1945

(See precipitation data in daily precipitation table)

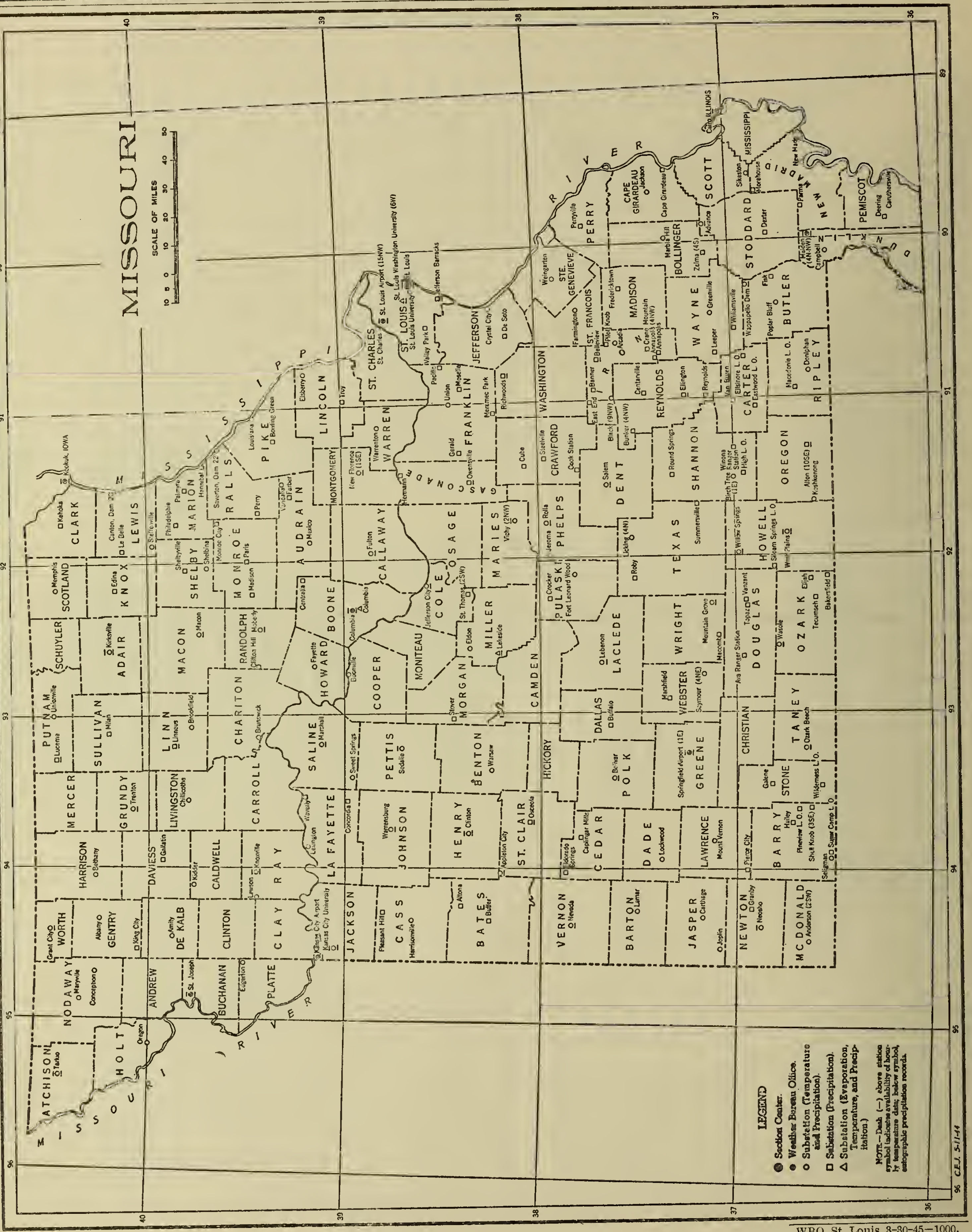
Station	Data	Day of month																															Monthly
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	..	..	..	
Columbia...... (Univ. of Mo. Hort. Exp. Sta. 9 mi. WNW.)	Evaporation	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.....
	Mean temperature	14	24	26	33	27	29	33	31	44	42	41	42	44	52	54	34	21	14	24	30	36	34	40	47	51	38	23	35	..	..	..	34.4
	Wind movement	39	80	122	154	97	72	211	97	80	147	99	21	44	85	200	116	204	24	40	32	111	245	114	75	117	171	29	82	..	..	..	2,908
Lakeside ...... (Osage Dam)	Evaporation	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.....
	Mean temperature	16	24	30	34	30	34	30	36	44	44	41	40	42	48	50	34	26	18	21	30	40	39	44	43	42	22	24	32	..	..	..	34.0
	Wind movement	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
St. Louis .... (Washington University)	Evaporation	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.074	.174	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.....
	Mean temperature	14	17	26	32	30	33	34	32	44	43	42	41	46	51	60	35	25	20	24	30	44	34	40	46	50	22	28	34	..	..	..	34.8
	Wind movement	54	23	35	57	76	39	55	65	38	43	88	37	51	25	99	105	112	72	53	29	46	66	35	31	48	88	40	54	..	..	..	1,514

Observations taken at 8:00 a. m. except at 7:30 a. m. at Lakeside. For Lakeside and St. Louis (Washington University) descriptions see April 1932 and August 1938 reports, respectively. * Included in next measurement.

Daily Temperatures for February 1945

Stations		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	..	..	..	Mean
Northern Division																																	
Brunswick/	Maximum...	22	30	34	36	28	41	35	41	58	45	54	52	57	65	58	36	31	28	30	36	40	41	50	63	53	27	35	45	..	..	..	41.8
	Minimum ...	5	8	21	27	24	20	23	22	21	35	28	31	30	28	40	32	22	19	20	24	29	29	28	30	33	17	15	19	..	..	..	24.3
Chillicothe/	Maximum...	22	30	33	32	30	39	28	41	55	45	53	52	57	64	63	34	30	29	30	38	37	38	52	61	46	30	36	48	..	..	..	41.2
	Minimum ...	2	8	21	25	20	19	23	19	21	32	30	31	28	31	40	30	17	17	21	25	28	26	26	29	37	13	16	19	..	..	..	23.4
Columbia	Maximum...	24	31	33	37	28	41	38	42	56	48	57	51	59	66	65	36	27	25	29	36	41	40	50	63	57	26	34	46	..	..	..	42.4
	Minimum ...	7	21	25	28	23	22	24	21	39	30	29	34	31	42	36	24	15	6	22	28	30	30	32	37	23	17	18	28	..	..	..	25.8
Fayette	Maximum...	22	30	33	36	30	42	40	42	57	52	56	58	52	65	64	45	30	26	29	35	40	41	51	64	57	46	33	46	..	..	..	43.6
	Minimum ...	5	19	25	29	28	17	26	21	32	32	25	29	29	40	44	25	17	5	21	21	32	29	29	31	44	11	16	27	..	..	..	25.3
Grant City	Maximum...	15	26	29	30	30	35	37	38	52	42	50	55	55	61	59	36	25	28	37	36	36	32	44	53	48	28	38	43	..	..	..	39.2
	Minimum ...	−1	13	23	25	13	20	21	12	28	29	29	32	30	32	34	18	11	17	18	25	24	24	18	34	16	9	9	19	..	..	..	20.8
Hannibal	Maximum...	18	25	31	35	29	35	35	33	51	42	50	49	56	63	62	35	27	30	29	36	43	35	47	62	57	25	35	44	..	..	..	40.0
	Minimum ...	−4	13	20	28	24	24	25	19	30	32	28	32	32	39	33	25	14	14	20	27	33	28	26	35	20	14	17	22	..	..	..	23.9
Kansas City Airport.	Maximum...	22	33	35	35	39	46	35	47	59	46	57	56	56	67	55	37	31	26	30	34	35	44	55	61	52	32	33	44	..	..	..	42.9
	Minimum ...	15	21	30	26	19	29	24	19	39	34	35	33	30	45	37	25	19	21	25	28	30	27	31	34	19	14	20	27	..	..	..	27.0
Kirksville	Maximum...	15	27	29	33	29	34	34	35	51	47	44	49	54	60	58	38	27	29	30	35	37	34	47	59	55	30	36	46	..	..	..	39.4
	Minimum ...	−3	12	20	27	21	17	24	17	32	32	29	31	30	38	38	27	12	15	21	25	32	25	21	33	29	12	16	24	..	..	..	23.5
Lawson	Maximum...	20	31	33	32	36	40	38	42	58	50	52	54	55	65	54	39	29	27	29	35	36	40	51	61	50	30	38	44	..	..	..	41.8
	Minimum ...	12	18	26	27	13	24	22	14	35	31	29	31	27	39	39	27	17	19	23	27	30	28	26	33	22	13	15	27	..	..	..	24.8
Louisiana/	Maximum...	20	26	33	37	38	38	35	36	55	42	54	51	56	65	65	33	27	30	30	37	48	35	42	63	60	25	35	45	..	..	..	41.5
	Minimum ...	−2	2	19	24	27	26	27	22	22	35	25	27	30	31	43	31	18	3	5	21	30	30	20	29	31	18	18	22	..	..	..	22.6
Macon/	Maximum...	20	28	33	34	25	37	32	41	55	43	51	52	56	58	56	32	27	30	29	35	38	36	48	62	52	26	36	45	..	..	..	39.9
	Minimum ...	−2	0	17	24	22	18	22	18	19	33	30	30	30	29	38	30	17	15	18	22	28	27	27	27	35	15	14	17	..	..	..	22.1
Maryville	Maximum...	16	27	29	27	28	35	32	39	53	46	50	56	54	62	56	34	25	25	26	35	31	35	45	54	52	28	32	41	..	..	..	38.3
	Minimum ...	0	12	22	24	4	20	18	10	30	26	25	32	30	35	34	20	10	17	19	23	24	21	17	28	16	8	12	18	..	..	..	19.8
Mexico/	Maximum...	25	29	34	39	28	39	35	41	*56*	46	54	50	57	65	63	33	30	28	31	36	44	37	49	63	60	25	35	46	..	..	..	42.1
	Minimum ...	4	5	12	24	25	21	24	21	20	33	29	31	29	29	40	30	17	−4	−4	19	27	28	30	30	30	18	15	20	..	..	..	21.5
Moberly/	Maximum...	20	27	33	35	26	40	32	40	56	45	52	51	57	63	60	32	28	27	29	35	40	37	46	67	55	25	32	45	..	..	..	40.5
	Minimum ...	0	4	19	24	21	18	25	19	20	33	29	31	28	32	41	30	17	15	19	22	29	29	28	29	37	16	15	20	..	..	..	23.2
Oregon	Maximum...	21	32	30	32	37	40	37	45	56	50	55	58	52	66	61	39	32	28	27	35	34	38	45	60	51	32	36	46	..	..	..	42.0
	Minimum ...	0	18	26	21	9	27	21	15	35	28	32	34	30	41	37	24	13	21	24	25	28	21	22	35	17	11	21	23	..	..	..	23.5
St. Charles/	Maximum...	25	26	36	41	31	38	38	38	59	51	60	51	59	68	73	35	33	29	32	37	57	*37*	51	52	65	31	..	48	..	..	..	^{a}44.5
	Minimum ...	5	5	17	25	29	28	27	25	25	35	28	28	30	35	42	33	22	9	13	19	32	32	27	27	28	22	14	..	..	..	..	^{a}24.5
St. Joseph	Maximum...	22	31	32	32	37	40	33	46	56	43	55	57	52	65	52	34	30	28	28	35	33	40	50	61	50	31	37	44	..	..	..	41.2
	Minimum ...	13	21	27	24	14	28	21	16	37	33	34	37	33	43	34	21	17	23	26	28	29	26	28	37	16	13	19	25	..	..	..	25.8
Trenton	Maximum...	28	27	31	32	33	38	28	39	52	47	48	50	56	62	58	40	27	28	27	35	37	37	52	61	57	31	37	46	..	..	..	40.9
	Minimum ...	−2	17	20	26	19	*19*	25	19	32	32	29	30	30	48	40	27	16	21	20	27	30	27	25	32	25	12	15	24	..	..	..	24.5
Unionville/	Maximum...	15	25	29	34	25	35	34	37	53	40	45	51	56	60	50	33	28	30	30	37	42	37	48	55	51	30	42	46	..	..	..	39.2
	Minimum ...	−5	−5	12	20	18	14	17	14	13	28	25	29	30	30	36	26	12	9	14	16	27	22	16	16	30	10	11	14	..	..	..	17.8
Warrenton	Maximum...	22	27	30	38	35	40	38	40	57	55	58	58	58	67	72	50	30	29	30	37	55	55	52	63	63	52	37	46	..	..	..	46.2
	Minimum ...	−2	17	18	27	21	25	28	22	32	34	24	29	38	40	46	27	19	0	8	27	32	30	26	27	41	17	11	21	..	..	..	24.5
Keokuk, Iowa	Maximum...	20	23	27	33	32	35	33	33	48	40	42	46	52	55	55	33	22	27	31	36	37	32	45	56	51	26	33	43	..	..	..	37.4
	Minimum ...	−2	14	22	27	25	24	24	21	33	31	29	30	33	39	33	18	11	14	18	27	27	25	24	33	17	14	20	24	..	..	..	23.4
Southwestern Division																																	
Clinton	Maximum...	22	35	36	38	37	50	45	48	64	54	62	51	60	70	65	45	29	26	33	36	38	40	55	49	60	31	34	43	..	..	..	44.9
	Minimum ...	16	22	28	32	24	25	27	18	38	35	30	32	28	38	45	29	22	9	22	31	34	29	29	33	31	17	15	28	..	..	..	27.4
Eldon	Maximum...	20	32	33	34	34	46	46	47	67	55	59	53	61	67	69	41	27	27	31	34	47	44	56	64	59	49	33	47	..	..	..	45.8
	Minimum ...	10	22	22	25	25	20	26	21	37	33	33	32	33	40	40	26	20	8	22	29	33	29	30	29	42	17	11	28	..	..	..	26.5
Harrisonville/	Maximum...	24	33	35	35	39	48	27	46	62	49	58	51	61	68	60	35	30	24	30	34	36	45	55	61	51	30	33	44	..	..	..	43.0
	Minimum ...	8	14	22	28	18	19	24	14	15	31	27	32	29	33	40	31	19	9	13	21	28	24	25	27	40	13	14	22	..	..	..	22.9
Jefferson City/	Maximum...	24	31	36	37	30	43	35	44	65	50	59	49	61	67	69	34	28	29	31	36	50	53	54	64	59	24	36	48	..	..	..	44.5
	Minimum ...	7	10	22	27	28	22	26	23	23	36	29	30	33	33	39	32	22	9	9	23	31	31	33	32	32	22	14	18	..	..	..	24.9
Joplin	Maximum...	28	38	40	42	36	57	43	56	69	52	59	51	62	70	67	43	32	38	34	41	44	48	57	60	58	27	27	40	..	..	..	47.1
	Minimum ...	23	28	34	31	29	26	27	23	49	38	32	40	38	45	43	32	23	20	30	33	33	30	32	40	27	17	20	27	..	..	..	31.1
Lamar/	Maximum...	36	39	38	38	37	56	33	52	69	55	60	51	62	72	70	39	30	37	34	38	39	49	59	63	59	27	33	42	..	..	..	47.0
	Minimum ...	10	18	24	31	26	22	25	16	17	32	26	29	26	26	36	34	22	15	17	23	30	27	25	25	31	18	11	18	..	..	..	23.6
Lebanon	Maximum...	27	34	33	36	33	44	43	49	70	56	58	57	59	63	71	61	31	32	32	37	52	45	55	59	59	52	31	42	..	..	..	47.2
	Minimum ...	9	20	23	30	25	23	25	21	34	34	27	31	34	40	48	30	21	10	20	31	34	28	29	30	42	17	11	26	..	..	..	26.9
Lexington/	Maximum...	24	32	35	36	37	45	29	44	59	49	58	55	57	68	59	35	33	28	30	35	38	44	54	64	53	29	37	..	..	..	..	^{a}43.2
	Minimum ...	13	14	24	28	19	20	26	18	19	33	34	37	29	30	43	31	21	19	20	24	30	28	29	31	36	16	16	23	..	..	..	25.4
Marshall	Maximum...	22	30	33	..	35	43	43	43	57	57	..	56	59	68	66	*46*	31	29	29	35	39	42	52	64	63	58	53	52	..	..	..	^{b}46.3
	Minimum ...	10	19	26	..	21	21	26	20	38	33	..	30	29	41	*46*	28	20	10	22	26	32	28	30	36	*42*	12	17	25	..	..	..	^{b}26.5
Mountain Grove	Maximum...	29	31	32	37	36	42	41	47	70	70	56	56	54	55	75	71	34	35	36	40	51	51	55	56	56	50	30	40	..	..	..	47.7
	Minimum ...	12	18	26	28	25	23	26	20	34	35	26	32	35	37	48	33	24	14	21	29	36	29	30	36	40	20	18	25	..	..	..	27.9
Neosho	Maximum...	32	40	39	42	36	55	53	55	71	68	62	58	62	70	70	64	36	43	42	41	45	39	59	61	59	55	31	44	..	..	..	51.1
	Minimum ...	22	27	33	35	29	21	30	16	36	38	22	27	31	35	52	36	27	20	30	35	38	37	25	31	45	21	19	26	..	..	..	30.1
Nevada	Maximum...	26	39	36	37	39	56	52	50	68	66	60	54	63	71	66	50	32	33	34	36	38	48	58	61	60	34	33	43	..	..	..	48.0
	Minimum ...	17	24	32	34	27	24	27	11	38	33	28	32	24	36	49	32	23	13	21	30	33	28	26	32	34	17	15	26	..	..	..	27.4
Sedalia	Maximum...	23	34	35	34	35	45	43	45	60	55	58	54	59	68	67	47	30	28	32	35	39	41	52	62	59	50	35	45	..	..	..	45.4
	Minimum ...	12	20	27	30	23	23	26	19	38	32	29	34	29	49	47	29	20	4	21	28	32	28	29	34	38	15	13	27	..	..	..	27.0
Springfield .. ½ mile E	Maximum...	23	34	32	36	32	44	39	49	71	49	57	49	58	63	70	38	30	36	32	42	46	45	55	58	58	27	29	39	..	..	..	44.3
	Minimum ...	16	20	28	28	26	25	22	17	37	29	26	34	35	40	38	30	18	16	25	30	30	28	30	36	27	18	18	26	..	..	..	26.9
Warrensburg	Maximum...	25	34	35	36	37	49	47	44	61	58	57	55	59	67	67	47	31	28	30	36	38	44	54	62	59	36	33	44	..	..	..	45.5
	Minimum ...	13	21	28	31	20	24	24	18	39	33	30	33	30	35	47	29	20	9	22	27	32	26	..	35	36	15	17	27	..	..	..	^{a}26.7
Southeastern Division																																	
Arcadia/	Maximum...	27	25	32	40	37	40	40	45	60	60	63	47	60	68	85	50	26	45	35	45	70	50	62	65	74	37	34	56	..	..	..	49.2
	Minimum ...	3	6	10	21	29	24	25	25	26	24	21	20	25	32	40	34	25	13	12	19	31	32	33	24	25	29	31	21	..	..	..	23.6
Birch Tree .. ½ mile E	Maximum...	26	32	30	42	..	42	39	49	71	64	56	46	..	57	79	64	34	36	34	38	58	51	..	60	62	50	30	41	..	..	..	^{c}47.6
	Minimum ...	11	20	26	28	..	27	29	23	26	37	18	25	..	30	50	32	27	16	21	31	38	34	..	25	35	23	20	28	..	..	..	^{c}27.2
Caruthersville/	Maximum...	29	33	45	51	37	44	43	46	65	49	56	47	55	62	74	49	37	42	42	57	65	51	58	62	65	61	33	41	..	..	..	50.0
	Minimum ...	14	16	21	30	32	27	31	28	29	33	27	27	32	37	39	42	33	25	26	28	39	38	32	33	32	45	26	27	..	..	..	30.3
Crystal City	Maximum...	25	29	30	40	37	39	39	41	71	69	59	57	57	65	81	73	34	34	31	37	65	61	54	64	66	62	39	46	..	..	..	50.2
	Minimum ...	0	17	20	29	28	27	31	25	27	30	22	25	38	33	48	31	24	3	14	29	32	32	24	23	36	19	18	27	..	..	..	25.4
Doniphan	Maximum...	27	34	34	53	41	45	45	50	71	70	56	47	60	62	80	75	42	42	40	44	69	62	61	63	65	53	33	42	..	..	..	52.4
	Minimum ...	13	20	20	30	32	30	32	27	31	33	19	22	40	34	42	39	30	19	23	35	40	37	26	25	31	32	24	30	..	..	..	29.1
Farmington	Maximum...	24	27	31	41	36	39	40	46	71	65	56	51	54	61	79	71	32	31	34	36	65	55	54	59	64	52	32	46	..	..	..	48.3
	Minimum ...	3	17	18	28	27	24	30	25	32	35	24	31	38	39	50	31	24	11	17	30	33	32	30	28	39	18	20	26	..	..	..	27.1
Jackson	Maximum...	24	31	33	44	42	37	40	44	65	65	66	53	54	60	74	73	38	35	37	41	66	65	55	59	63	58	58	41	..	..	..	50.8
	Minimum ...	4	18	17	31	30	26	34	27	32	36	37	24	40	38	48	35	28	17	21	32	37	35	30	27	37	25	22	28	..	..	..	29.1
Poplar Bluff	Maximum...	30	31	34	52	49	43	43	49	50	57	45	45	60	64	78	60	35	40	40	47	59	51	60	62	65	55	40	40	..	..	..	49.4
	Minimum ...	12	20	25	30	32	23	29	27	29	23	24	23	40	36	40	33	22	14	23	38	40	32	31	38	33	38	24	30	..	..	..	28.9
Rolla/	Maximum...	26	33	36	38	30	42	34	47	71	50	57	50	59	64	74	35	29	33	32	43	53	44	55	59	60	22	35	45	..	..	..	44.9
	Minimum ...	8	10	21	26	27	26	27	22	23	35	30	31	34	34	42	33	23	11	18	22	32	30	30	30	35	20	14	22	..	..	..	25.6
St. Louis	Maximum...	23	27	33	39	32	36	40	37	61	47	56	50	55	63	74	40	27	27	31	38	57	42	48	60	63	36	37	42	..	..	..	43.6
	Minimum ...	8	19	24	32	28	29	28	25	34	36	33	38	37	42	40	27	20	14	19	30	36	32	34	37	36	18	23	27	..	..	..	28.8
Salem	Maximum...	27	32	31	40	35	42	39	47	72	60	58	49	55	60	78	63	36	35	35	38	56	51	55	58	61	49	33	45	..	..	..	47.9
	Minimum ...	7	19	22	28	27	26	28	22	33	35	23	31	37	38	47	30	24	10	20	30	35	31	31	27	41	19	17	26	..	..	..	27.3
Sikeston/	Maximum...	31	34	37	43	50	49	41	47	59	55	52	51	57	63	76	58	40	37	44	52	66	56	65	64	58	41	31	42	..	..	..	50.0
	Minimum ...	15	18	21	31	33	34	35	28	28	35	31	33	33	41	43	36	31	20	21	25	35	35	30	34	43	38	19	24	..	..	..	30.4
Union ...... 1½ mi. SE	Maximum...	24	29	32	39	37	42	41	41	62	58	58	56	57	66	74	56	30	28	31	38	58	55	52	62	60	52	37	44	..	..	..	47.1
	Minimum ...	3	23	21	30	28	27	29	25	29	33	22	25	36	36	45	28	23	0	12	29	33	32	25	24	38	18	10	28	..	..	..	25.4
West Plains	Maximum...	24	33	31	44	34	45	39	50	71	53	58	45	54	55	79	45	33	38	36	41	56	47	58	60	56	50	30	39	..	..	..	46.6
	Minimum ...	15	20	27	31	29	28	28	23	27	28	19	24	31	31	45	32	22	18	23	31	37	32	30	26	32	23	22	27	..	..	..	27.2
Cairo, Ill.	Maximum...	24	31	35	46	37	39	42	41	64	51	51	50	54	61	72	48	36	38	40	46	64	50	55	59	63	59	32	41	..	..	..	47.5
	Minimum ...	11	21	24	35	31	31	33	31	35	33	26	32	42	40	48	36	27	22	26	38	46	38	37	36	45	26	26	31	..	..	..	32.4

/ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs. ^{a}, ^{b}, ^{c}, etc., number of days missing, for example, ^{b} indicates two days missing. Italics data interpolated. § Partly interpolated.



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CLIMATOLOGICAL DATA

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Vol. XLVIV — March 1945 — No. 3

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GENERAL SUMMARY

March was unusually warm and wet and it was the first month since October with sunshine normal or above. It was the fourth-warmest month of its name in the past 58 years, only March of 1938, 1910, and 1907 having a higher monthly average. Also, it was the wettest March of record (1888-1945), except for 1898, when the State average precipitation was exactly the same as for the current month, 7.44 inches. There were no destructive storms during the month, only one local minor windstorm being reported.

Daily temperatures averaged warmer than normal, except from the 6th to the 8th, when the only cold period of the month occurred. The 7th was the coldest, and the 16th and 27th were the warmest days of the month, generally. No freezing temperatures occurred, as a rule, after the 10th. All three divisions of the State had monthly averages of approximately eight degrees above their respective normals. There were no unusual extremes of temperature, for the month as a whole, however at some stations the highest for a given day was equalled or exceeded on the 16th.

The frequent and heavy to excessive precipitation resulted in one or more overflows in most streams of the State, especially those in the southern half, inundating lowlands and making it impossible to do any seasonal work, such as preparing the ground for spring plantings. Even on higher ground plowing and planting operations were seriously curtailed and interrupted by the frequency of the rains, with the result that very little planting of early truck and field crops, and gardens was accomplished. The excess of precipitation was general over the entire State. The Southeastern Division received the most precipitation with an average of 10.25 inches, while the Southwestern and Northern Divisions received 6.98 inches and 5.10 inches, respectively.

Snowfall during March occurred on only one or two days, the 6th and 20th, as a rule. Over the southern third of the State the fall was generally too light to be measurable, while over the Northern Division monthly totals ranged from a Trace to as much as 9.0 inches. Some stations had no snowfall during the month. All of the snow quickly melted and the ground was not covered for any appreciable time at any station.

All grass and fall-sown small grains made rank growth during March, and were in excellent condition at the close of the month, except on overflowed lowlands. Fruit trees bloomed profusely and unusually early this year and there was much apprehension that a later frost, or freeze, would ruin or seriously impair the best prospect in recent years for a large fruit crop. Very few oats were sown during the month, because of the continued wet weather, and all field work, including the planting of potatoes and early gardens was interrupted or delayed for the same reason. A prolonged period of warm, dry weather was badly needed at the close of the month, in order that the seasonal work of plowing and planting could get underway and proceed without interruption.—M. R. W.

(Continued on page 19)

PRESSURE, WIND, HUMIDITY, AND SUNSHINE

Stations	Sea-level pressure, extremes-inches: Highest	Date	Lowest	Date	Wind: Average hourly velocity	Maximum velocity	Direction	Date	Relative humidity ¶: 6:30 a. m.	12:30 p. m.	6:30 p. m.	Percentage of sunshine	Degree days
Columbia	30.40*	7	29.40*	15	8.7	24	sw.	27	79*	58*	58*	69	410
Kan. City Airp't.	30.43	7	29.38	15	12 0	33	sw.	27	77	55	53	64	423
St. Joseph	30.42*	7	29.36*	15	9.7	29	nw.	17	81*	55*	58*	66	452
St. Louis	30.39*	8	29.52*	15	13.6	40	sw.	16	79	61	62*	61	356
Springfield	30.38	7	29.43	15	12.1	50	s.	15	84	64	65	54	414
Cairo, Ill.	30.40	1	29.57	6	9.7	31	sw.	15	85	65	..	55	269

* Data for Airport station. ¶ C. S. T.

COMPARATIVE DATA FOR MARCH

Year	Temperature: Average for State	Highest	Lowest	Precipitation: Average for State	Average, Northern Division	Average, Southwestern Division	Average, Southeastern Division	Snowfall, Average for State	Number of days: Precip. .01 inch or more	Clear	Partly cloudy	Cloudy
1888	38.5	90	1	3.90	4.13	4.37	3.19	....	10	..	..	..
1889	44.3	84	13	2.22	1.26	3.37	2.02	....	5	..	..	..
1890	37.3	79	−11	3.51	2.00	2.40	6.12	5.7	8	..	..	..
1891	36.6	78	−11	2.66	3.03	2.26	2.68	7.1	10	..	..	..
1892	38.9	87	5	2.98	3.31	3.46	2.18	....	8	8	10	13
1893	40.5	86	0	2.92	2.49	2.71	3.57	3.2	7	11	10	10
1894	47.7	89	2	3.22	2.29	2.95	4.43	0.2	6	15	9	7
1895	42.4	98	0	2.36	1.49	2.39	3.21	4.4	9	14	7	10
1896	39.2	82	2	2.22	1.15	2.04	3.47	5.2	8	11	9	11
1897	44.2	82	− 5	6.73	4.38	5.62	10.18	1.0	12	9	9	13
1898	44.7	83	9	7.44	5.26	6.42	10.63	0.6	11	11	7	13
1899	37.4	78	− 8	2.92	3.19	2.34	3.23	8.9	10	9	11	11
1900	40.4	88	− 4	1.52	1.43	1.35	1.79	0.2	6	15	9	7
1901	42.7	85	− 1	3.77	3.33	4.21	3.77	1.8	8	11	8	12
1902	45.3	85	1	3.71	2.50	4.64	3.99	0.8	9	10	10	11
1903	46.8	81	9	3.62	2.34	4.17	4.34	1.1	8	13	7	11
1904	44.8	87	8	4.55	3.54	3.13	6.98	1.2	9	11	9	11
1905	50.3	88	10	3.15	2.27	3.36	3.83	T.	8	11	8	12
1906	34.6	75	− 5	3.98	2.63	3.12	6.18	8.6	11	6	7	18
1907	53.9	95	16	2.76	2.54	3.05	2.70	1.0	7	14	7	10
1908	50.1	89	14	2.98	1.38	3.33	4.22	1.0	7	14	7	10
1909	44.5	81	9	3.03	2.24	2.01	4.83	0.6	6	13	9	9
1910	55.8	96	15	0.77	0.26	1.00	1.05	0.1	2	20	7	4
1911	46.8	91	5	1.72	1.71	1.84	1.62	1.4	6	16	8	7
1912	35.2	89	− 4	4.69	3.69	5.25	5.12	16.5	11	12	6	13
1913	40.6	84	−12	4.64	3.44	4.52	5.95	5.0	9	12	8	11
1914	43.2	87	− 2	2.76	2.80	2.89	2.59	4.7	8	13	7	11
1915	36.4	70	6	1.45	1.20	2.01	1.15	7.9	6	7	8	16
1916	47.0	95	− 2	2.55	2.48	3.20	1.98	3.1	7	14	8	9
1917	45.2	86	− 7	2.69	2.70	2.80	2.57	1.5	7	15	7	9
1918	50.9	95	8	1.02	0.46	1.55	1.06	0.1	4	18	6	7
1919	46.3	90	− 2	2.40	2.27	1.44	3.49	0.7	6	15	8	8
1920	44.6	86	− 6	5.12	4.60	5.37	5.40	1.4	8	15	6	10
1921	51.9	90	11	5.06	3.52	5.32	6.34	0.5	10	13	9	9
1922	45.6	80	3	6.39	4.89	6.78	7.51	2.2	12	11	6	14
1923	40.4	83	−11	4.23	3.53	3.64	5.52	2.3	8	14	6	11
1924	38.4	80	8	2.54	2.52	2.40	2.71	9.4	8	8	8	15
1925	47.7	86	− 5	1.94	1.77	1.98	2.07	0.8	5	17	8	6
1926	39.6	83	8	2.87	2.15	2.82	3.63	7.0	8	13	6	12
1927	45.9	80	0	5.93	4.08	6.88	6.83	3.7	11	12	8	11
1928	46.3	89	10	1.61	1.00	1.58	2.24	2.4	5	15	9	7
1929	48.6	97	11	3.33	2.99	3.13	3.88	T.	8	12	8	11
1930	43.2	80	6	1.38	1.19	0.91	2.04	1.4	4	18	6	7
1931	39.5	70	10	3.18	2.57	3.05	3.91	8.8	8	11	7	13
1932	38.3	81	− 2	1.99	1.39	1.62	2.96	2.8	7	12	9	10
1933	44.1	87	5	3.61	3.05	2.79	4.99	2.0	10	11	8	12
1934	41.2	82	− 3	2.55	1.53	2.10	4.03	4.9	7	13	8	10
1935	50.4	87	8	5.76	2.46	5.10	9.73	0.7	9	10	10	11
1936	49.4	84	13	1.27	0.82	1.00	1.98	T.	5	16	9	6
1937	40.4	77	6	1.66	1.27	2.15	1.56	2.8	6	12	8	11
1938	53.6	90	14	4.98	3.73	4.42	6.79	T.	12	13	7	11
1939	47.1	89	− 4	3.08	3.33	2.20	3.70	0.2	8	15	7	9
1940	43.1	89	0	2.44	2.07	2.43	2.83	4.0	8	9	9	13
1941	40.5	78	7	0.78	0.86	0.76	0.72	3.4	5	13	9	9
1942	45.8	84	8	2.05	2.05	1.48	2.63	0.7	7	12	8	11
1943	39.7	87	−22	2.63	1.41	2.58	3.90	5.0	8	13	9	9
1944	41.4	83	6	3.78	4.10	3.85	3.39	2.7	12	10	8	13
1945	52.6	89	2	7.44	5.10	6.98	10.25	1.0	12	13	7	11
Period	**44.0**	**98**	**−22**	**3.25**	**2.54**	**3.15**	**4.06**	**3.0**	**8**	**13**	**8**	**10**

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Climatological Data for March 1945

Stations	Counties	Elevation, feet	Temperature, in degrees Fahr.								Precipitation, in inches						Number of days				Prevailing direction of wind	Observers
			Length of record, years	Mean	Departure from the normal	Highest	Date	Lowest	Date	Length of record, years	Total	Departure from the normal	Greatest in 24 hours [4]	Date	Total snowfall, unmelted	With precip., .01 inch or more	Clear	Partly cloudy	Cloudy		
Northern Division																					
Albany	Gentry	930	4	49.4	......	83	27	3	7	16	2.62	+0.93	0.93	24-25	1.0	9	20	4	7	s.	Curtis E. Grace
Bethany	Harrison	916	50	49.2	+ 8.9	81	27	4	7	52	2.57	+0.34	0.91	14-15	0	7	15	8	8	se.	A. S. Cumming
Brookfield	Linn	767	4	49.4	......	82	23†	6	7	4	4.73	......	1.34	24-25	4.5	11	14	4	13	e.	G. F. Breen
Brunswick	Chariton	652	64	49.6	+ 7.7	82	27	7	8	66	5.14	+2.44	1.32	25	4.0	13	16	3	12	sw.	O. K. Benecke
Canton, Lock & Dam 20	Lewis	488	7	48.6	......	83	16	16	8	15	5.29	+2.95	1.27	20-21	3.0	12	12	9	10	se.	Lockmaster
Chillicothe	Livingston	779	36	47.2	+ 5.5	83	27	6	7	39	3.27	+0.79	1.18	24	*4.0*	9	20	2	9	sw.	Wm. J. Olenhouse
Clifton Hill	Randolph	731	46	....	......	..	..	..	..	36	....	......	....	..	....	..	..	..	..	......	Dr. A J. Bradsher
Columbia	Boone	740	55	52.4	+ 9.5	87	16	14	7	55	6.04	+3.10	1.31	19-20†	2.6	10	14	10	7	s.	U. S. Weather Bureau
Conception	Nodaway	1,108	56	49.4	+ 9.6	76	16	3	7	61	§2.92	+1.27	1.22	14-15	0.5	7	11	12	8	sw.	Fr. Adelhelm Hess
Edgerton	Platte	856	25	51.4	+ 8.2	80	16†	13	7	42	3.85	+1.59	0.97	18-19	2.8	8	23	2	6	s.	Paul C. Handley
Elsberry	Lincoln	449	14	52.7	+ 9.2	86	16	25	7	14	7.95	+5.19	1.72	25	0	11	11	12	8	s.	John Dowell
Fayette	Howard	760	65	51.6	+ 9.7	84	16†	11	7	62	5.46	+2.64	1.27	19-20	1.0	9	17	3	11	sw.	Irvin E. Schnell
Fulton	Callaway	818	57	50.2	+ 6.1	87	16	20	7	53	5.97	+3.01	1.61	24-25	3.2	12	17	3	11	s.	Frank E. Hillgartner
Grant City	Worth	1,134	41	48.5	+ 7.2	80	27	2	7	53	2.54	+0.53	1.12	24-25	0.2	8	18[a]	6[a]	6[a]	w.	J. Homer Korn
Hannibal	Marion	759	53	50.9	+ 9.9	86	16	20	7	61	6.19	+3.59	1.75	20	5.0	9	12	9	10	s	Hannibal Water Dept.
Kansas City Airport	Jackson	741	56	51.8	+ 9.1	82	27	9	7	56	4.32	+2.01	0.85	19	3.2	12	10	9	12	s.	U. S. Weather Bureau
Kansas City Univ.	Jackson	908	7	51.9	......	83	27	9	7	7	5.12	......	1.03	28-29	3.3	11	10	10	11	sw.	University of Kansas City
Kidder	Caldwell	1,020	53	48.6	+ 7.8	81	27	3	7	57	§4.36	+2.17	0.85	11	2.7	13	16	2	13	s.	Mrs. Geraldine Terry
Kirksville	Adair	969	56	50.8	+11.1	84	27	11	7	63	4.01	+1.07	1.53	25	2.2	11	12	6	13	sw.	P. O. Selby
Lawson	Ray	1,070	7	50.2	......	80	27	2	7	7	4.23	......	1.12	24	2 2	8	14	7	10	s.	Elmer E. Lamb
Louisiana	Pike	469	51	49.6	+ 6.1	86	16	21	6	64	6.70	+3.23	1.90	25	1.0	11	13	11	7	s.	Stark Bro's Nurseries
Macon	Macon	875	46	48.8	+ 6.6	83	16†	13	8	52	3.95	+1.11	1.26	24-25	4.0	11	14	6	11	nw.	John W. Atwell
Maryville	Nodaway	1,169	55	47.6	+ 9.7	79	27	3	7	51	3.96	+2.19	1.99	14-15	0.5	12	19	5	7	sw.	R. B. Montomery
Memphis	Scotland	787	6	47.6	......	82	16†	8	8	15	§3.13	+0.77	1.18	24-25	1.4	9	17	4	10	sw.	John W. Alexander
Mexico	Audrain	800	56	50.0[b]	+ 8.0	87[c]	16	19	8	67	6.60	+3.69	1.85	25	1.7	11	15	6	10	sw.	Darrence W. Stuart
Moberly ....3½ mi. NE	Randolph	860	8	50 0	......	85	16	12	7	8	6.04	......	1.46	24	3.7	12	15	5	11	s.	F. W. Bell
New Florence. 1 mi SE	Montgomery	885	2	50 8	......	84	16	21	7	3	6.73	......	1.66	25	2.0	11	7	8	16	s.	U. S. Weather Bureau
Oregon	Holt	1,048	89	50.7	+11.1	81	27	5	7	89	3.03	+1.07	1.26	24	1.5	7	17	10	4	sw.	Miss Mina Wright
St. Charles	St. Charles	520	57	52.5	+ 8.0	89	16	25	7†	67	6.69	+3.52	1.16	2	*0.3*	14	14	10	7	s.	Martin L. Comann
St. Joseph	Buchanan	957	35	50.6	+10.1	81	27	10	7	73	3.84	+1.36	1.44	11	1.5	11	21	4	6	s.	U. S Weather Bureau
Saverton, Lock No. 22.	Ralls	472	7	51.0	......	86	16	21	7	7	7.03	......	2.05	25	3.0	10	19	3	9	se.	Lockmaster
Shelbina	Shelby	779	4	50.4[a]	......	85[a]	16	10[a]	7	52	6.07	+3.28	2.00	24-25	4.5	9	14[a]	8[a]	8[a]	sw.	Guyman Hatcher
Steffenville	Lewis	650	47	50.5	+ 8.3	83	16	9	7	52	4.27	+1.26	1.48	24-25	2.0	9	17	5	9	s.	Mrs. Fannie V. Gross
Tarkio	Atchison	916	42	46.5	+ 6.4	80	27	8	7	51	3.56	+1.89	1.87	14-15	0.7	8	13	8	10	s.	C. A. A. Station
Trenton	Grundy	822	49	50.2	+ 9.1	82	27	12	7	50	4.36	+1.91	0.91	24-25	3.0	11	15	7	9	s.	W. H. Estes
Unionville	Putnam	1,062	52	47.0	+ 8.1	87	28	5	7†	52	3.69	+1.19	0.97	24-25	1.5	10	15	8	8	w.	C. D. Wilson
Vandalia	Audrain	766	1	52.0	......	88	16	20	6†	6	§6.17	......	1.83	25	1.5	14	13	6	12	s.	H. G. McIntire
Warrenton	Warren	816	63	53.6	+11.1	88	16	21	7†	55	6.97	+3.79	1.59	25	1.2	13	18	4	9	sw.	W. T. Zimmerman
Keokuk, Iowa	Lee, Ia	574	73	51.2	+12.3	84	16	18	7	73	4.44	+2.06	1.86	24-25	3.2	13	12	9	10	sw.	U. S. Weather Bureau
Division means	**and extremes**	.....	..	**50.1**	**+ 8.7**	**89**	**16**	**2**	**7**	..	**5.10**	**+2.56**	**3.25**	**20**	**2.2**	**10**	**15**	**7**	**9**	**s.**	
Southwestern Division																					
Anderson ...1½ mi SW	McDonald	1,000	41	52.4	+ 3.6	84	29	13	7	46	8.79	+5.09	2.38	18-19	0	12	8	6	17	sw.	Samuel G. Chamberlain
Appleton City	St. Clair	813	50	52.4	+ 7.3	82	16†	14	7	53	4.80	+1.65	1.46	18-19	1.0	10	17	1	13	sw.	Rolla Brown
Bolivar	Polk	1,071	42	54.0	+ 7.7	85	16	16	7	50	6.66	+3.23	1.36	24-25	0	13	11	9	11	s.	Southwest Baptist College
Boonville	Cooper	650	7	50.8	......	85	16	15	7†	68	6.55	+3.51	1.12	1-2	1.5	12	12	10	9	se.	Boonville Water Dept.
Carthage	Jasper	962	11	54.4	......	85	17	15	7	21	5.55	......	1.37	18-19	0	13	13	12	6	s.	Carthage W. and E. Plant
Clinton	Henry	786	52	52.8[a]	+ 7.8	88[a]	22	12[a]	6	58	5.23	+1.87	1.58	19	0.5	8	14[a]	7[a]	9[a]	s.	U. S. Weather Bureau
Eldon	Miller	934	50	53.5	+ 9.9	86	16	15	7	46	5.30	+2.26	1.01	29	*T.*	9	16	5	10	s.	E. H. Shepherd
Fort Leonard Wood	Pulaski	1,107	4	51.8	......	85	16	19	7†	4	12.22	......	3.83	24-25	0	14	15	3	13	nw	U. S. Army Medical Corps
Harrisonville	Cass	904	67	49.5	+ 8.2	81	16	8	7	70	4.22	+1.42	0.74	15	3.0	11	8	5	18	e.	John H. Patterson
Jefferson City	Cole	557	55	52.0	+ 8.4	88	16	19	7†	63	5.20	+2.14	1.24	29	1.0	13	12	9	10	s.	Mrs. Frank Kliegel
Joplin	Jasper	1,008	23	55.7	+ 7.1	83	27	20	7	40	5.51	+2.31	0.85	18	....	12	15	4	12	s.	Empire Dist. Electric Co.
Lakeside	Miller	595	14	50.8	+ 6.2	85	16	17	7	14	5.76	+3.01	1.17	29	*0.5*	14	12	8	11	sw.	W. S. Frame
Lamar	Barton	980	57	51.6	+ 5.6	84	16	17	17†	64	5.70	+2.51	1.40	19-20	T.	11	18	1	12	sw.	Mrs. Marie Mann
Lebanon	Laclede	1,265	57	54.5	+ 9.5	85	16	17	7	58	8.36	+4.88	1.91	18-19	0	10	11	9	11	sw.	Mrs. Rosa E. Montelius
Lexington	Lafayette	688	60	51.2	+ 7.8	82	16†	11	7	61	5.94	+3.16	2.10	24-25	4 5	11	13	8	10	......	Tilton Davis
Lockwood	Dade	1,078	39	55.2	+ 7.9	84	16	15	7	49	7.31	+3.75	2.26	24-25	*T.*	10	15	10	6	sw.	Hubert A. Nieman
Marshall	Saline	779	58	53.3[a]	+10.3	83[a]	16	9[a]	7	55	§6.66	+3.74	2.20	24-25	2.5	10	13[a]	12[a]	5[a]	s.	Mrs. Merrel Peace
Mountain Grove	Wright	1,463	44	53.8	+ 8.4	81	16	19	7	48	8.41	+4.54	1.77	5-6	0	16	11	7	13	se.	Mo. Fruit Exp. Station
Mount Vernon	Lawrence	1,174	33	....	......	..	..	..	..	45	§6.30	+2.41	1.81	19-20	0	13	..	..	..	......	James C. Williamson
Neosho	Newton	1,011	58	54.7	+ 6.6	83	27†	14	7	62	7.34	+3.79	1.48	18-19	0.5	12	9	15	7	se.	U. S. Fisheries Station
Nevada	Vernon	862	52	54.3	+ 9.4	85	16	15	7	53	5.52	+2.65	2.80	18-19	1.7	10	13	8	10	sw.	Henry Kraft
Ozark Beach	Taney	700	5	53.4	......	86	16†	20	7†	20	7.77	+4.68	2.38	18-19	0	14	3	8	20	se.	Empire District Elec. Co.
Sedalia	Pettis	910	32	53.6	+10.8	83	16†	10	7	34	5.86	+3.03	1.25	2	3.8	9	14	5	12	sw.	Dr. J. E. Cannaday
Seligman	Barry	1,542	44	54.4[d]	+ 7.8	83[d]	16†	16[d]	7	42	8.07	+4.47	2.33	18-19	0	11	15[d]	6[d]	6[d]	s.	Floyd E. Fawver
Seymour..3½ miles NE	Webster	1,642	39	50.2	+ 4.8	80	16	17	7†	39	6.48	+2.82	2.20	18-19	0	11	12	6	13	s.	A. L. Hailey
Springfield.. ½ mile E	Greene	1,301	57	52.0	+ 8.4	84	16	17	7	57	8.86	+5.47	2.32	1-2	T.	15	11	6	14	se.	U. S. Weather Bureau
Sweet Springs	Saline	700	4	52.6	......	83	16†	7	7	4	5.50	......	1.41	24-25	2.0	12	15	11	5	s.	H F. Nelson
Warrensburg	Johnson	878	58	53.0[a]	+ 9.0	83[a]	27†	12[a]	7	65	5.75	+2.66	1.62	18-19	1.5	10	19	6	6	s.	Central Teachers College
Warsaw	Benton	687	44	51.4	+ 7.4	86	16	14	7	50	6.31	+2.76	1.80	24-25	*1.0*	12	14	7	10	w.	Dora B. Johnson
Wasola	Ozark	1,294	4	55.5	......	85	16	19	7	5	8.02	......	2.02	18-19	0	11	16	8	7	s.	A. W. Pinckney
Division means	**and extremes**	.....	..	**53.0**	**+ 7.8**	**88**	**16†**	**7**	**7**	..	**6.98**	**+3.83**	**3.83**	**24-25**	**0.9**	**12**	**13**	**7**	**11**	**s.**	
Southeastern Division																					
Advance.... ¼ mile W	Stoddard	354	8	54.4	......	81	16	27	9	8	12.70	.....	....	..	0	15	9	6	16	s.	U. S. Weather Bureau
Arcadia	Iron	926	64	53.6	+ 9.0	84	16	22	7†	67	10.16	+6.11	3.12	30	0	15	11	7	13	e.	Arcadia College
Birch Tree... ½ mile E	Shannon	1,000	50	54.2[c]	+ 6.9	82[b]	27†	22[c]	7	51	10.44	+6.46	2.23	30-31	0	16	14[b]	3[b]	12[b]	se.	R. C. Moger
Black.......9 miles NW	Iron	1,000	52	51.6	+ 6.6	84	16	17	9	52	10.10	+6.21	2.25	30	0	11	19	2	10	w.	Claude Volner
Campbell	Dunklin	314	19	57.2	+ 9.2	82	16	29	8	19	9.10	+3.18	1.84	25	0	15	11	13	7	s.	Mrs. Ruth Christian
Caruthersville	Pemiscot	265	49	56.6	+ 5.2	82	16	30	1	53	9.33	+4.87	2.63	25	0	14	8	9	14	e.	Victor T. Malloure
Crystal City	Jefferson	420	11	54.8	+ 9.6	87	16	22	9	11	10.89	+8.21	2.22	5-6	0	14	13	7	11	se.	Richard K. Ragland
Doniphan	Ripley	344	41	56.8	+ 7.8	83	27	24	9	41	11.66	+7.27	2.60	5-6	0	13	16	2	13	s.	Boyce Lackey
Farmington	St. Francois	896	34	54.4	+ 7.9	81	16†	22	7	48	10.39	+6.47	2.12	30-31	0	16	11	6	14	s.	F. M. Karsch
Greenville	Wayne	460	36	55.8	+ 8.1	82	16†	22	9	38	11.71	+7.45	2.79	29-30	0	15	11	8	12	s.	Beuford Shoemake
Jackson	Cape Girardeau	428	54	55.4	+ 8.2	82	16	26	1	55	15 91	+11.74	3.25	6	0	16	11	6	14	s.	John G. Putz
Koshkonong	Oregon	958	44	56.2	+ 6.8	81	16†	20	7	45	12.68	+8.58	2.71	18-19	0	14	13	5	13	se.	Mrs. Genevieve T. Smith
Licking...... 4 miles N	Texas	1,170	8	54.2	......	89	29	20	7	8	8.65	+5.52	1.75	30	0	11	17	2	12	s.	U. S. Forestry Service
Malden....4 miles NNW	Dunklin	292	2	56.8	......	84	16	30	1†	2	9.12	......	1.78	25	0	14	9	2	20	s.	U. S. Weather Bureau

Continued on next page

Climatological Data for March 1945—Continued from preceding page

Stations	Counties	Elevation, feet	Temperature, in degrees, Fahr.							Precipitation, in inches						Number of days				Prevailing direction of wind	Observers
			Length of record, years	Mean	Departure from the normal	Highest	Date	Lowest	Date	Length of record, years	Total	Departure from the normal	Greatest in 24 hours [4]	Date	Total snowfall, unmelted	With precip., .01 inch or more	Clear	Partly cloudy	Cloudy		
Southeastern Division—	*Concluded*																				
Marble Hill	Bollinger	532	50	55.6	+ 8.0	82	17	23	9	52	14.71	+10.43	2.23	29-30	0	15	15	8	8	s.	R. A. DeWitt
Poplar Bluff	Butler	339	40	55.6	+ 7.0	84	16	26	1†	41	10.84	+6.48	2.07	25	0	12	19	4	8	s.	Joe Roehm
Rolla	Phelps	1,202	45	52.7	+ 7.2	85	16	20	7	61	9.68	+6.05	1.85	5-6	T.	13	9	11	11	sw.	Rolla School of Mines
St. Louis:																					
City Office		465	108	54.3	+10.2	85	16	25	7	108	8.27	+4.89	1.83	29-30	T.	14	10	9	12	s.	**Section Center**
St. Louis Airport	St. Louis	556	8	53.4	+10.4	86	16	25	7	14	7.63	+4.75	1.53	5-6	T.	15	6	15	10	s.	U. S. Weather Bureau
St. Louis University	St. Louis City	578	33	54.4	+10.2	85	16	26	7	33	9.28	+5.94	2.13	5.6	T.	14	17	2	12	s.	St. Louis University
Salem	Dent	1,206	41	53.8	+ 7.4	85	16	21	7	44	10.30	+6.43	2.12	5-6	0	12	13	7	11	s.	E. E. Martin
Sikeston	Scott	318	38	56.2[c]	+ 7.6	84	16	28[f]	1	48	9.52	+5.06	2.39	25	0	16	11	12	8	sw.	Mrs. Lucy W. Humphreys
Union 1½ mi. SE	Franklin	520	7	54.4	......	88	16	22	7	28	8.76	+5.46	1.64	25	*T.*	13	17	0	14	s.	Cornelius Sieges
Vichy 2 mi. NW	Maries	1,125	9	52.6	......	86	16	20	7	10	7.41	......	1.60	29-30	T.	12	11	8	12	s.	Civil Aeronautics Adm.
Wappapello Dam	Butler	475	6	54.4	......	82	16	27	8	6	12.69	......	2.56	18-19	0	15	11	9	11	sw.	U. S. Engineer Office
Weingarten	St. Genevieve	833	4	53.8	......	81	28	23	7	5	9.02	......	2.55	30	0	9	13	7	11	s.	William J. Miller
West Plains	Howell	1,005	8	53.4	......	83	28	21	7	8	11.42	......	3.28	29-30	0	13	9	6	16	s.	U. S. Weather Bureau
Willow Springs 500 ft E	Howell	1,238	4	54.0	......	84	16	20	7	38	7.66	+3.42	1.91	29-30	0	11	13	8	10	s.	Allen Frazee
Cairo, Ill.	Alexander, Ill.	314	73	57.4	+ 9.7	81	16	32	1	74	9.22	+5.47	1.80	30	0	14	9	7	15	sw.	U. S. Weather Bureau
Division means	**and extremes**	.....	..	**54.8**	**+ 8.2**	**89**	**29**	**17**	**9**	..	**10.25**	**+6.19**	**3.28**	**29-30**	**T.**	**14**	**12**	**7**	**12**	**s.**	
State means	**and extremes**	.....	..	**52.6**	**+ 8.6**	**89**	**16†**	**2**	**7**	..	**7.44**	**+4.19**	**3.83**	**24-25**	**1.0**	**12**	**13**	**7**	**11**	**s.**	

The departures from normal temperature are computed from the averages of the entire period for stations having 10 or more years of record. Departures of precipitation for stations with 15 years or more of record are computed from a normal or "standard mean", adjusted to a uniform 35-year period; for stations of 10 to 14 years the means for the period of record are used. The normal may be found by adding the departures when minus (−) or subtracting when plus (+). Figures and letters following stations indicate distance in miles and direction of station from the city Post Office, unless otherwise indicated. T. Trace or 0.005 inch or less. [a], [b], [c], etc., number of days missing; for example, [b], indicates two days missing. Italics data interpolated. § Partly interpolated. † And other dates. ‡ Received too late to be included in means and summaries. [4] Best available used for stations not equipped with recorders. Post office address of: Altona is Adrian; Crane Mountain is Arcadia; East End is Goodland; Eastwood Lookout is Van Buren; Ellsinore Lookout is Mill Spring; Farber is Laddonia; Hailey is Cato; High Lookout is Birch Tree; Macedonia Lookout is Doniphan; Perry is Center; Pilot Knob is Ironton; Pineview Lookout is Duke; Sugar Camp Lookout is Cassville; Wilderness Lookout is Lampe.

(Continued from page 17)

TEMPERATURE

The monthly mean for the State, 96 stations reporting, was 52.6°, or 8.6° warmer than the 58-year March average. The highest monthly mean was 57.2° at Campbell, and the lowest was 46.5° at Tarkio. The highest reported was 89° at St. Charles, on the 16th, and near Licking, on the 29th, and the lowest was 2° at Grant City and Lawson, on the 7th.

PRECIPITATION

The average for the State, 211 stations reporting, was 7.44 inches, or 4.19 inches more than the 58-year March average. The greatest monthly amount was 15.91 inches at Jackson, and the least was 2.54 inches at Grant City. The greatest amount reported in 24 hours was 3.83 inches, at Fort Leonard Wood, on the 24-25th. The average number of days with 0.01 inch, or more, was 12.

Snowfall averaged 1.0 inch, which is 2.0 inches less than the 55-year average for March. The greatest monthly snowfall was 9.0 inches, at Paris.

MISCELLANEOUS PHENOMENA

Earthquake.—On 27th; of slight intensity; felt in Franklin, St. Louis, and Warren counties.

Floods.—In Black River; continued from February to March 2d; March 6th to 9th; 20th to 22d; 31st and continued into April. In Bourbeuse River, on 5th. In Current River; continued from February to early in March; March 7th to 8th; 31st and continued into April. In Gasconade River; on 5th; 7th to 9th. In Grand River; 16th to 18th; on 20th; 25th to 30th. In Meramec River; 3d to 10th; on 22d; 26th to 28th; 31st and continued into April. In Mississippi River; at Cairo, Ill., and below, continued from February into April; above Cairo, 19th and continued into April. In Missouri River; from Waverly to mouth 21st and continued into April. In Osage River; 21st to 22d; 25th to 27th.

Fogs.—Heavy, 1st, 2d, 5th, 6th, 7th, 8th, 10th, 12th, 13th, 15th, 16th, 30th, 31st.

Glaze.—5th, 6th.

Hail.—Light, on 5th at New Florence; 6th at Joplin; 11th at Amity and Maryville; 14th at Maryville; 16th at St. Joseph; 18th at Warrensburg and Koshkonong; 19th at Warrenburg; 24th at Amity, Columbia and vicinity, Kansas City, Lawson, Appleton City, and Lockwood; 29th at Lockwood and Farmington. Moderate, on 19th at Lockwood.

Sleet.—5th, 6th, 7th, 20th.

Windstorm.—On the 25th at about 2:00 a. m. C. W. T., a damaging windstorm struck the vicinity west and northwest of Warrenton, Warren County, resulting in damage to dwellings, outbuildings, and trees, of undetermined amount. The storm came from the southwest, with path one and one-half miles wide and about twenty-five miles in length. High winds also occurred on several days during March, but no other damage was reported.

ERRATA

December 1944, page 74: Maximum temperature and date at Warrenton should be 55 on 20th. Page 75: Monthly wind movement at Columbia evaporation station should be 1932.

February 1945, page 11: Greatest 24-hour precipitation at West Plains should be 4.51 on 25–26th.

Daily Precipitation for March 1945

Stations	Drainage basins	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Total
Northern Division																																	
Albany	Grand		.18				.05					.45			.01	.70				.25	.05				.90	.03							2.62
Amity[2]	do		.04	.09		T.	.10	.20				.67	.67			.57	.13			.05	.47					.76	T.			.35			4.00
Auxvasse	Missouri		.68			*.12*	.31					.04	.01			.02				.32	1.36					1.94				1.00	.05		§5.85
Bethany	Grand	T.	.09									.39				.91					.45				*	.68				.05			2.57
Bowling Green[2]	Mississippi		.02	.59			.06	.19					.12				T.				.78	1.00				1.06	1.07			.82	.02	.16	5.89
Brookfield[2]	Grand		.12	.06			.10	.36					.40			1.12	.10			.22	.57					1.34				.34			4.73
Browning 3 mi. NE	do	T.	.14			.05	.26	T.				.53				.66			T.	.46	.03				.54	.75			T.	.46			3.88
Brunswick[2]	do		.03	.72			.11	.32					.38			.20	.05			.02	1.05	.42				1.32	.12			.40			5.14
Canton, Lock No. 20[2]	Mississippi		.01	.43			.06	.25				T.	.28				T.			.04	.69	1.27				1.20	.65			.40	.01		5.29
Centralia[2]	do		.04	.81			.13	.17					.11			T.					.79	1.16				.93	.16			.96			5.26
Chillicothe[2] (A)	Grand		.06		.05		T.	.21					.27			.69	.03			T.	.21					1.18				.57			3.27
Chillicothe[2] (B)	do		.02	.14			.08	.34					.15			.50	.20			T.	.42					1.20	T.			.51			3.56
Clifton Hill	Chariton																																....
Columbia[1, 5]	Missouri	T.	.90		T.	.11	.31					.53	T			.03				.66	1.26				.84	.47				.93	T.		6.04
Columbia 9 mi. WNW	do		.96			.02	.24					.29	.10			.10				.69	1.32					1.35				1.06			6.13
Conception	do	T.	.14			T.	*.05*					.60			T.	1.22		.04		.09					.78								§2.92
Edgerton	do		.14			.10	.21					.64				.55				.97					.67					.57			3.85
Edina[2]	Mississippi		T.	.35			.08	.24					.33				.06			T.	.50	.28				1.52	.06			.32			3.74
Elsberry	do		1.30			*	1.50												.46	.22	.55					1.72	.81			.68	*	.71	7.95
Elsberry S.C.S.[2]	do		.08	1.01			.97	.44					.03			.10				*	*	.97				.85	1.65			.64	.17	.70	7.61
Farber[2] 1 mile N	do		.06	1.10			*	.30					.07				T.				.60	.95				*	1.90			.65			5.63
Fayette	Missouri	T.	1.23			.07	.21					.27				.07			T.	1.00	1.27					.93				.41			5.46
Fulton[2]	do	T.	.22	.55			.56	.13					.13			T.				T.	.76	.70				1.45	.16			1.07	.01	.23	5.97
Gallatin[2]	Grand		.05	.03			.16	T.				T.	.38			.71	T.			.64	.54					1.10	T.			.64			4.25
Grant City	do		.12			T.	T.					.23			*T.*	.78	T.	.11		.11	.07				1.10	.02							2.54
Hannibal[1] (A)	Mississippi		.76			.14	.30					.35				.03				.45	1.75				T.	1.71				.70			6.19
Hannibal[2] (B)	do		T.	.90			.28	.17					.52								.98	1.52				.98	1.13			.57	.10		7.15
Hermann[2]	Missouri		.12	.90			.82	.33					.03			.02	.02			.39	.60	.70				1.05	.32			.52	.06	.84	6.72
Kahoka[2]	Mississippi		.06	.15	*T.*		*.20*	*.05*				.15	.35							T	.75	.50				.40	1.16			*	.28		§4.05
Kansas City Airport[1, 5]	Missouri	.01	.15		T.	.06	.28					.72			.13	.51				.85	.09				.72	T.			.44	.36			4.32
Kansas City University	do	.02	.04			.06	.60					.72	.14	T	T	.63				.75	.13				1.00	T.				1.03			5.12
Kidder[2]	Grand		.03	.07		.05	*	*.25*				.10	.75		.65	.11				.43	.54					.74				.64			§4.36
King City	Missouri		.31	.01			*T.*					.96			.64					1.30					*	.86							4.08
Kirksville	Mississippi		.29	.01		.07	.17	T.				.60				.40			.02	.14	.25				T.	1.53				.53			4.01
Knoxville[3]	Missouri	T.	.26			.07	.07					1.17			.06	.37			T.	.43					.92	T.			.42	.34			4.11
LaBelle[2]	Mississippi			.46			.15	.25					.38				.02				.78	.35				*	1.45			.38			4.22
Lawson	Missouri	T.	.21			.06	.21					.64				.70				.46					1.12				T.	.83			4.23
Linneus[2]	Grand		*	.25			*	.50					.15			*	.70				.35					2.00				.43			4.38
Louisiana[2] (A)	Mississippi		.40	.90			.30	.10				.20				.10					.70	1.10					1.90			.80		.20	6.70
Louisiana[2] (B)	do		.03	.96			.10	.35					.12				T.			.01	.50	1.14				.62	1.28			.81	.05	.18	6.15
Lucerne[2]	Grand		T.	.17			T.	.10				T.	.30			T.	.80			.34	.42					1.33				.48			3.94
Macon[2]	Chariton		.02	.55			.12	.32					.41				.01				.57	.34				1.25	.01			.35			3.95
Madison[2]	Mississippi		.35	.34			.15	.18			.30					.04				.90	.80					1.60	.10			.46			5.22
Martinsburg[2]	Missouri		.03	.67			.35	.08					.09			T.	T				1.03	.92				1.71	.28			.72	.12	.12	6.12
Maryville	do		.10	.02		.08	.04					.76			1.26	.73	.02			.12	.02				.79	.02							3.96
Memphis[2]	Mississippi		T.	.31			.18	*.12*					.42				.08				.32	T.				1.18	.07			.45			§3.13
Mexico[2]	do		.35	1.03			.33	.16					.15			.03					1.05	.70				1.58	.27			.95			6.60
Milan[2]	Grand		T.	.22				.17					.62				1.22			.32	.12					1.20				.54			4.41
Moberly[2] 3½ mi. NE	Mississippi		.14	.70			.02	.37					.46			.17				.22	1.04	1.07			*	1.46				.39			6.04
Monroe City	do		.84			.06	.17					.39				.04				.59	1.68	.42				1.82				.51			6.52
New Florence[3, 5] 1 mi SE	Missouri	.02	.75		T.	1.38	.31					T.	T.			.02			.03	.36	.80				T.	1.66				.99	.41		6.73
Oregon	do		T.	.03			.18					.42			.20	.70				.24					1.26								3.03
Palmyra	Mississippi		.72			.10	.34					.40	.03			T.				.50	3.25				.95	.85				.50			7.64
Paris[2]	do		T.	.66			.08	.20					.29								1.18	1.39				1.48	.21			.66	.01		6.16
Perry 1 mile E	do		.97				.32					.18								.43	1.70	.10				1.75	.05			1.05			6.55
Philadelphia[2]	do																																....
St. Charles[2] (A)	Missouri		.25	.91		.02	.90	.25					T.			.06				.60	.32	.13				.71	.63			.46	.35	1.10	6.69
St. Charles[2] (B)	do		.18	1.05		T	.95	.43					T.			T	T.			.58	.29	.20				.31	.92			.40	.35	1.17	6.83
St. Joseph[1, 5]	do	.01	.14			.03	.19					1.44			.02	.56	.04		.07	.52					.82					T.			3.84
Saverton, Lock No. 22[2]	Mississippi		.02	.86			.21	.19					.15			T.	T.	T.			1.07	1.73				1.20	.85			.72	T.		7.03
Shelbina	do		.95	*T.*		.09	.61					.50				.01				.38	1.10				*T.*	2.00				.43			6.07
Shelbyville[2]	do			.85			.15	.25					.33								1.12					1.75	.25			.30			5.00
Steffenville	do		.57			.07	.14					.32				T.		.01		.40	.94					1.48				.34	T.		4.27
Tarkio[3]	Missouri		.14		.02	.07	T.				T.	.31			1.52	.38				.16					.96								3.56
Trenton[2]	Grand		.04	.10		T.	T.	.21					.63			.73	.10			.41	.63					.90	.01			.60			4.36
Troy[2]	Mississippi		.10	.85		T.	1.05	.25					T.				.10			.55	.42	.68				1.25	1.00			.58	.21	.72	7.76
Unionville[2]	Chariton			.16				.17					.28			*	.75			.68	.28					.92	.05			.40			3.69
Vandalia	Mississippi		*	1.25		.01	*.32*						.11			.17				.28	*	1.40				*	1.83			.76	.03	.01	§6.17
Warrenton	do		1.01			.29	.66					T	T.			.07			.74	.33	.39	.14			T	1.59	.11			.71	.77	.16	6.97
Keokuk, Iowa[1]	do	.01	.40			.12	.23	.01				.18				.08		.02	T.	.03	1.14			T	.03	1.83			T.	.36			4.44
Southwestern Division																																	
Altona[2]	Osage		.34	.58				.15				T.	.43			.43				.55	.65					.54				.41			4.08
Anderson[2] 1½ mi. SW	Neosho		*	.80		.50	1.13									1.26				2.38	.18					1.99	.02			.18	.24	.11	8.79
Appleton City	Osage		.74				.20									.42			.11	1.35	.75				*	.80				.40	.03		4.80
Ava Ranger Station[2]	White		.20	.45		.10	1.55						.05							2.05	.35	T.								.75	.75	.45	6.70
Bakersfield[2]	do																																....
Bolivar	Osage	.01	.65		.03	.05	.77					.05	T.			.27			.05	1.28	.20					1.36				.77	1.17		6.66
Boonville[2] (A)	Missouri		.40	.72			.80	.12					.58			.21				.38	1.04	.70				.96	.04			.60			6.55
Boonville[2] (B)	do		.06	1.19			.02	.18					.54			.18				.01	1.00	.87				.91	.03			.72			5.71
Bradleyville[2]	White		T.	.70			.70	.70					T.							2.20	.65	T.				1.30				.70	.50	.76	8.21
Buffalo[2]	Osage		.24	.31		.03	1.98						.06			.04				1.08	.60	.32				.30				.37	.18	.80	6.31
Butler[2]	do		.34	.66		.03	.10	T.					.10			.49				.72	.69					.16				.45			3.74
Caplinger Mills[2]	do		.11	.27		.03	.62	.07				.07			.41					.83	.70	.20				.90				.77	1.08	.12	6.18
Carthage	Neosho		.73		.02	.14	.55						.05			.63			.03	1.37	.16				.70	.32				.32	.53		5.55
Cassville[2]	White		.56	1.07		.02	1.89						.38		*	.43				2.71	.54	.01				.45				.38		.48	8.92
Clinton[3]	Osage		.81				T.					T.				.31			.07	1.58	.46				1.40	.02				.58	T.		5.23
Concordia	Missouri		*	.77		.05	.21					*	.94			.46				*	1.64					1.08				*.39*			§5.54
Crocker	Osage		1.78			.15	1.25									T.			.48	1.50	.31					1.48	.03			.28	1.52		8.78
Eldon	Missouri		.74			.50	.26						.01						T	.63	.55				.88				1.01	.72			5.30
Eldorado Springs	Osage		.35	T.	T.	.30	.26						.05			.40			.06	1.63	.60				.35	1.40				.53	.49		6.42
Elijah[2]	White		.04	.20		.18	1.12						.10			.30		.80		1.85	.70					.97	.11			1.43	1.75	1.12	10.67
Fort Leonard Wood[2]	Gasconade		.60	.60		.15	1.60	.60								.06				1.50	.60	.30				3.83	.12			.90	.65	.71	12.22
Galena[2]	White		.36	.66			2.30						.11			.23				2.37	.91	.04				.88	.04			.06	.75	.54	9.25
Granby[2]	do		.25	.30			1.30									1.10				1.45	.50	.20				1.95	1.03			*	.26		8.34
Hailey	do	.36	2.51			.76	1.26					.07	1.03			.61			1.48	2.31	.29					.58		.75			1.13		13.14
Harrisonville[2]	Osage		.38	.10		.02	*	.33					.71			.74				.71	.27					.65				.31			4.22
Jefferson City[2] (A)	Missouri		.14	.46		T	.40	.35					.19			.02					.80	.10				.87	.12			.81	.43	.51	5.20
Jefferson City[2] (B)	do		.15	.52		.02	.63	.10					.20			T.				T.	.81	.84	T.			.78	.24			.83	.47	.49	6.08

Continued on next page

Daily Precipitation for March 1945—Continued from preceding page

Stations	Drainage-basins	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Total
Southwestern Division—	*Concluded*																																
Joplin[1]	Neosho	.12	.80	....	....	.27	.69	....	....	....	....	.18	....	....	....	.65	....	....	.85	.53	.23	....	....	....	.38	....	....	....	....	.54	.27	....	5.51
Lakeside[2, 5]	Osage	....	.21	.66	....	.03	.60	.10	....	....	....	....	.08	....	....	T.	....	....	....	.36	.51	.52	....	....	....	.54	.05	....	....	1.17	.24	.69	5.76
Lamar[2]	Neosho	T.	.10	.30	....	....	.45	....	....	....	....	....	....	....	....	.40	....	....	....	.50	1.40	....	....	....	....	*	1.25	....	....	.60	.60	.10	5.70
Lebanon	Osage	....	1.35	....	....	.29	.97	....	....	....	....	....	....	....	....	T.	....	....	.90	1.91	.20	....	....	....	....	.80	....	....	....	.59	1.32	.03	8.36
Lexington[2]	Missouri	....	.57	....	....	.03	*	.36	....	....	....	....	.84	....	....	.40	....	....	....	.12	*	.78	....	....	....	2.10	....	....	....	.74	....	....	5.94
Lockwood	Osage	....	.69	....	T.	.06	.47	....	....	....	....	T.	....	....	....	.80	....	....	T.	1.50	.10	....	....	....	1.28	.98	....	....	....	.70	.73	....	7.31
Macomb[2]	White	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Marshall	White	T.	.89	....	....	*	.25	....	....	....	....	*	.48	....	....	.24	....	....	T.	.99	.71	....	....	....	....	2.20	....	....	....	.90	....	....	§6.66
Marshfield[2]	....do	....	.76	....	....	.11	1.85	T.	....	....	....	....	.02	....	....	.03	....	....	....	1.86	.24	.05	....	....	....	.89	.15	....	....	.91	.48	.65	8.00
Mountain Grove[2]	Neosho	....	.12	.30	....	.18	1.77	.03	....	....	....	....	.03	....	....	.20	....	.02	....	1.57	.64	.03	....	....	....	1.56	.09	....	....	.72	.62	.53	8.41
Mount Vernon[2]	....do	....	.40	.30	....	.02	.75	....	....	....	....	....	.01	....	....	.44	....	....	....	.41	1.81	.18	....	....	....	*	.84	....	....	.94	.20	....	§6.30
Neosho	Osage	T.	.60	....	T.	.70	.75	....	....	....	....	.15	.25	....	....	.25	....	....	.53	1.48	.22	....	....	....	T.	1.25	....	....	....	.55	.61	....	7.34
Nevada	Missouri	T.	.43	....	T.	.06	.17	....	....	....	....	....	....	....	....	.37	....	....	T	2.80	.31	....	....	....	.21	.30	....	....	....	.79	.08	....	5.52
Osceola[2]	Osage	....	.51	.34	....	*	1.05	.36	....	....	....	....	.03	....	....	.31	....	....	....	*	1.46	.31	....	....	....	.64	....	....	....	.77	*	.56	6.34
Ozark	White	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Ozark Beach[2]	....do	....	.10	.32	....	.05	1.42	....	....	....	....	....	.03	....	....	.11	....	....	....	2.38	.34	.07	....	....	....	1.05	.19	....	....	.51	.94	.26	7.77
Pierce City[2]	Neosho	....	.40	.29	....	.03	1.04	....	....	....	....	....	T.	....	....	.93	....	....	....	1.90	.40	T.	....	....	....	1.55	....	....	....	.67	*	.43	7.64
Pineview Lookout	White	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Pleasant Hill[2]	Osage	....	.20	.39	....	.03	.04	.44	....	....	....	....	1.15	....	....	.66	.14	....	....	.68	.33	....	....	....	....	.88	....	....	....	.55	....	....	5.49
Roby	Gasconade	....	1.60	....	....	.48	2.22	....	....	....	....	.05	....	....	....	.16	....	....	.67	1.94	.06	....	....	....	....	1.55	....	....	....	1.00	1.80	T.	11.53
St. Thomas[2]. 2¼mi sw	Osage	....	.19	.82	....	....	.77	.06	....	....	....	....	T.	....	....	.06	....	....	....	.26	.62	.36	....	....	....	.82	....	....	....	1.20	.35	.77	6.28
Saunders Lookout[2]	White	....	.23	.51	....	T	2.35	....	....	....	....	....	....	....	....	.10	....	....	....	1.74	.44	....	....	....	....	.85	.10	....	....	.25	.48	.42	7.47
Sedalia	Missouri	T.	1.25	....	....	T.	.20	....	....	....	....	*	.46	....	....	.41	....	....	....	.97	.70	....	....	....	....	1.20	....	....	....	.67	....	....	5.86
Seligman	Neosho	.05	1.12	....	....	1.26	.89	....	....	....	....	....	.23	....	....	.42	....	....	.55	2.33	.06	....	....	....	....	....	....	....	....	.57	.59	....	8.07
Seymour[2]....3½ mi. NE	White	....	.45	.69	....	.03	....	....	....	....	....	....	.15	....	....	.05	....	....	....	1.70	.50	....	....	....	....	.99	....	....	....	.80	.51	.61	6.48
Shell Knob[2]...3 mi. SE	....do	....	.19	.40	....	.05	1.95	....	....	....	....	....	.05	....	....	.34	....	....	....	2.21	T.	....	....	....	....	.81	.05	....	....	.58	.82	.08	7.53
Siloam Sprgs Lookout[2]	....do	....	....	.40	....	....	1.20	.10	....	....	....	....	....	....	....	....	....	....	....	1.75	.50	....	....	....	....	1.50	....	....	....	1.26	1.35	....	8.06
Springfield[1, 5]...½ mi. E	....do	.61	1.71	....	.06	.92	.61	....	....	....	....	.03	T.	....	....	.13	....	....	1.89	.45	.16	....	....	....	.41	.17	....	....	.05	.89	.77	....	8.86
Stover[2]	Missouri	....	.22	.55	....	T.	.39	....	....	....	....	....	.17	....	....	.19	....	....	....	.50	.75	....	....	....	....	*	1.38	....	....	1.23	.11	....	5.49
Swan Tower Lookout[2]	White	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Sweet Springs	Missouri	....	.83	....	....	.04	.37	....	....	....	....	.42	.46	....	....	.32	....	....	.02	.74	.57	....	....	....	.02	1.39	....	....	....	.32	....	....	5.50
Tecumseh[2]. ..¼ mi. W	White	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Topaz[2]	....do	....	....	.35	....	.29	1.40	....	....	....	....	....	.08	....	....	.26	....	....	....	1.78	.45	.56	....	....	....	.95	.06	....	....	1.13	1.60	.18	9.09
Vanzant[2]....3¾ mi. SE	....do	....	....	.36	....	.22	1.43	.02	....	....	....	.09	....	....	....	.26	....	....	....	*	2.00	....	....	....	....	1.15	....	....	....	1.03	.60	.10	7.26
Warrensburg	Missouri	T.	.63	....	....	.04	.23	....	....	....	....	.38	.48	....	....	.40	....	....	....	1.62	.74	....	....	....	T.	.91	....	....	....	.32	....	....	5.75
Warsaw[2].........(A)	Osage	....	.30	.51	....	....	.34	.07	....	....	....	....	.17	....	....	.17	....	....	....	.43	.97	.30	....	....	....	1.80	....	....	....	.96	.29	T.	6.31
Warsaw[2].........(B)	....do	....	*	.69	....	.14	....	....	....	....	....	....	.46	....	....	.18	....	....	....	*	1.30	.43	....	....	....	1.25	.15	....	....	.96	.29	T.	§5.85
Wasola[2]	White	....	....	.16	....	....	1.35	....	....	....	....	....	.10	....	....	.22	....	....	....	2.02	.49	....	....	....	....	1.21	.10	....	....	.99	.87	.51	8.02
Waverly[2]	Missouri	....	.20	.44	....	....	.28	.07	....	....	....	....	.43	....	....	.30	.11	....	....	.25	.78	.12	....	....	....	1.36	....	....	....	.18	....	....	4.52
Wilderness Lookout[2]	White	....	.15	.49	....	.05	1.09	....	....	....	....	....	.13	....	....	.17	....	....	....	2.52	.51	.02	....	....	....	.36	.07	....	....	.42	1.01	.26	7.25
Southeastern Division																																	
Advance[3].....¼ mile W	St. Francis	....	1.16	....	.08	.57	2.08	....	....	....	....	.04	.03	....	....	.52	.85	.10	1.42	1.84	.06	T.	....	....	....	1.93	....	....	....	.32	1.70	....	12.70
Alton(1)....10 miles SE	Black	....	.98	....	....	.40	1.10	....	....	....	....	....	.11	....	....	.57	....	.35	.61	2.27	.06	....	....	....	....	1.47	....	....	....	.55	2.46	.07	11.00
Alton(2)[2] ...7 miles NE	....do	....	*	.70	....	.46	1.74	....	....	....	....	....	.18	....	....	.31	.48	....	....	2.23	.70	....	....	....	....	.40	.30	....	....	.60	*	2.90	11.00
Annapolis[2].....7 mi. W	....do	....	.02	.27	....	.52	1.89	.08	....	....	....	....	.12	....	....	.36	.01	.71	....	.96	.99	.01	....	....	....	.25	1.01	....	....	.29	.85	1.88	10.22
Arcadia[2]	St. Francis	....	.11	.39	*	.45	1.21	.21	....	....	....	....	....	....	....	.31	....	.54	....	.85	.93	.11	....	....	....	....	1.52	....	....	.41	.90	2.22	10.16
Belleview[2]	Meramec	....	.15	.40	T.	.45	2.36	.30	....	....	....	....	....	....	....	.22	....	.19	....	.76	.85	.01	....	....	T.	.50	1.12	....	....	.92	.90	2.15	11.28
Bernie[2]	St. Francis	....	.60	.76	T	.82	.89	.24	....	....	....	....	.36	....	.51	.26	1.06	T.	....	.38	.90	....	....	....	....	....	1.92	....	....	....	.62	.42	9.74
Birch Tree[2] ...½ mile E	Black	....	.15	.25	....	.32	1.44	.03	....	....	....	....	.20	....	....	.23	....	.62	....	1.09	.81	.02	....	....	....	.58	.17	....	....	1.37	.93	2.23	10.44
Black...... 9 miles NW	....do	....	.72	....	....	1.10	1.00	....	....	....	....	....	....	....	....	.21	....	.38	.19	1.35	.06	....	....	....	....	1.56	....	....	....	1.28	2.25	....	10.10
Bloomfield[2]	St. Francis	....	....	1.08	....	.54	.93	1.02	....	....	....	....	.03	....	....	.12	.52	1.07	....	1.31	.63	....	....	....	....	.04	2.18	....	....	....	.63	.51	10.61
Bunker[2]... 4 miles NW	Black	....	.42	.55	....	.24	1.76	.14	....	....	....	....	.15	....	....	.35	....	.12	....	1.09	.69	.15	....	....	....	.80	.45	....	....	1.35	.57	2.46	11.29
Campbell	St. Francis	....	.18	.92	....	.75	.73	....	....	....	....	....	.21	....	....	.38	....	1.68	.35	.45	.46	....	....	....	....	1.84	.15	....	....	.28	.37	.35	9.10
Cape Girardeau[2]	Mississippi	....	T	.91	....	.51	2.50	.25	....	....	....	....	....	....	....	.12	.45	.81	....	1.88	1.32	.05	....	....	....	.03	2.30	....	....	....	.44	1.18	12.75
Caruthersville[2]	....do	....	.40	.52	....	.69	.05	.17	....	....	....	....	.16	....	....	.15	.25	1.03	....	.32	.84	....	....	....	....	....	2.63	....	....	T.	.30	1.82	9.33
Centerville(1)[2]	Black	....	.14	.35	....	.32	1.74	....	....	....	....	....	.16	....	....	.46	....	.26	....	1.05	.67	.05	....	....	....	.88	.43	....	....	.84	.70	1.63	9.68
Centerville(2)[2]	....do	....	.06	.48	....	.32	1.59	.14	....	....	....	....	.15	....	....	.49	.01	.30	....	1.00	.73	.08	....	....	....	.61	.72	....	....	.80	.49	1.83	9.80
Cook Station[2]	Meramec	....	1.08	1.05	.03	.15	2.09	.01	....	....	....	....	....	....	....	T.	....	....	....	1.52	.36	....	....	....	....	*	.95	....	....	.58	1.12	T.	8.94
Crane Mountain[2]	St. Francis	....	.04	.28	....	.53	1.81	....	....	....	....	....	....	....	....	.30	....	.95	....	.90	.83	.09	....	....	....	.47	.85	....	....	.12	1.06	1.36	9.59
Crystal City	Mississippi	....	2.10	T.	.01	.30	2.22	....	....	....	....	....	....	....	....	.08	....	T.	.26	.44	.07	.80	....	....	....	1.26	.14	....	....	.52	2.03	.66	10.89
Cuba	Meramec	....	1.95	....	....	.97	1.12	....	....	....	....	....	....	....	....	.03	....	....	.39	1.13	.09	.02	....	....	....	1.68	....	....	1.09	....	2.00	.12	10.59
Deering[2]	St. Francis	....	.71	.63	....	.31	.14	.11	....	....	....	....	.11	....	....	.50	....	1.73	T.	.55	.78	....	....	....	....	....	1.68	....	....	....	.31	1.36	8.92
De Soto[2]	Mississippi	....	1.11	.76	....	.20	2.20	.22	....	....	....	....	....	....	....	.14	....	.07	....	.42	.38	.19	....	....	....	.42	.96	....	....	1.03	1.06	1.86	11.02
Dexter[2]	St. Francis	....	T.	1.25	....	.69	.41	1.04	....	....	....	....	.25	....	....	T.	.66	.81	....	1.58	1.20	....	....	....	....	.05	2.00	....	....	....	.61	.47	11.02
Doniphan(1)	Black	....	.53	.55	....	.42	2.60	....	....	....	....	T	....	....	....	.58	....	1.10	.69	1.51	.12	....	....	....	....	1.16	....	....	....	.75	1.51	.14	11.66
Doniphan(2)[2]	....do	....	.07	.90	.05	.40	.77	T.	....	....	....	....	.13	....	....	.44	....	.98	....	2.37	.51	....	....	....	....	.30	.80	....	....	.20	1.77	.15	§9.84
East End[2]	Meramec	....	.45	.54	....	.39	1.70	.12	....	....	....	....	....	....	....	.10	....	....	....	.90	.82	....	....	....	....	.81	1.00	....	....	1.17	1.04	2.18	11.22
Eastwood Lookout[2]	Black	....	....	.71	....	.40	2.17	....	....	....	....	....	.16	....	....	.50	....	.50	....	1.42	1.20	....	....	....	....	1.14	.45	....	....	.39	1.84	1.17	12.05
Ellington[2]	....do	....	....	.33	....	.80	2.82	.20	....	....	....	....	.24	....	....	.37	.05	.70	....	.97	1.16	.03	....	....	....	.35	.90	....	....	.60	.89	1.86	12.27
Ellsinore Lookout[2]	....do	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Farmington[2]	St. Francis	....	.15	.38	....	.43	1.41	.25	....	....	....	....	....	....	....	.08	.08	.58	....	.72	.67	.13	....	....	....	.45	1.29	....	....	.46	1.19	2.12	10.39
Fisk[2]	....do	.19	T.	1.13	....	.42	.85	.79	....	....	....	....	.31	....	....	.48	.17	....	....	1.43	.32	T.	....	....	....	.27	2.71	....	....	....	.33	.17	9.57
Fredericktown[2]	....do	....	.02	.23	....	.64	1.45	.15	....	....	....	....	T.	....	....	.13	.07	.56	....	.97	.85	....	....	....	....	.20	1.66	....	....	.04	.93	2.02	9.92
Gerald[2]	Meramec	....	.45	.94	....	....	1.47	.23	....	....	....	....	....	....	....	.05	....	....	....	.73	.45	.12	....	....	....	.89	.24	....	....	.45	.45	1.05	7.52
Greenville(1)	St. Francis	....	.77	.08	....	1.48	1.82	....	....	....	....	....	.09	....	....	.25	....	.25	.39	1.32	.11	....	....	....	....	1.76	.13	....	....	.24	2.79	.23	11.71
Greenville[2](2)	....do	....	....	.73	....	.48	2.10	.28	....	....	....	....	.09	....	....	.21	.08	.23	....	1.97	.92	....	....	....	....	.11	1.74	....	....	.05	1.78	1.73	12.50
High Lookout[2]	Black	....	....	.33	....	.37	1.62	....	....	....	....	....	.21	....	....	.25	....	1.15	....	1.28	.71	T	....	....	....	.40	.21	....	....	1.26	1.33	1.74	10.86
Jackson	Mississippi	....	.48	.39	....	1.47	3.25	....	....	....	....	....	.03	....	....	.65	....	.95	.37	1.92	.36	.05	....	....	....	2.75	.30	....	....	.04	2.35	.55	15.91
Jefferson Barracks[2]	Mississippi	....	*	1.40	....	T.	1.57	....	....	....	....	....	T.	....	....	.07	....	.06	....	.27	*	.42	....	....	....	*	1.82	....	....	*	2.80	....	8.41
Jerome[2]	Gasconade	....	1.00	.65	....	.10	1.40	....	....	....	....	....	....	....	....	.10	....	....	....	1.40	.40	....	....	....	....	1.50	.10	....	....	.40	.84	.64	8.53
Koshkonong[2]	Black	....	.08	.51	....	.95	1.45	....	....	....	....	....	.19	....	....	.32	....	.18	....	2.71	.95	....	....	....	....	.42	.10	....	....	1.30	1.68	1.84	12.68
Leoper[2]	....do	....	.01	.66	....	.42	2.00	.09	....	....	....	....	.20	....	....	.21	.01	.75	....	1.76	.98	....	....	....	....	.03	1.22	....	....	.15	1.04	1.97	11.50
Licking[2]..... 4 miles N	Gasconade	....	*	1.45	....	.94	1.32	....	....	....	....	....	....	....	....	.20	....	....	....	.37	.82	....	....	....	....	1.05	....	....	....	.75	*	1.75	8.65
Macedonia Lookout[2]	Black	....	1.75	....	....	.44	.08	.95	....	....	....	....	.17	....	....	.44	.25	....	....	2.10	.59	....	....	....	....	*	1.50	....	....	....	.51	1.72	10.50
Malden[3]...4 miles NNW	Mississippi	T.	.98	....	.38	.39	.81	....	....	....	....	....	.28	....	....	.46	.86	.31	.32	1.58	.03	T.	....	....	T.	1.78	....	....	....	.20	.74	....	9.12
Marble Hill	....do	....	.34	.37	.84	1.05	.72	....	....	....	....	....	....	....	....	.71	....	.92	.94	2.20	.67	....	....	....	....	2.05	.81	....	....	.34	2.23	.52	14.71
Meramec Park[2]	Meramec	....	.80	.92	....	T.	1.93	.07	....	....	....	....	....	....	....	.08	....	....	....	1.09	.24	.18	....	....	....	1.39	.64	....	....	.09	.15	.92	8.50
Morehouse	Mississippi	....	.23	.69	....	.77	.91	....	....	....	....	....	.02	....	....	.19	....	.43	.20	.78	1.04	....	....	....	....	2.05	.13	....	....	.19	.39	.78	8.80
Moselle[2]	Meramec	....	*	.93	....	.65	1.63	....	....	....	....	....	....	....	....	....	....	....	....	.90	.40	.20	....	....	....	.80	.82	....	....	.85	.55	1.35	9.08
New Madrid[2]	Mississippi	....	T.	1.12	....	1.00	.02	.65	....	....	....	....	.10	....	....	T.	.35	.60	....	.42	.72	....	....	....	....	T.	2.75	....	....	....	.52	1.37	9.62
Oates Tower[2]	Black	....	.40	.37	....	.32	.80	....	....	....	....	....	.18	....	....	.13	....	.22	....	1.13	.61	....	....	....	....	1.31	.61	....	....	.70	.84	1.56	9.18
Owensville[2]	Gasconade	....	*	1.25	....	T.	1.10	.08	....	....	....	....	....	....	....	.05	....	....	....	.86	*	.61	....	....	....	.87	.13	....	....	.70	.72	.76	7.13
Pacific[2]	Meramec	....	*	1.33	....	.02	1.65	.20	T.	....	....	....	....	....	....	.06	....	....	....	.80	.42	.18	....	....	....	1.95	1.19	....	....	1.10	.49	1.14	§10.53
Parma[2]	St. Francis	....	.10	1.18	....	.80	.21	.50	....	....	....	....	.17	....	....	T.	.45	1.52	....	1.02	.59	....	....	....	....	....	2.20	....	....	....	.80	.75	10.29
Perryville	Mississippi	....	....	.32	....	1.12	1.34	....	....	....	....	....	....	....	....	.11	....	.32	.59	1.35	....	....	....	....	....	1.95	....	....	....	.17	2.48	....	9.75
Pilot Knob[2]... 2 mi. NE	St. Francis	....	.25	.44	....	.30	1.60	....	....	....	....	....	.01	....	....	.27	....	.65	....	.75	.45	.20	....	....	....	.61	.71	....	.40	....	1.20	1.75	9.59
Poplar Bluff[2] ....(A)	Black	....	.51	.89	....	.44	1.25	....	....	....	....	....	.36	....	....	....	....	....	1.25	1.72	.34	....	....	....	....	....	2.07	....	....	.07	1.37	.57	10.84
Poplar Bluff[2] ....(B)	....do	....	.37	.85	....	.39	1.25	.02	....	....	....	....	.26	....	....	.44	....	1.29	....	2.72	.32	....	....	....	....	.82	1.20	....	....	.05	1.37	.56	11.91
Puxico[2]	St. Fraucis	....	T	1.09	....	.34	1.69	.20	....	....	....	....	.16	....	....	.21	.29	.93	....	2.48	.57	....	....	....	....	T.	2.61	....	....	T.	1.29	.59	12.45
Qulin[2]	....do	....	.47	.94	....	.88	.92	.07	....	....	....	....	.36	....	....	.97	....	....	....	1.42	2.00	....	....	....	....	.39	2.24	....	....	....	.90	.33	11.89
Reynolds[2]	Black	....	.05	.37	....	.31	1.66	.04	....	....	....	....	.24	....	....	.22	....	.15	....	1.07	.51	....	....	....	....	1.19	.60	....	....	1.06	.56	1.57	9.60
Richwoods[2]	Meramec	....	1.00	.65	....	.07	1.82	.08	....	....	....	....	....	....	....	....	....	....	....	.62	*	.63	....	....	....	*	1.30	....	....	1.45	1.30	1.10	10.02

Continued on next page

Daily Precipitation for March 1945—Continued from preceding page

Stations	Drainage-basins	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Total
Southeastern Division — Concluded																																	
Rolla[2]	Meramec	....	.95	.70	....	.10	1.85	T.	....	....	....	....	T.	....	....	.08	....	....	....	1.55	.55	.15	....	....	....	.95	.10	....	....	.75	1.45	.50	9.68
Round Spring[2]	Black	....	.16	.20	....	.25	1.53	....	....	....	....	....	.17	....	....	.21	....	....	....	1.15	.55	....	....	....	.42	....	.47	....	....	.36	.58	2.14	8.19
St. Louis:																																	
City Office[1, 5]	Mississippi	.22	.85	....	.04	1.09	.67	T.	....	....	....	....	T.	....	....	.07	.06	T.	.51	.29	.17	.01	....	....	T.	1.51	....	....	....	1.04	1.74	....	8.27
Airport[3, 5]	Missouri	.20	1.21	....	.02	.82	.71	T.	....	....	....	.01	T	....	....	.04	.01	T.	.55	.25	.17	.01	....	....	T.	1.40	....	....	....	.86	1.37	....	7.63
St. Louis Univ.[1, 5]	Mississippi	.02	1.10	....	.09	1.31	.82	....	....	....	....	....	T.	....	....	.13	.01	.09	.50	.32	.15	....	....	....	....	2.04	T.	....	....	.83	1.87	T.	9.28
Washington Univ.[2]	....do	....	.47	.85	....	.06	1.88	.14	....	....	....	....	....	....	....	.12	....	.04	....	.44	.42	.05	....	....	....	.89	.75	....	....	1.30	.84	.91	9.16
Salem	Meramec	....	1.29	....	....	.94	2.12	....	....	....	....	....	T.	....	....	.26	....	.13	.29	1.71	.07	....	....	....	....	.97	....	....	....	1.02	1.46	.04	10.30
Sikeston[2]	Mississippi	....	.18	.78	T.	.66	.91	.11	....	....	T.	....	.06	....	....	.30	.14	.51	....	1.08	.88	.03	T.	....	....	.04	2.35	....	....	....	.52	.97	9.52
Steelville[2] ...2½ mi. NE	Meramec	....	.75	.85	T.	.10	2.00	T.	....	....	....	....	.01	....	....	.20	....	....	....	.50	.90	.56	....	....	....	1.96	....	....	....	.76	1.64	.80	11.03
Summersville	Black	T.	.40	....	T.	.78	1.05	....	....	....	....	.07	T.	....	.29	....	....	.09	.21	1.47	.16	....	....	....	....	1.36	....	....	....	.72	1.67	T.	8.27
Union ....1½ mi. SE	Meramec	....	1.50	....	....	.05	1.40	....	....	....	....	....	....	....	....	.10	....	....	.31	.38	.38	.08	....	....	....	1.64	.09	....	....	.58	1.26	.99	8.76
Valley Park[2]	....do	....	.42	.85	....	.05	1.72	.20	....	....	....	....	T.	....	....	T.	T.	T.	....	.53	.36	.10	....	....	....	.50	.96	....	....	.75	.48	1.14	8.06
Van Buren[2]	Black	....	....	.25	....	.55	1.95	....	....	....	....	T.	....	....	.52	....	.65	....	....	1.15	.61	....	....	....	....	.50	.90	....	....	.30	1.10	2.44	10.92
Vichy[3] ..... 2 miles NW	Meramec	.34	1.02	....	.05	.79	.25	T.	....	....	....	T.	T.	....	....	.01	....	....	.95	.44	.18	....	....	T.	T.	1.48	....	....	....	.33	1.57	....	7.41
Wappapello Dam[2]	St. Francis	....	.39	.84	....	.35	2.53	.02	....	....	....	....	.18	....	....	.38	....	.77	....	2.56	.58	T.	....	....	....	.62	1.57	....	....	.07	1.27	.56	12.69
Weingarten	Mississippi	....	.75	....	....	.45	1.70	....	....	....	....	....	....	....	....	....	....	....	.20	.90	.15	....	....	....	....	....	2.10	....	....	.22	2.55	....	9.02
West Plains[3]	Black	.01	.40	....	.15	.64	.83	....	....	....	....	.13	T.	....	....	.35	.57	....	1.35	.86	T.	....	....	....	T.	1.18	....	....	T.	1.84	3.11	....	11.42
Williamsville[2]	....do	....	.07	.94	....	.58	1.85	.11	....	....	....	....	.17	....	....	.30	.02	.23	....	2.03	.55	....	....	....	....	.17	1.16	....	....	.11	1.58	.98	10.85
Willow Springs .500 ft E	White	T.	.42	....	....	.70	1.04	....	....	....	....	.07	.07	....	....	....	....	....	.31	1.53	.10	....	....	....	....	.68	....	....	....	.83	1.91	....	7.66
Winona Ranger Sta.[2]	Black	....	.20	.37	....	.39	1.61	....	....	....	....	....	.07	....	....	.25	....	.82	....	1.05	.75	.03	....	....	....	*	.82	....	....	1.38	1.78	1.43	10.95
Zalma[2]	Mississippi	....	*.50*	.53	....	.64	2.80	.05	....	....	....	....	.11	....	....	.11	....	.82	....	1.80	1.16	....	....	....	....	T.	2.25	....	....	....	1.82	.90	§13.49
Cairo, Ill.[1, 5]	....do	....	1.02	....	.27	.74	.85	....	....	....	....	.02	....	....	....	.51	....	1.06	.58	1.10	.13	.10	....	....	T.	.82	....	....	....	.21	1.81	....	9.22

Except as otherwise indicated, amounts are for 24 hours ending late in afternoon. [1] Midnight to midnight. [2] Measured in the morning; for the preceding 24 hours. [3] Data for 24 hours ending 12:30 A. M. (C. S. T.) of following day. [5] Recording gage. T. Trace or 0.005 inch or less. * Included in next measurement. // Windshield on gage. Italics data interpolated. § Partly interpolated. (A) Record from cooperative station gage. (B) Record from river station gage. ‡ Received too late to be included in means and extremes.

Daily Evaporation (inches), Mean Temperature (F°), and Wind Movement (miles) for March 1945

(See precipitation data in daily precipitation table)

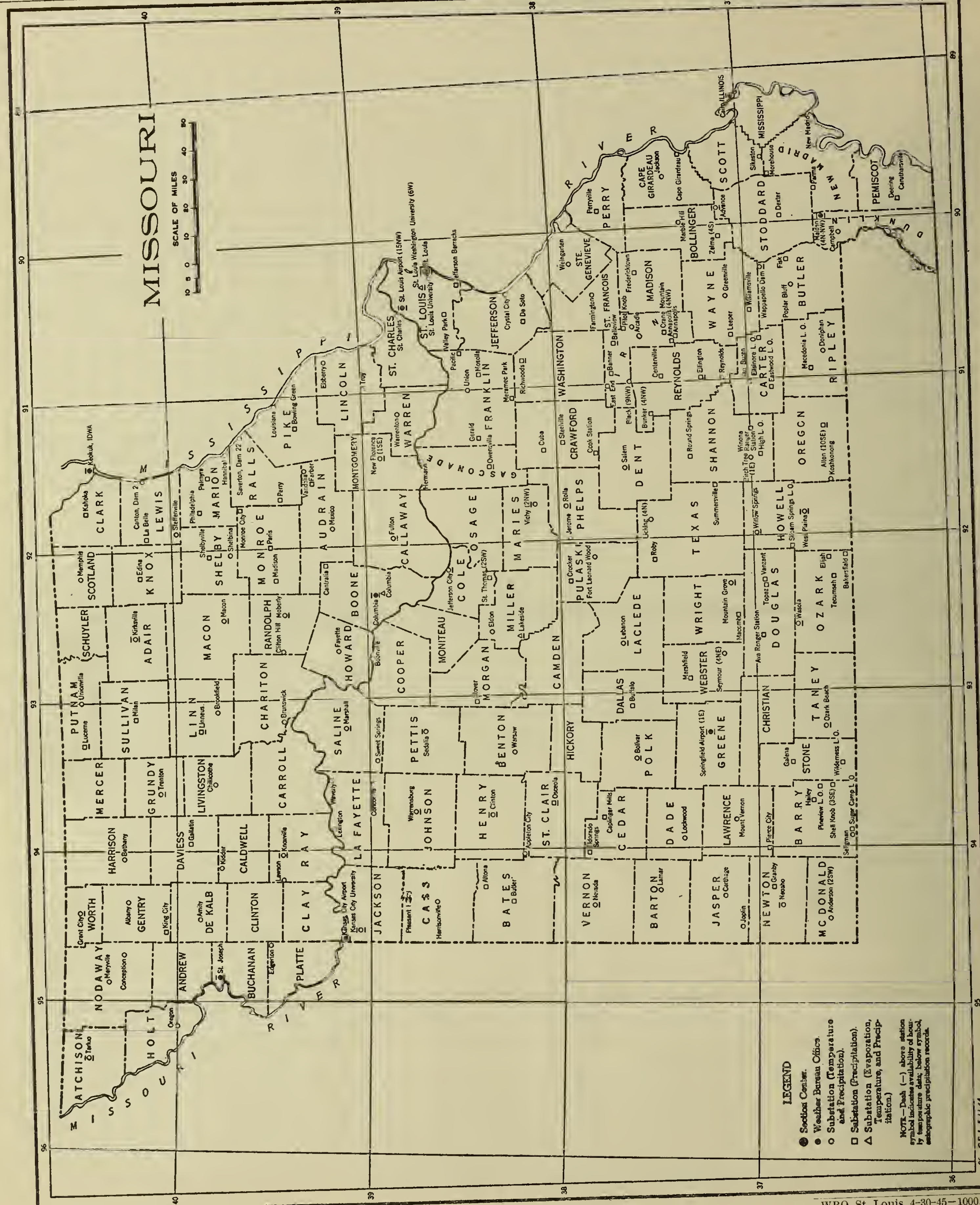
Station	Data	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Monthly
Columbia (Univ. of Mo. Hort. Exp. Sta. 9 mi. WNW.)	Evaporation	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.....
	Mean temperature	40	46	44	47	48	28	23	35	44	46	53	44	48	58	62	66	64	58	58	42	44	52	64	67	62	60	67	67	55	54	56	51.6
	Wind movement	140	51	151	80	119	177	56	25	81	56	59	102	58	112	258	149	228	104	102	227	135	86	151	181	121	200	235	157	148	76	76	3,901
Lakeside (Osage Dam)	Evaporation	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.....
	Mean temperature	38	48	43	50	52	30	28	36	44	48	46	52	49	50	58	64	58	54	54	42	47	52	54	66	56	62	66	69	56	51	55	50.8
	Wind movement	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
St. Louis (Washington University)	Evaporation	....	....	....	.060	.056	.004	*	*	.112	.086	.104	.126	.122	.112	.128	.168	.202	.190	.017	.017	.038	.140	.156	.172	.116	.000	.175	.323	.193	.038	.055	3.222
	Mean temperature	38	48	42	46	50	32	30	36	47	50	52	49	50	60	66	68	66	62	59	48	46	52	62	64	61	62	70	72	58	51	57	53.4
	Wind movement	24	61	61	45	42	77	51	29	24	38	31	68	53	45	75	55	87	34	47	38	129	61	49	76	65	48	51	101	55	58	79	1,757

Observations taken at 8:00 a. m. except at 7:30 a. m. at Lakeside. For Lakeside and St. Louis (Washington University) descriptions see April 1932 and August 1938 reports, respectively. * Included in next measurement.

Daily Temperatures for March 1945

Stations		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Northern Division																																	
Brunswick /	Maximum	52	55	46	61	56	25	34	48	62	63	54	58	69	72	65	81	64	74	58	51	60	75	79	72	64	70	82	69	64	63	74	61.9
	Minimum	26	31	29	28	36	21	10	7	20	30	29	35	32	36	47	48	49	46	47	38	34	33	37	52	59	51	50	54	50	49	45	37.4
Chillicothe /	Maximum	50	52	47	58	46	24	36	49	62	63	54	57	70	67	62	80	75	77	52	54	63	77	79	68	65	72	83	69	65	69	76	59.5
	Minimum	25	34	29	25	33	17	6	11	26	29	34	30	34	42	47	47	45	43	45	36	31	31	44	51	54	45	46	49	46	45	43	34.8
Columbia	Maximum	50	58	45	60	59	28	35	48	63	62	64	57	67	75	75	87	73	70	64	45	57	74	78	74	65	72	86	75	62	58	74	63.2
	Minimum	31	41	30	32	28	21	14	26	34	30	47	35	33	48	55	55	51	50	44	33	33	37	55	60	54	53	60	59	49	46	43	41.5
Fayette	Maximum	53	55	57	60	60	32	32	50	63	61	57	57	67	74	71	84	78	71	69	50	59	75	79	74	68	70	84	76	61	59	72	63.8
	Minimum	29	40	28	32	31	20	11	23	28	29	44	33	30	44	55	47	49	46	50	32	31	34	51	60	55	48	51	53	47	48	40	39.3
Grant City	Maximum	48	44	43	49	48	24	34	49	58	59	59	58	67	62	62	76	66	75	68	55	67	76	75	72	64	68	80	75	67	70	74	61.0
	Minimum	28	37	16	27	16	10	2	23	31	30	43	30	34	48	53	43	42	42	40	34	26	39	50	51	55	44	51	45	42	43	42	36.0
Hannibal	Maximum	53	55	55	54	60	30	34	46	60	58	53	55	63	72	75	86	73	71	65	45	55	71	78	71	68	68	85	76	60	57	71	62.0
	Minimum	22	40	29	30	28	23	20	23	32	32	39	32	32	45	54	50	50	46	44	31	33	37	51	60	53	51	51	57	47	48	43	39.8
Kansas City Airport	Maximum	48	59	45	61	55	24	32	51	64	65	56	59	70	70	64	79	68	73	62	55	66	75	77	65	68	72	82	70	63	67	73	62.5
	Minimum	32	31	25	32	21	15	9	22	38	31	45	35	39	52	54	54	47	53	42	39	34	48	58	53	56	48	62	50	48	50	47	41.0
Kirksville	Maximum	51	47	50	52	52	29	34	47	62	60	57	59	67	67	67	80	76	75	68	47	63	76	79	75	68	70	84	79	64	64	75	62.7
	Minimum	30	39	24	29	27	19	11	20	32	32	41	30	35	48	55	47	47	42	44	35	31	39	49	57	57	49	50	51	46	45	42	38.8
Lawson	Maximum	47	51	52	58	55	23	38	48	63	63	55	57	69	68	65	79	72	73	65	53	63	76	76	68	65	70	80	72	64	68	73	62.2
	Minimum	24	39	23	31	23	15	2	20	33	29	47	31	39	49	53	49	43	43	42	36	30	41	53	53	55	44	56	47	45	45	43	38.2
Louisiana /	Maximum	53	59	57	56	63	31	33	47	60	60	60	56	65	73	76	86	65	73	61	42	54	71	78	70	62	70	84	72	61	54	65	61.8
	Minimum	22	31	33	32	29	21	24	24	26	30	31	34	26	28	45	42	52	36	47	42	33	30	36	54	57	50	46	60	48	48	39	37.3
Macon /	Maximum	51	55	47	57	55	28	35	46	58	60	53	56	66	71	67	83	62	74	57	45	60	74	78	73	63	67	83	71	62	62	72	61.0
	Minimum	24	31	27	27	31	20	14	13	17	30	31	31	32	37	48	46	47	41	44	37	32	32	42	54	57	51	50	54	47	45	44	36.6
Maryville	Maximum	49	45	43	46	44	23	33	48	59	59	60	58	67	64	60	76	69	75	72	53	61	76	74	71	65	66	79	75	66	69	74	60 6
	Minimum	25	36	14	27	14	8	3	20	29	25	44	28	33	49	51	45	38	42	38	33	29	37	49	52	53	43	46	40	42	43	38	34.6
Mexico /	Maximum	52	57	47	58	62	28	37	49	61	62	..	..	..	74	75	87	66	71	61	40	56	73	78	72	64	70	84	76	62	56	72	[c]62.5
	Minimum	22	31	31	31	31	23	20	19	24	30	31	33	31	30	45	50	53	45	47	37	32	32	38	52	56	50	51	54	47	48	42	37.6
Moberly /	Maximum	52	56	46	58	58	27	35	46	60	61	53	57	65	72	69	85	64	70	69	44	58	74	77	68	72	68	83	71	61	58	71	61.5
	Minimum	28	35	28	28	33	21	12	17	26	30	37	32	33	42	56	46	49	42	52	32	30	33	45	57	52	52	53	53	48	45	42	38.4
Oregon	Maximum	49	48	46	56	55	27	39	52	62	64	59	58	71	62	67	79	72	78	66	55	65	76	77	72	65	70	81	79	69	72	75	63.4
	Minimum	30	37	18	30	17	9	5	24	34	33	46	30	40	51	52	52	40	47	40	35	31	45	53	52	55	42	56	42	43	45	44	38.0
St. Charles /	Maximum	47	53	57	60	66	33	32	49	65	63	70	59	60	76	81	89	71	72	63	49	59	74	80	72	65	75	86	85	63	52	74	64.5
	Minimum	27	31	35	32	32	32	25	25	29	31	31	40	31	31	46	48	54	48	55	48	36	33	36	49	58	52	53	61	52	51	43	40.5
St. Joseph	Maximum	48	52	45	58	47	23	36	51	61	63	54	60	70	67	65	80	67	77	56	56	64	77	76	63	65	72	81	66	69	70	76	61.8
	Minimum	33	27	21	32	17	13	10	25	36	33	41	34	42	53	54	53	43	49	40	38	33	47	55	51	53	45	58	49	47	48	45	39.5
Trenton	Maximum	47	50	48	51	45	23	35	51	60	61	62	58	67	65	65	79	75	75	70	62	63	75	77	75	70	68	82	76	74	68	74	62.9
	Minimum	24	37	25	30	23	17	12	20	29	27	42	32	33	45	55	48	45	43	42	35	31	38	50	50	58	44	52	48	46	44	42	37.6
Unionville /	Maximum	52	48	46	57	45	25	35	49	63	63	54	60	66	68	65	66	65	78	57	53	63	75	79	70	64	67	87	69	69	75	80	61.7
	Minimum	20	27	20	20	27	15	5	5	20	30	27	27	26	33	44	44	45	40	40	33	29	26	36	48	55	45	43	46	42	42	40	32.3
Warrenton	Maximum	49	57	60	60	60	58	32	47	63	62	68	65	65	74	78	88	81	71	65	62	57	71	78	75	70	72	85	82	80	59	71	66.6
	Minimum	28	39	32	29	48	25	21	21	29	28	41	37	28	41	57	47	56	43	52	34	33	32	49	59	55	48	53	58	48	47	39	40.5
Keokuk, Iowa	Maximum	52	53	45	53	56	30	33	46	60	58	55	55	62	70	70	84	72	72	62	46	58	71	79	71	66	67	83	71	61	61	72	61.1
	Minimum	31	41	28	30	24	23	18	23	37	33	42	32	38	52	54	49	50	45	40	34	34	42	53	61	54	52	57	53	48	48	48	41.2
Southwestern Division																																	
Clinton	Maximum	..	63	47	63	60	30	34	50	63	69	62	60	73	54	68	85	70	75	63	54	62	88	80	77	67	74	81	77	63	60	75	[a]64.9
	Minimum	..	38	36	31	27	12	21	34	48	46	51	39	51	46	52	49	40	42	43	33	33	32	46	52	50	47	52	46	42	46	36	[a]40.7
Eldon	Maximum	48	61	60	67	62	35	37	52	64	65	67	60	71	75	76	86	68	72	68	61	58	76	79	76	71	74	84	76	71	57	72	66.1
	Minimum	38	39	31	34	32	23	15	24	30	32	44	38	31	44	57	50	52	44	53	33	33	34	51	58	55	50	53	50	48	50	41	40.9
Harrisonville /	Maximum	51	59	45	53	54	27	34	53	64	64	57	58	70	71	61	81	65	71	56	55	64	76	77	68	66	73	78	69	63	65	75	62.0
	Minimum	27	28	25	26	32	16	8	14	22	32	44	33	36	38	52	50	43	45	48	37	30	35	41	54	53	44	52	49	46	47	41	37.0
Jefferson City /	Maximum	49	61	49	66	63	32	38	51	64	65	68	§50	69	76	78	88	68	70	64	43	60	75	75	74	64	75	86	82	63	52	64	64.3
	Minimum	29	31	33	31	34	28	19	19	26	32	35	40	33	33	47	53	55	46	49	43	35	35	37	50	56	52	52	58	49	48	43	39.7
Joplin	Maximum	46	65	52	69	68	30	35	52	63	69	66	62	69	71	71	81	73	70	70	54	62	75	74	75	67	78	83	81	66	58	71	65.4
	Minimum	31	46	32	42	30	22	20	29	38	40	54	46	41	53	55	64	52	53	49	36	38	45	62	62	55	51	66	63	53	51	46	46.0
Lamar /	Maximum	44	62	51	68	65	30	40	55	64	69	67	65	71	70	70	84	66	73	69	55	64	76	77	72	67	75	83	80	61	57	71	65.2
	Minimum	24	30	29	29	38	24	17	17	25	30	37	43	35	35	47	50	47	47	51	36	30	30	39	55	51	45	46	54	48	47	40	37.9
Lebanon	Maximum	43	60	60	65	67	58	30	49	64	67	67	61	69	72	76	85	78	79	67	63	58	74	76	76	70	74	80	82	82	61	70	67.2
	Minimum	27	37	31	34	50	23	17	23	30	32	47	41	32	46	55	54	51	50	54	35	31	34	51	59	52	47	56	57	50	50	40	41.8
Lexington /	Maximum	50	58	48	64	57	28	36	50	66	67	59	62	65	72	65	82	68	74	53	56	66	79	82	72	67	74	82	72	65	78	56	63.6
	Minimum	26	33	28	29	40	18	11	12	23	36	37	34	35	38	41	48	48	48	50	38	38	36	38	62	54	50	54	54	50	48	50	38.9
Marshall	Maximum	55	54	58	..	62	52	43	48	64	63	67	57	68	73	72	83	81	75	71	51	58	78	79	79	80	69	83	82	68	62	73	[a]66.9
	Minimum	31	41	28	..	29	18	9	21	33	31	34	38	33	48	54	49	47	50	45	33	32	38	39	60	55	48	55	54	48	48	43	[a]39.7
Mountain Grove	Maximum	42	59	59	62	61	61	33	49	63	66	64	63	66	68	75	81	77	69	62	63	59	71	70	70	70	75	80	80	77	63	68	65.4
	Minimum	27	36	33	38	49	25	19	23	30	35	42	45	37	42	53	52	54	52	51	36	34	38	48	56	51	48	53	53	58	51	40	42.2
Neosho	Maximum	46	66	63	66	62	37	38	54	65	70	68	64	71	71	74	82	80	70	70	70	62	76	75	74	70	79	83	83	80	60	72	67.8
	Minimum	29	38	32	35	37	24	14	25	28	30	45	46	30	45	52	52	51	52	55	38	29	30	59	63	52	46	54	53	53	54	38	41.6
Nevada	Maximum	47	64	62	68	59	30	41	56	65	69	67	65	71	71	67	85	72	75	70	58	64	75	77	72	67	75	83	79	76	62	72	66.6
	Minimum	29	39	27	34	29	20	15	27	32	35	49	41	35	46	53	53	48	59	55	37	33	40	52	59	53	47	56	57	50	52	41	42.0
Sedalia	Maximum	51	60	59	67	64	31	34	50	63	66	64	57	70	73	72	83	80	74	72	54	57	76	80	79	75	70	83	81	70	60	72	66.0
	Minimum	30	40	29	34	31	21	10	24	32	32	47	37	36	45	54	53	48	48	54	32	31	39	54	60	54	48	55	55	48	50	43	41.1
Springfield .. ½ mile E	Maximum	40	60	52	64	65	31	34	49	62	66	56	61	67	70	74	84	67	68	62	47	59	72	72	72	61	74	80	82	63	56	67	62.5
	Minimum	28	38	32	40	31	20	17	26	30	35	45	43	39	46	52	54	51	52	47	36	34	35	59	59	51	47	55	53	52	45	39	41.5
Warrensburg	Maximum	52	56	59	66	65	30	35	50	64	65	63	59	69	73	72	82	82	..	72	52	62	75	78	79	67	72	83	83	71	62	73	[a]65.7
	Minimum	30	40	23	33	28	18	12	23	34	34	44	35	37	49	53	54	42	..	48	33	33	41	54	59	54	47	57	54	48	50	44	[a]40.4
Southeastern Division																																	
Arcadia /	Maximum	50	60	60	65	69	60	40	54	70	70	65	70	74	73	80	84	78	74	65	64	65	76	80	80	70	78	83	83	78	60	72	69.4
	Minimum	25	30	43	30	33	33	22	22	22	22	32	42	22	26	35	48	48	44	48	51	36	28	28	44	57	49	49	55	52	51	42	37.7
Birch Tree .. ½ mile E	Maximum	44	61	59	63	62	62	41	..	63	68	63	63	66	70	78	81	74	70	63	63	60	72	..	74	72	76	82	82	73	64	70	[b]66.9
	Minimum	24	40	38	37	51	30	22	..	23	30	34	47	28	35	57	44	46	48	55	39	39	27	..	54	54	49	65	55	..	52	41	[c]41.6
Caruthersville /	Maximum	52	58	58	60	72	69	41	50	58	62	66	59	64	68	78	82	74	70	80	59	61	63	72	78	68	75	80	78	76	71	65	66.7
	Minimum	30	31	48	40	40	58	31	33	34	35	35	43	41	41	45	59	60	55	55	56	43	37	39	56	56	52	52	58	62	61	51	46.4
Crystal City	Maximum	47	60	62	60	69	62	33	48	66	65	67	63	67	75	81	87	81	74	65	61	60	74	79	76	70	78	85	86	84	62	73	68.4
	Minimum	26	40	37	31	48	31	24	24	22	28	35	43	27	39	54	44	60	42	55	38	36	28	45	56	55	49	52	59	60	50	42	41.3
Doniphan	Maximum	52	65	63	63	68	75	48	56	64	70	64	63	68	72	80	82	78	72	72	70	65	71	76	76	74	80	83	82	80	75	74	70.4
	Minimum	25	44	45	35	51	36	28	25	24	30	41	49	29	33	58	44	63	49	56	45	43	29	42	57	56	44	53	52	61	50	42	43.2
Farmington	Maximum	46	61	60	63	60	61	33	45	64	62	62	58	72	74	78	81	75	70	62	61	56	71	75	72	70	76	81	81	73	61	71	65.6
	Minimum	29	39	37	31	49	29	22	24	26	38	38	45	32	42	57	52	60	48	55	36	36	30	52	58	56	49	56	58	60	50	43	43.1
Jackson	Maximum	48	60	61	63	64	64	39	47	58	62	64	63	66	70	73	82	81	73	71	63	57	66	75	74	74	76	80	79	78	74	74	67.1
	Minimum	26	42	43	48	30	35	28	27	26	33	35	48	32	37	37	56	63	53	57	48	38	31	46	56	59	51	55	55	62	52	44	43.6
Poplar Bluff	Maximum	49	65	65	64	68	67	47	53	61	68	64	60	68	71	80	84	75	67	72	63	63	70	75	76	71	80	83	82	75	71	74	68.7
	Minimum	26	44	45	34	51	34	26	26	26	32	33	41	35	34	57	45	52	50	53	42	42	30	42	55	54	41	51	51	60	59	44	42.4
Rolla /	Maximum	48	60	49	66	62	32	29	47	65	65	65	59	68	71	76	85	70	69	63	44	58	73	74	71	58	75	83	82	59	52	72	63.0
	Minimum	29	32	33	34	43	30	20	22	28	35	40	42	33	43	53	50	58	47	55	43	34	35	50	59	53	51	57	59	55	50	40	42.4
St. Louis	Maximum	45	62	59	56	63	41	32	46	61	60	63	57	63	72	79	85	68	71	63	58	54	71	77	70	66	74	84	83	66	54	71	63.7
	Minimum	33	40	36	35	41	26	25	30	35	39	42	39	42	48	57	56	58	53	58	37	38	42	48	60	55	52	59	63	53	47	46	44.9
Salem	Maximum	46	60	60	66	62	59	28	45	65	66	62	61	68	73	77	85	76	69	63	60	58	73	72	70	70	75	83	83	74	60	72	65.8
	Minimum	28	38	34	34	49	26	21	23	26	30	41	44	27	42	57	50	57	46	54	35	35	31	49	59	52	49	55	57	59	50	40	41.9
Sikeston /	Maximum	51	64	54	64	70	50	43	48	59	65	66	58	68	71	79	84	74	70	75	60	60	76	74	78	67	77	82	80	76	73	70	67.3
	Minimum	28	32	45	33	38	47	30	30	36	40	41	48	42	44	50	58	..	..	..	..	..	..	38	55	59	52	55	57	60	56	51	[f]45.0
Union ...... 1½ mi. SE	Maximum	49	62	62	64	69	62	30	45	63	61	68	65	67	75	78	88	87	76	65	62	63	73	78	73	72	74	85	84	82	60	62	67.9
	Minimum	25	40	34	31	49	28	22	25	25	27	38	41	26	38	57	42	60	40	54	37	35	29	46	61	56	*48*	48	60	52	50	40	40.8
West Plains	Maximum	43	61	52	62	62	46	43	55	65	68	59	64	67	69	78	81	75	63	64	56	62	72	71	74	71	78	82	83	73	59	71	65.5
	Minimum	25	41	38	40	45	27	21	24	24	32	33	37	30	35	56	43	57	50	55	40	34	29	47	59	59	51	53	48	58	51	40	41.4
Cairo, Ill.	Maximum	51	62	59	63	69	69	40	46	56	59	66	57	64	70	77	81	73	70	75	60	59	65	70	75	70	74	81	79	75	70	66	66.2
	Minimum	32	48	42	39	54	34	32	35	33	39	44	44	44	47	60	62	59	57	58	42	40	41	51	60	59	56	60	62	62	55	52	48.5

/ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs. [a], [b], [c], etc., number of days missing, for example, [b] indicates two days missing. Italics data interpolated. § Partly interpolated.


MISSOURI
SCALE OF MILES
10 5 0 10 20 30 40 50
LEGEND
● Section Center.
● Weather Bureau Office.
○ Substation (Temperature and Precipitation).
□ Substation (Precipitation).
△ Substation (Evaporation, Temperature, and Precipitation.)
NOTE.—Dash (—) above station symbol indicates availability of hourly temperature data; below symbol, autographic precipitation records.
C.E.J. 5-1-44

WBO, St. Louis. 4-30-45—1000.

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U. S. DEPARTMENT OF COMMERCE, WEATHER BUREAU

CLIMATOLOGICAL DATA

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Vol. XLVIV April 1945 No. 4

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GENERAL SUMMARY

April 1945 was an unusually wet month, particularly over the Southwestern and Southeastern Divisions. It was the wettest April since 1927 and the third-wettest month of its name in the past 58 years. For the three-month period, February, March, and April of this year, precipitation averaged more than for any comparable period since State-wide records were begun in 1888, for the State as a whole. An average of 19.24 inches of precipitation fell during those three months of this year as compared to 15.68 inches in 1927, the previous wettest comparable three-month period.

The precipitation this month was unusually frequent, occurring on an average of fourteen days, for the State as a whole, and only in 1927 has this frequency been equalled in April. Several stations had measurable rain during the current month on fifteen to twenty days. Heavy to excessive local rains caused serious soil erosion in fields that had been previously plowed, or worked, some stations reporting falls of four and five inches in a twenty-four hour period.

Snowfall was of little consequence during April, measurable amounts of one inch or less, being confined to a few extreme northwestern counties. Elsewhere monthly totals were only a trace, with most stations in the southern half of the State reporting no snow.

Severe flood conditions which prevailed during much of March continued throughout most of April, in the lower Missouri River and in the adjacent Mississippi River, as well as in all rivers and streams in the southern half of the State. Severe overflows also occurred in most streams in the northern half of the State during the month, but the duration and frequency of the overflows in that area were not so prolonged, nor so frequent as in the southern half, where the April rainfall was heavier.

Temperature averages were exactly normal for both the Northern and Southwestern Divisions, while the Southeastern Division and the State averaged 1.4° and 0.6° warmer than normal, respectively. A decidedly cool period occurred from the 4th to 6th, when minimum temperatures dropped to freezing and below, quite generally, and heavy to killing frosts caused some damage to fruit, which was unseasonably advanced, over much of the State, except in the extreme southerns portions. Other cool periods occurred from the 17th to 19th and the last week of the month, while the first three days of April and from the 7th to 13th were warm periods. Very little freezing occurred after the 6th, as a rule, although light to heavy frosts formed later in the month, but generally without damage. There were no unusual extremes of temperature reported.

Sunshine averaged considerably less than normal, except over the eastern third of the State, where it was only slightly less than normal.

Several destructive small tornadoes, hailstorms, and local windstorms occurred during the month, principally on the 12th, 13th, and 16th; described in detail elsewhere in this issue.

The frequent and generally moderate to heavy precipitation during the month kept fields too wet to work most of the time, and seasonal work of plowing and planting was seriously interrupted. This work was from four to six weeks behind the usual stage of advancement at the end of April. Very little corn had been planted and less than one-half of the intended oat acreage was seeded, because of continued wet fields. All small grains made good growth and development, but were showing the effects of too much moisture and lack of sunshine and warmer weather at the close of the month. Gardens and truck crops were unusually late and many gardens had not even been plowed. Those that were planted earlier made little growth and progress. Many potatoes also had not been planted at the close of April. All fruits were unusually far advanced for the time of year and much damage occurred in some sections of the State, as a result of the hard freeze and frost on the 5th and 6th. All grasses made fair to good growth and provided ample pasturage for livestock, but needed sunshine and warmer weather the latter part of the month for best grazing results. Cotton planting in the extreme southeastern counties was seriously curtailed by the persistent wet weather, and much of the acreage intended for this crop was expected to be planted to beans or other crops because of the lateness of the season.

It is doubtful if there ever was a spring that offered so many hindrances to agriculture as the current one, with its unprecedented rainfall, frequent and prolonged overflowing of rivers and streams, and labor and material shortages, and this in the face of urgent and increasing demands for increased production of all crops and livestock, for home and foreign consumption.—M. R. W.

(Continued on page 27)

PRESSURE, WIND, HUMIDITY, AND SUNSHINE

Stations	Sea-level pressure, extremes-inches Highest	Date	Lowest	Date	Wind Average hourly velocity	Maximum velocity	Direction	Date	Relative humidity ¶ 6:30 a. m.	12:30 p. m.	6:30 p. m.	Percentage of sunshine	Degree days
Columbia	30.54*	5	29.34*	16	8.8	27	sw.	16	79*	56*	60*	45	311
Kan. City Airp't.	30.66	5	29.25	16	12.6	42	sw.	16	78	57	58	42	326
St. Joseph	30.54*	5	29.17*	16	10.4	32	w.	16	83*	59*	61*	56	376
St. Louis	30.52*	6	29.34*	2	13.4	43	sw.	16	78	54	60*	54	253
Springfield	30.56	5	29.33	2	11.6	46	sw.	16	88	64	66	37	285
Cairo, Ill.	30.58	6	29.37	2	9.2	29	sw.	25	79	60	..	62	141
....	.....	..	.....	..	....	..	......	..	..	..	..	..	....

* Data for Airport station. ¶ C. S. T.

COMPARATIVE DATA FOR APRIL

Year	Temperature			Precipitation					Number of days			
	Average for State	Highest	Lowest	Average for State	Average, Northern Division	Average, Southwestern Division	Average, Southeastern Division	Snowfall, Average for State	Precip. .01 inch or more	Clear	Partly cloudy	Cloudy
1888	57.9	94	20	1.92	1.54	2.37	1.85	....	5	..	..	..
1889	55.7	90	27	2.66	2.84	3.31	1.83	....	8	..	..	..
1890	56.2	93	25	3.58	2.26	3.43	5.05	....	8	..	..	..
1891	56.8	93	15	3.46	3.88	4.08	2.41	T.	9	..	..	..
1892	53.1	90	24	5.83	5.14	5.35	7.01	0 0	11	9	8	13
1893	53.9	95	19	8.27	6.37	9.14	9.29	0.0	12	8	9	13
1894	56.1	95	20	3.11	2.24	3.52	3.58	T.	8	12	10	8
1895	57.9	100	24	2.04	1.87	2.08	2.17	T.	7	14	8	8
1896	61.9	92	17	3.57	3.10	4.35	3.25	0.0	9	11	12	7
1897	54.4	88	21	4.65	4.07	3.78	6.10	T.	10	10	11	9
1898	52.5	90	14	3.64	3.77	3.75	3.40	T.	10	12	9	9
1899	54.0	96	6	3.80	3.46	4.02	3.93	3.8	8	12	9	9
1900	56.7	89	21	3.50	3.05	3.66	3.78	0.7	9	11	10	9
1901	53.3	94	24	2.96	2.63	2.83	3.41	1.8	8	14	7	9
1902	53.9	95	19	2.82	1.98	3.30	3.18	T.	11	13	11	6
1903	55.9	91	26	3.37	3.97	3.34	2.79	1.2	9	11	10	9
1904	49.0	84	19	5.63	6.14	6.07	4.67	2.7	9	15	6	9
1905	54.9	92	20	3.09	3.66	2.28	3.34	0.3	6	14	8	8
1906	59.5	93	22	2.42	2.67	2.40	2.18	0.0	6	17	7	6
1907	48.7	89	16	3.33	2.62	3.83	3.55	T.	8	11	8	11
1908	56.6	90	18	5.89	2.55	6.58	8.53	T.	11	11	8	11
1909	54.8	93	19	4.72	4.36	3.60	6.21	T.	8	13	9	8
1910	54.8	97	21	3.58	2.74	3.55	4.45	0.9	11	12	7	11
1911	53.5	91	20	4.93	4.28	4.70	5.81	T.	10	12	8	10
1912	56.0	89	24	6.08	3.78	6.47	8.00	0.7	10	13	7	10
1913	56.2	94	25	3.32	3.36	3.10	3.50	T.	7	16	5	9
1914	55.2	91	18	3.14	2.57	3.11	3.75	T.	8	12	7	11
1915	61.9	96	18	2.12	1.93	2.64	1.79	T.	7	16	8	6
1916	53.5	93	21	3.32	2.77	3.93	3.27	1.9	10	11	8	11
1917	53.2	89	19	5.95	5.66	5.08	7.11	1.2	12	12	6	12
1918	50.8	93	19	5.33	3.61	5.26	7.11	0.9	11	12	6	12
1919	55.3	94	20	3.03	3.15	3.46	2.47	T.	9	12	7	11
1920	50.2	89	4	3.82	4.86	3.30	3.31	4.8	11	11	7	12
1921	56.0	91	19	5.36	4.70	5.22	6.16	1.1	10	13	7	10
1922	57.3	91	24	6.41	4.96	8.47	5.81	T.	11	13	6	11
1923	54.2	92	14	3.26	2.52	3.38	3.89	0.4	8	14	8	8
1924	56.6	95	11	2.15	1.26	2.78	2.40	T.	6	14	8	8
1925	61.0	92	24	4.12	4.12	4.73	3.52	0.0	10	12	9	9
1926	49.9	91	11	2.42	2.39	2.17	2.69	2.4	8	14	6	10
1927	57.7	94	18	8.68	6.73	8.61	10.70	T.	14	10	7	13
1928	51.6	88	16	4.86	2.76	5.46	6.37	0.2	8	13	7	10
1929	57.4	96	27	6.15	6.32	6.58	5.56	0.0	12	11	8	11
1930	59.1	96	23	2.02	1.89	2.77	1.39	0.0	8	14	8	8
1931	54.8	90	22	2.96	2.92	2.77	3.18	T.	9	14	6	10
1932	57.6	95	22	2.58	2.43	2.52	2.78	0.0	8	14	8	8
1933	54.9	88	22	3.84	2.08	3.82	5.62	0.7	10	11	9	10
1934	56.5	90	24	2.50	2.06	2.61	2.84	T.	7	16	8	6
1935	52.3	90	23	2.90	3.10	3.02	2.59	0.7	9	9	7	14
1936	53.0	95	9	2.45	2.00	1.93	3.41	0.5	8	16	7	7
1937	54.5	93	21	4.04	3.25	3.67	5.21	T.	10	10	8	12
1938	56.7	89	18	3.68	3.79	4.13	3.13	3.2	10	13	9	8
1939	53.4	88	16	5.01	4.35	4.32	6.36	0.1	10	11	8	11
1940	54.0	92	15	4.41	3.01	4.57	5.64	0.3	11	11	8	11
1941	59.2	90	29	4.49	3.47	6.20	3.81	0.0	10	11	9	10
1942	59.1	94	20	3.83	3.07	4.56	3.87	0.0	9	14	8	8
1943	56.0	91	18	2.91	2.28	3.15	3.30	T.	9	13	10	7
1944	52.2	89	16	6.68	7.69	5.78	6.57	0.0	13	8	9	13
1945	55.9	86	20	7.75	5.73	9.00	8.52	T	14	9	8	13
....	....	..	..	....	....	....	....	....	..	..	..	..
....	....	..	..	....	....	....	....	....	..	..	..	..
....	....	..	..	....	....	....	....	....	..	..	..	..
Period	**55.3**	**100**	**4**	**4.04**	**3.48**	**4.20**	**4.44**	**0.6**	**9**	**12**	**8**	**10**

Climatological Data for April 1945

Stations	Counties	Elevation, feet	Temperature, in degrees Fahr.							Precipitation, in inches						Number of days				Prevailing direction of wind	Observers
			Length of record, years	Mean	Departure from the normal	Highest	Date	Lowest	Date	Length of record, years	Total	Departure from the normal	Greatest in 24 hours [4]	Date	Total snowfall, unmelted	With precip., .01 inch or more	Clear	Partly cloudy	Cloudy		
Northern Division																					
Albany	Gentry	930	4	51.9	......	84	20	25	5	16	5.07	+2.28	1.65	15-16	0	12	13	7	10	s.	Curtis E. Grace
Bethany‡	Harrison	916	50	52.4	+ 0.9	78	20	26	5	52	4.44§	+1.15	1.56	15-16	T.	9	9	12	9	se.	A. S. Cumming
Brookfield	Linn	767	4	53.4	......	84	10	27	5	4	3.43	......	1.30	24	0	11	19	2	9	e.	G. F. Breen
Brunswick	Chariton	652	64	53.4	− 0.8	80	10	30	5†	66	5.47	+1.64	1.12	12-13	0	13	14	3	13	nw.	O. K. Benecke
Canton, Lock & Dam 20	Lewis	488	7	53.5	......	76	10	31	5	15	5.81	+3.05	2.55	12-13	0	13	9	9	12	s.	Lockmaster
Chillicothe	Livingston	779	36	52.8	+ 0.8	81	9	28	5	39	5.05	+1.83	1.56	16	0	12	20	2	8	ne.	Wm. J. Olenhouse
Clifton Hill	Randolph	731	46	54.4	+ 0.9	79	10†	26	5	36	6.92	+3.56	1.87	13	0	15	7	8	15	sw.	Dr. A J. Bradsher
Columbia	Boone	740	55	55.0	+ 0.2	80	10	29	5	55	6.36	+2.59	1.63	12-13	T.	18	6	10	14	s.	U. S. Weather Bureau
Conception	Nodaway	1,108	56	51.2	— 1.0	78	20	25	5	61	6.61	+3.88	2.22	16	0.2	12	9	7	14	se.	Fr. Adelhelm Hess
Edgerton	Platte	856	25	53.8	0.0	79	20	24	5	42	6.40	+3.32	1.34	13-14	0	11	12	7	11	se.	Paul C. Handley
Elsberry	Lincoln	149	14	....	......	..	..	..	..	14	....	......	....	..	....	..	..	..	..	......	John Dowell
Fayette	Howard	760	65	54.2	0.0	82	13	28	5	62	7.08	+3.53	2.35	13	T.	12	13	1	16	sw.	Irvin E. Schnell
Fulton	Callaway	818	57	53.8	− 0.8	80	10	29	5	53	5.60	+1.59	1.28	12-13	0	14	14	5	11	s.	Frank E. Hillgartner
Grant City	Worth	1,134	41	51.0	− 1.2	78	20	25	5	53	5.36	+2.40	1.66	15-16	0.9	10	10	10	10	e.	J. Homer Korn
Hannibal	Marion	759	53	54.2	+ 0.8	80	10	32	4	61	5.47	+2.28	1.54	12-13	0	16	8	10	12	s.	Hannibal Water Dept.
Kansas City Airport	Jackson	741	56	54.4	− 0.4	80	20	30	5	56	6.63	+3.11	2.37	15-16	T.	15	6	5	19	ne.	U. S. Weather Bureau
Kansas City Univ	Jackson	908	7	54.7	......	80	20	27	5	7	7.21	......	1.56	14-15	0	13	6	7	17	sw.	University of Kansas City
Kidder	Caldwell	1,020	53	51.2	− 1.0	79	20	23	5	57	5.85	+2.57	2.10	15-16	T.	12	8	5	17	n.	Mrs. Geraldine Terry
Kirksville	Adair	969	56	54.2	+ 2.3	81	9†	28	5	63	3.99	−0.11	0.96	15-16	T.	14	6	7	17	sw.	P. O. Solby
Lawson	Ray	1,070	7	52.6	......	78	9†	25	5	7	5.92	......	1.40	15	T.	13	3	16	11	ne.	Elmer E. Lamb
Louisiana	Pike	469	51	54.4	+ 0.4	79	9†	30	19	64	6.24	+2.52	1.10	1-2	0	13	11	10	9	s.	Stark Bro's Nurseries
Macon	Macon	875	46	52.2	− 0.9	79	10	28	5	52	5.70	+2.04	1.51	15	T.	15	4	15	11	ne.	John W. Atwell
Maryville	Nodaway	1,169	55	50.0	− 0.8	78	20	21	5	51	6.51	+3.50	2.21	15-16	1.0	12	9	7	14	sw.	R. B. Montomery
Memphis	Scotland	787	6	51.2	......	79	10	23	6	15	3.72	+0.52	1.05	15-16	0	9	13	6	11	sw.	John W. Alexander
Mexico	Audrain	800	56	53.4	− 0.4	79	9†	29	5	67	5.30§	+1.55	1.43	12-13	0	12	12	7	11	s.	Darrence W. Stuart
Moberly ....3½ mi. NE	Randolph	860	8	54.1	......	81	13	27	5	8	8.39	......	2.56	12-13	0	13	10	6	14	se.	F. W. Bell
New Florence. 1 mi SE	Montgomery	885	2	54.0	......	79	10	29	5	3	5.55	......	1.59	12-13	T.	17	3	9	18	se.	U. S. Weather Bureau
Oregon	Holt	1,048	89	52.8	+ 0.1	82	20	25	5	89	6.58	+3.29	1.60	10-11†	0.5	12	10	11	9	ne.	Miss Mina Wright
St. Charles	St. Charles	520	57	56.7	+ 1.1	81	10	31	5	67	6.90	+3.15	2.18	12-13	T.	15	11	7	12	nw.	Martin L. Comann
St. Joseph	Buchanan	957	35	52.6	− 0.9	81	20	28	5	73	6.36	+3.17	2.75	14-15	T.	15	14	8	8	s.	U. S. Weather Bureau
Saverton, Lock No. 22	Ralls	472	7	55.0	......	78	9†	31	5	7	6.39	......	1.74	12-13	T.	15	9	6	15	se.	Lockmaster
Shelbina	Shelby	779	4	53.8[b]	......	79[b]	10	29[b]	5	52	6.77	+3.02	2.46	12-13	T.	14	11[b]	7[b]	10[b]	nw.	Guyman Hatcher
Steffenville	Lewis	650	47	53.8	+ 0.7	79	10	29	5	52	5.69	+2.11	1.32	12-13	0	14	13	8	9	s.	Mrs. Fannie V. Gross
Tarkio	Atchison	916	42	49.9	− 2.3	80	20	23	5	51	4.22	+0.98	1.14	3	1.0	12	6	11	13	s.	C. A. A. Station
Trenton	Grundy	822	49	54.0	+ 1.3	79	9†	28	5	50	4.95	+1.37	1.93	16	T.	11	8	15	7	s.	W. H. Estes
Unionville	Putnam	1,062	52	50.7	− 0.3	85	9	25	5†	52	4.24	+0.54	1.35	15-16	0	12	12	9	9	w.	C. D. Wilson
Vandalia	Audrain	766	1	....	......	..	..	..	..	6	....	......	....	..	....	..	..	..	..	......	H. G. McIntire
Warrenton	Warren	816	63	56.2	+ 1.4	80	10	29	5	55	6.55	+2.51	2.03	12-13	T.	15	13	9	8	se.	W. T. Zimmerman
Keokuk, Iowa	Lee, Ia.	574	73	53.2	+ 0.9	78	10	30	5	73	4.88	+1.89	2.05	12-13	T.	15	7	11	12	sw.	U. S. Weather Bureau
Division means	**and extremes**	.....	..	**53.3**	**0.0**	**85**	**9**	**21**	**5**	..	**5.73**	**+2.25**	**3.05**	**12-13**	**0.1**	**13**	**10**	**8**	**12**	**s.**	
Southwestern Division																					
Anderson ...1½ mi sw	McDonald	1,000	41	55.6	− 1.1	86	21	21	5	46	13.10	+8.41	4.14	12-13	0	13	10	7	13	sw.	Samuel G. Chamberlain
Appleton City	St. Clair	813	50	55.4	− 0.7	80	9†	25	5	53	5.87	+1.74	1.15	14-15	0	15	8	4	18	ne.	Rolla Brown
Bolivar	Polk	1,071	42	56.5	+ 0.2	79	10	28	5	50	10.91	+6.74	2.43	13-14	0	16	8	8	14	sw.	Southwest Baptist College
Boonville	Cooper	650	7	53.4	......	79	13	29	5	68	6.98	+3.11	1.90	12	0	12	8	5	17	se.	Boonville Water Dept.
Carthage	Jasper	962	11	57.4	......	83	3	26	5	21	8.43	......	2.15	12-13	0	13	6	19	5	se.	Carthage W. and E. Plant
Clinton	Henry	786	52	52.8	− 3.5	81	8	26	4	58	6.52	+2.35	1.27	14-15	0	17	5	6	19	s.	U. S. Weather Bureau
Eldon	Miller	934	50	56.6[a]	+ 1.2	79[a]	3†	28[a]	5	46	5.74	+1.58	1.38	13	T.	14	9	7	14	n.	E. H. Shepherd
Fort Leonard Wood	Pulaski	1,107	4	56.0	......	80	20	28	5	4	9.62	......	2.53	13-14	T.	15	9	6	15	nw.	U. S. Army Medical Corps
Harrisonville	Cass	904	67	53.0	− 0.9	78	9†	24	5	70	6.82	+3.44	1.58	15-16	0	14	6	2	22	e.	John H. Patterson
Jefferson City	Cole	557	55	55.1	− 0.9	79	3†	29	5†	63	6.51	+2.53	1.01	13-14	0	14	8	6	16	s	Mrs. Frank Kliegel
Joplin	Jasper	1,008	23	58.2	− 0.3	84	3	31	5	40	7.97	+3.27	2.10	12	0	14	11	3	16	s.	Empire Dist. Electric Co.
Lakeside	Miller	595	14	55.8	+ 0.4	81	10	32	6	14	5.91	+2.93	1.32	12-13	T.	12	5	12	13	sw.	W. S. Frame
Lamar	Barton	980	57	54.0	− 2.6	80	3†	25	5	64	9.07	+4.55	1.95	15	0	11	10	4	16	se.	Mrs. Marie Mann
Lebanon	Laclede	1,265	57	56.7	+ 1.2	79	1†	25	5	58	9.23	+4.88	1.97	12-13	0	14	5	12	13	s.	Mrs. Rosa E. Montelius
Lexington	Lafayette	688	60	55.7	+ 1.1	82	9	30	5	61	5.99§	+2.19	1.78	15-16	0	12	16[a]	0[a]	13[a]	......	Tilton Davis
Lockwood	Dade	1,078	39	58.2	+ 1.7	84	3	27	5	49	8.52	+3.99	3.40	12-13	0	14	9	11	10	se.	Hubert A. Nieman
Marshall	Saline	779	58	56.2	+ 1.4	80	10†	28	5	55	5.66§	+1.77	1.13	12-13	T.	11	12	9	9	s.	Thomas A. Reid
Mountain Grove	Wright	1,463	44	56.6	+ 1.7	79	13	26	5	48	10.27	+5.75	3.58	13-14	0	14	7	12	11	se.	Mo. Fruit Exp. Station
Mount Vernon	Lawrence	1,174	33	....	......	..	..	25	5	45	12.33	+7.88	3.46	12-13	0	14	7	11	12	s.	James C. Williamson
Neosho	Newton	1,011	58	58.5	+ 0.2	84	3	24	5	62	12.68	+8.12	5.19	12-13	0	15	5	13	12	se.	U. S. Fisheries Station
Nevada	Vernon	862	52	56.8	+ 1.1	82	20	27	5	53	7.00	+2.71	1.75	14-15	0	13	8	9	13	ne.	Henry Kraft
Ozark Beach	Taney	700	5	58.3	......	84	20	29	5†	20	13.82	+9.35	4.57	1-2	0	14	3	4	23	sw.	Empire District Elec. Co.
Sedalia	Pettis	910	32	56.0	+ 0.7	81	10	27	5	34	7.64	+3.91	2.44	12-13	0	15	13	5	12	sw.	Dr. J. E. Cannaday
Seligman	Barry	1,542	44	57.8[c]	+ 1.2	82[c]	2	23[c]	5	42	9.48	+5.42	2.84	13-14	0	12	7[c]	14[c]	6[c]	s.	Floyd E. Fawver
Seymour..3½ miles NE	Webster	1,642	39	53.1	− 2.6	77	13	25	5	39	12.02	+7.70	2.24	12-13	0	16	9	11	10	s.	A. L. Hailey
Springfield.. ½ mile E	Greene	1,301	57	55.4	+ 0.2	77	13	28	5	57	12.15	+8.29	2.54	12-13	T.	19	3	6	21	se.	U. S. Weather Bureau
Sweet Springs	Saline	700	4	56.2	......	83	13	25	5	4	5.33	......	0.88	23-24	T.	15	8	13	9	sw.	H. F. Nelson
Warrensburg	Johnson	878	58	57.0[a]	+ 0.9	81[a]	13	28[a]	5	65	5.25	+1.59	0.95	24	T.	16	9[a]	7[a]	13[a]	sw.	Central Teachers College
Warsaw	Benton	687	44	57.9	+ 1.2	80	10†	30	5	50	6.76	+2.30	1.91	15-16	0	14	10	8	12	nw.	Dora B. Johnson
Wasola	Ozark	1,294	4	58.2	......	84	13	26	5	5	10.28	......	3.10	14-15	0	14	9	8	13	s.	A. W. Pinckney
Division means	**and extremes**	.....	..	**56.1**	**0.0**	**86**	**21**	**21**	**5**	..	**9.00**	**+4.80**	**5.19**	**12-13**	**T.**	**14**	**8**	**8**	**14**	**s.**	
Southeastern Division																					
Advance.... ¼ mile W	Stoddard	854	8	58.4	......	81	13	32	5†	8	7.84	......	1.91	1	T.	17	2	9	19	s.	U. S. Weather Bureau
Arcadia	Iron	926	64	57.6	+ 2.3	84	13	25	6†	67	12.02	+7.20	3.80	13-14	0	13	13	5	12	e.	Arcadia College
Birch Tree... ½ mile E	Shannon	1,000	50	59.2[d]	+ 2.1	81[c]	13	25[d]	5	51	9.27	+4.51	1.94	12-13	0	14	9[e]	11[e]	5[e]	se.	R. C. Moger
Black.......9 miles NW	Iron.	1,000	52	55.3	+ 0.3	80	13	20	6	52	11.40	+6.51	3.24	12-13	0	16	12	9	9	w.	Claude Volner
Campbell	Dunklin	314	19	60.8[a]	+ 2.1	82[a]	13	33[a]	5†	19	9.53	+5.27	1.94	1-2	0	11	8[a]	17[a]	4[a]	s.	Mrs. Ruth Christian
Caruthersville	Pemiscot	265	49	60.9	+ 0.7	83	3	34	5†	53	6.75	+2.23	1.87	1-2	0	11	12	10	8	se.	Victor T. Malloure
Crystal City	Jefferson	420	11	57.8	+ 2.8	81	12	27	6	11	7.10	+3.46	2.12	12-13	T.	13	8	6	16	ne.	Richard K. Ragland
Doniphan	Ripley	344	41	60.2	+ 1.7	86	13	26	5	41	10.03	+5.10	2.20	15	0	15	14	5	11	sw.	Boyce Lackey
Farmington	St. Francois	896	34	56.9	0.0	82	13	30	5†	48	8.01	+3.49	2.65	13-14	0	16	7	6	17	s.	F. M. Karsch
Greenville	Wayne	460	36	59.5	+ 2.9	83	12	28	4	38	7.44	+2.74	1.63	14	0	15	13	8	9	se.	Benford Shoemake
Jackson‡	Cape Girardeau	428	54	58.6	+ 1.5	80	10†	30	5†	55	9.19	+4.85	2.10	14	0	14	5	7	18	n.	John G. Putz
Koshkonong	Oregon	958	44	59.7	+ 1.2	84	13	28	5	45	9.53	+4.51	3.36	14-15	0	15	7	8	15	se.	Mrs. Genevieve T. Smith
Licking...... 4 miles N	Texas	1,170	8	57.2	......	79	14	26	5	8	7.46	+2.78	3.48	13-14	0	12	14	3	13	s.	U. S. Forestry Service
Malden....4 miles NNW	Dunklin	292	2	60.8	......	82	3	33	5	2	9.27	......	2.86	1	0	11	6	3	21	se.	U. S. Weather Bureau

Continued on next page

Climatological Data for April 1945—Continued from preceding page

Stations	Counties	Elevation, feet	Temperature, in degrees, Fahr.							Precipitation, in inches						Number of days				Prevailing direction of wind	Observers
			Length of record, years	Mean	Departure from the normal	Highest	Date	Lowest	Date	Length of record, years	Total	Departure from the normal	Greatest in 24 hours ^{4}	Date	Total snowfall, unmelted	With precip., .01 inch or more	Clear	Partly cloudy	Cloudy		
Southeastern Division—	*Concluded*																				
Marble Hill	Bollinger	532	50	59.4	+ 2.2	82	13	28	6	52	10.50	+6.01	3.08	14-15	0	20	9	13	8	nw.	R. A. DeWitt
Poplar Bluff	Butler	339	40	59.4	− 0.1	84	14	30	6	41	7.32	+2.81	2.45	16-17	0	13	18	5	7	s.	Joe Roehm
Rolla	Phelps	1,202	45	56.0	+ 0.1	79	20	27	5	61	6.78	+2.56	2.15	1-2	T.	12	4	15	11	sw.	Rolla School of Mines
St. Louis:																					
City Office		465	108	56.9	+ 0.8	78	11	34	4	108	5.40	+1.59	1.81	12-13	T.	16	4	9	17	s.	**Section Center**
St. Louis Airport	St. Louis	556	8	56.1	+ 1.3	79	10	31	5	14	6.18	+2.56	1.97	12-13	T.	17	3	14	13	s.	U. S. Weather Bureau
St. Louis University	St. Louis City	578	33	56.8	+ 1.1	79	10†	32	4†	33	6.00	+2.14	1.22	13	T.	17	12	6	12	se.	St. Louis University
Salem	Dent	1,206	41	57.0	+ 1.0	79	10†	27	5	44	9.74	+5.24	3.27	12-13	0	14	8	10	12	s.	E. E. Martin
Sikeston	Scott	318	38	60.5	+ 2.4	82	3†	33	6	48	8.21	+3.59	2.70	14-15	0	15	11	16	3	nw.	Mrs. Lucy W. Humphreys
Union ....1½ mi. SE	Franklin	520	7	57.2	......	80	10†	29	6	28	5.36	+1.00	2.59	13-14	0	17	9	5	16	nw.	Cornelius Sieges
Vichy ....2 mi. NW	Maries	1,125	9	55.6	......	78	3	28	5	10	7.48	......	1.99	1-2	T.	16	5	12	13	s.	Civil Aeronautics Adm.
Wappapello Dam	Butler	475	6	60.1	......	83	13	33	5	6	6.65	......	1.89	15	0	16	7	11	12	sw.	U. S. Engineer Office
Weingarten	St. Genevieve	833	4	55.0	......	73	3†	29	5	5	8.65	......	2.75	14	0	12	8	9	13	n.	William J. Miller
West Plains	Howell	1,005	8	57.8	......	84	13	28	5†	8	9.60	......	2.20	14	0	18	4	11	15	se.	U. S. Weather Bureau
Willow Springs 500 ft E	Howell	1,238	4	57.6	......	83	13	25	5	38	10.36	+5.52	2.00	13-14†	0	14	8	11	11	s.	Allen Frazee
Cairo, Ill.	Alexander, Ill.	314	73	61.4	+ 2.3	81	13	38	5	74	8.27	+4.55	2.31	14-15	0	14	7	8	15	s.	U. S. Weather Bureau
Division means	**and extremes**	.....	..	**58.3**	**+ 1.4**	**86**	**13**	**20**	**6**	..	**8.52**	**+4.08**	**4.38**	**13-14**	**T.**	**15**	**9**	**9**	**12**	**s.**	
State means	**and extremes**	.....	..	**55.9**	**+ 0.6**	**86**	**13†**	**20**	**6**	..	**7.75**	**+3.71**	**5.19**	**12-13**	**T.**	**14**	**9**	**8**	**13**	**s.**	

The departures from normal temperature are computed from the averages of the entire period for stations having 10 or more years of record. Departures of precipitation for stations with 15 years or more of record are computed from a normal or "standard mean", adjusted to a uniform 35-year period; for stations of 10 to 14 years the means for the period of record are used. The normal may be found by adding the departures when minus (−) or subtracting when plus (+). Figures and letters following stations indicate distance in miles and direction of station from the city Post Office, unless otherwise indicated. T. Trace or 0.005 inch or less. ^{a}, ^{b}, ^{c}, etc., number of days missing; for example, ^{b}, indicates two days missing. Italics data interpolated. § Partly interpolated. † And other dates. ‡ Received too late to be included in means and summaries. ^{4} Best available used for stations not equipped with recorders. Post office address of: Altona is Adrian; Crane Mountain is Arcadia; East End is Goodland; Eastwood Lookout is Van Buren; Ellsinore Lookout is Mill Spring; Farber is Laddonia; Hailey is Cato; High Lookout is Birch Tree; Macedonia Lookout is Doniphan; Perry is Center; Pilot Knob is Ironton; Pineview Lookout is Duke; Sugar Camp Lookout is Cassville; Wilderness Lookout is Lampe.

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TEMPERATURE

The monthly mean for the State, 93 stations reporting, was 55.9°, or 0.6° warmer than the 58-year April average. The highest monthly mean was 60.9° at Caruthersville, and the lowest was 49.9° at Tarkio. The highest reported was 86° at Doniphan on the 13th, and at Anderson on the 21st, and the lowest was 20° near Black on the 6th.

PRECIPITATION

The average for the State, 211 stations reporting, was 7.75 inches, or 3.71 inches more than the 58-year April average. The greatest monthly amount was 13.82 inches at Ozark Beach, and the least was 3.43 inches at Brookfield. The greatest amount reported in 24 hours was 5.19 inches at Neosho on the 12-13th. The average number of days with 0.01 inch, or more of rain, was 14.

Snowfall averaged only a trace, or 0.6 inch less than the 55-year average for April. The greatest monthly snowfall was 1.0 inch at Maryville and Tarkio.

MISCELLANEOUS PHENOMENA

Floods.—In Black River, continued from March to April 6th; April 15-19th. In Bourbeuse River, 1st-2d; 4th; 16th. In Current River, continued from March to April 4th. In Gasconade River, 1st-5th; 14-18th. In Grand River, 16th-23d; 26-27th. In Meramec River, continued from March to April 6th; April 14-19th. In Mississippi River, continued from March into May, except in the reach from St. Louis to Cape Girardeau, where it was not in flood from April 11-15th. In Missouri River, at Hermann and below, continued from March to April 5th; April 15th and continued into May; in the reach from Kansas City to Waverly, 17-20th. In Osage River, on 1st; 15th and continued into May. In St. Francis River, at Fisk, continued from March into May. In White River, at Ozark Beach, 15-17th.

Fogs.—Heavy, 3d, 12th, 14th, 15th, 20th, 24th.

Frosts.—Light, 5th, 6th, 7th, 17th, 18th, 19th, 26th, 27th, 29th, 30th; heavy, 5th, 6th, 17th, 18th, 19th, 26th; killing, 4th, 5th, 6th, 18th.

Glaze.—3d, 4th.

Hail.—Light, 4th near Alton, Farmington, Macedonia Lookout; 11th at Browning and Jefferson City; 12th at Altona, Anderson, Steelville; 13th at Bowling Green, Brunswick, Hannibal, Altona, Lockwood, Marshall, Roby, Salem, Sturgeon; 14th at Fulton; 17th at Amity and Browning; 20th at Kansas City, Saverton, Steffenville; 21st at Lockwood. Moderate, 27th at Seligman. Heavy, 13th at Louisiana, Fayette, and Bolivar. (See special hailstorm notes).

Sleet.—4th, 5th, 6th, 20th.

Tornadoes.—12th. (See special tornado notes).

Windstorms.—9th, 12th, 13th, 16th, 25th. (See special windstorm notes).

HAILSTORMS

Heavy hail fell at Fayette at 6:35 p. m. (C. W. T.) on the 13th, over a path two miles wide and across most of Howard County from west to east, a distance of about twenty miles. Stones ranged from one-half inch to one and one-half inches in diameter and were as large as hulled, black walnuts. Property damage paid by insurance adjusters amounted to $3,600. Crop loss was to fruit and gardens, but amount of this damage not reported. This storm was accompanied by severe wind, but no great damage occurred therefrom.

Heavy hail also fell on the 13th at Bolivar from 3:15 p. m. to 3:22 p. m. (C. W. T.) and again from 6:55 p. m. to 7 p. m. (C. W. T.), over a path two miles wide and five miles long, extending from southwest to northeast. Some stones ranged up to as large as two inches in diameter, and many stones were one and one-fourth inches across. Severe damage resulted to fruits, small grains, and gardens, estimated at $7,000 to $8,000. Property damage to smooth asphalt roofs, window glass, greenhouse glass, and soft-type automobile tops was great, but estimate of damagenot reported.

Heavy hail fell at Louisiana on the 13th from 4:55 p. m. to 5:15 p. m. (C. W. T.), and was preceded by a moderate fall from 4:20 p. m. to 4:40 p. m. (C. W. T.). Path of this storm was one mile wide and one mile long, and movement was from southwest to northeast. Stones were one and one-half to two inches in diameter. Property damage was estimated at $150,000 to $200,000. Crops were not affected as the hail area was within the city limits. The hailstorm was accompanied by a heavy fall of rain.

TORNADOES

A series of three, or more, tornadoes struck locally in southwestern and northeastern counties of the State, between 7:00 p. m. and 10:00 p. m. (C. W. T.) on the 12th, resulting in seven deaths, injury to seventy-four persons, and property damage estimated at between $525,000 and $675,000. Crop damage was negligible. These tornadoes were evidently a continuation of similar storms which occurred in Arkansas and Oklahoma, earlier the same day, and which moved in a northeasterly direction across Missouri and into Illinois, alternately lifting and descending along the path of progression.

High winds, thunderstorms, and driving rain prevailed along a rather wide belt along the storm's path, in addition to the tornadoes that struck at various points.

The first of these tornadoes struck south-central McDonald County, at Pineville about 7:00 p. m. (C. W. T.), and moved northeastward to near Stella. One woman was killed, fifteen persons were injured and property damage was estimated at between $50,000 and $75,000 in that county. The path of this storm was from 300 to 600 feet wide and about twelve or fourteen miles in length, with the tornado lifting and descending along its course from Pineville to Stella.

A part of the same tornado, or a separate one, struck nine miles west-southwest of Mount Vernon, Lawrence County, at the same time as the one at Pineville, resulting in the death of one person, injury to six others, and property damage estimated at $150,000 to $175,000. The path of this storm was about one mile wide and about eight miles long, extending in a general northeasterly direction. The tornado then apparently lifted and did not strike again until it reached Morrisville, Polk County, at 8:45 p. m. (C. W. T.), where it dipped to earth, resulting in death to four persons, injury to sixteen others, and property damage

(Continued on page 30)

Daily Precipitation for April 1945

Stations	Drainage basins	Day of month																															Total
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	..	
Northern Division																																	
Albany	Grand	....	....	.17	.78	....	....	....	....	....	....	.90	....	.38	.01	.32	1.65	.02	T.	....	.09	....	....	.05	.30	.40	T.	....	T.	....	....	....	5.07
Amity[2]	do	....	....	....	1.23	....	....	....	....	....	....	.69	....	.33	....	.15	2.54	.01	.02	....	....	T	....	T.	.42	.01	.84	....	.10	T.	....	....	6.34
Auxvasse	Missouri	.04	.43	....	.20	....	....	....	....	....	....	.73	....	1.33	.14	.43	.25	....	.02	.02	T.	....	....	....	.62	.31	.40	....	1.07	....	....	....	5.99
Bethany‡	Grand	....	....	*	.70	....	....	....	....	....	....	.85	....	.09	....	.53	1.56	....	....	....	....	....	....	.11	*	.60	....	....	....	....	....	....	§4.44
Bowling Green[2]	Mississippi	....	1.35	.02	.15	....	....	....	....	....	....	....	.39	1.00	.90	.35	.10	.13	.03	....	....	.09	....	....	.49	.09	.60	....	.26	.02	....	....	5.97
Brookfield[2]	Grand	....	.23	....	.10	....	....	....	....	....	....	.08	....	.25	.12	.15	.96	....	....	....	....	....	....	....	.45	.85	....	....	.10	.14	....	....	3.43
Browning 3 mi. NE	do	T.	.01	T.	.42	....	....	....	....	....	T.	.74	....	.18	.01	.36	.64	.14	....	....	T.	....	....	.11	.43	.54	.12	.02	.16	....	....	....	3.88
Brunswick[2]	do	....	.37	....	.23	T.	....	....	....	....	....	....	.63	1.12	....	.07	.92	.06	T.	....	....	.05	....	....	.68	.06	.92	....	.22	.14	....	....	5.47
Canton, Lock No. 20[2]	Mississippi	....	.23	....	.04	....	....	....	....	....	....	....	.26	2.55	.02	.06	.70	.02	.07	....	.03	T.	....	....	.92	.07	.84	....	....	....	....	....	5.81
Centralia[2]	do	....	.24	....	.16	....	....	....	....	....	....	....	.26	1.91	1.26	....	.98	....	....	....	....	....	....	....	.51	.10	.79	....	.31	....	....	....	6.52
Chillicothe[2] (A)	Grand	....	....	....	.51	....	....	....	....	....	.19	.87	....	.12	.02	.06	1.56	....	.03	T.	T.	....	....	....	.51	T.	.87	....	.23	.08	....	....	5.05
Chillicothe[2] (B)	do	....	T.	....	.69	....	....	....	....	....	....	.10	.95	.16	T.	.10	1.53	T.	.12	....	.01	....	....	....	.58	.04	.81	....	.18	.16	....	....	5.43
Clifton Hill	Chariton	.02	.10	....	.45	....	....	....	....	....	....	.29	....	1.87	.22	.43	1.14	.01	.04	....	.03	....	....	....	.67	.80	.50	....	.35	....	....	....	6.92
Columbia[1, 5]	Missouri	.25	.10	.01	.18	....	....	....	....	....	....	.35	1.06	.63	.10	.84	.45	.02	T.	.03	.06	....	....	.01	.77	.88	T.	.48	.19	....	....	....	6.36
Columbia 9 mi. WNW	do	.01	.28	....	.18	....	....	....	....	....	....	.30	....	1.68	.42	.30	.52	T.	.03	T.	....	....	....	....	.42	.72	.18	....	.59	....	....	....	5.63
Conception	do	....	....	.33	.67	....	....	....	....	....	T.	1.04	....	.91	T.	.51	2.22	.06	....	....	.04	....	....	.09	.23	.43	.08	....	T.	....	....	....	6.61
Edgerton	do	....	....	....	1.02	....	....	....	....	....	....	.72	....	.37	1.34	....	1.28	....	....	....	....	.10	....	.29	.21	.84	.11	....	.12	....	....	....	6.40
Edina[2]	Mississippi	.50	....	.12	....	....	....	....	....	....	....	....	.30	.55	.13	.09	1.04	.22	.10	....	.03	....	....	....	.65	.11	.89	....	....	....	....	....	4.73
Elsberry	do	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Elsberry S. C. S.[2]	do	....	1.72	....	.09	T.	....	....	....	....	....	....	.09	1.25	1.04	.12	.33	T.	....	....	....	....	....	....	.28	.01	.62	....	.35	T.	....	....	5.93
Farber[2] 1 mile N	do	....	.55	.01	.11	....	....	....	....	....	....	....	.60	1.08	*	*	1.18	....	....	....	.06	....	....	....	.60	T.	.55	....	.23	.05	....	....	5.02
Fayette	Missouri	T.	.33	....	.39	....	....	....	....	....	....	.60	....	2.35	.05	.67	.95	....	....	T.	.03	....	....	....	.62	.52	.22	....	.35	....	....	....	7.08
Fulton[2]	do	....	.60	....	.23	....	....	....	....	....	....	....	.75	1.28	.29	.01	.63	T.	T.	....	.11	.12	....	....	.51	.02	.48	....	.48	.09	....	....	5.60
Gallatin[2]	Grand	....	T.	....	.63	....	....	....	....	....	....	.35	*	*	....	*	2.59	T.	T.	....	.14	....	....	T.	.45	.05	.91	....	.08	T.	....	....	5.21
Grant City	do	....	....	.32	.60	....	....	....	....	....	....	1.16	....	.60	....	.55	1.66	.04	....	....	....	....	....	.04	.17	.22	....	T.	T.	....	....	....	5.36
Hannibal[1] (A)	Mississippi	.25	.20	....	.09	....	....	....	....	....	....	.85	.56	.98	.48	.30	.21	.10	....	....	.11	....	....	.01	.60	.63	.04	....	.06	....	....	....	5.47
Hannibal[2] (B)	do	....	.46	T.	.10	....	....	....	....	....	....	....	.65	1.50	.35	.45	.40	.20	.25	....	....	.10	....	....	.45	.34	.80	....	.10	....	....	....	6.15
Hermann[2]	Missouri	....	1.20	.07	.10	....	....	....	....	....	....	....	.40	1.66	.60	.10	.08	.13	.03	....	.03	....	....	....	.30	.32	.35	....	.52	.07	....	....	5.96
Kahoka[2]	Mississippi	....	*	.30	.06	....	....	....	....	....	....	....	.75	.65	....	....	.94	....	....	....	.15	....	....	....	.87	.11	.80	....	....	....	....	....	4.63
Kansas City Airport[1, 5]	Missouri	....	.03	.96	.02	....	....	....	....	....	T.	.73	....	.21	.05	2.31	.07	.02	T.	....	.30	....	....	.51	.08	.98	....	.17	.19	....	....	....	6.63
Kansas City University	do	....	.02	T.	.86	T.	....	....	....	....	T.	.77	T.	.68	.06	1.56	.65	T.	T.	T.	....	.39	....	.36	.17	1.11	.07	....	.51	T.	....	....	7.21
Kidder[2]	Grand	....	.03	....	.69	....	....	....	....	....	....	.42	.27	.21	....	.27	2.10	T	T.	....	....	....	....	....	.73	.10	.83	....	.17	.03	....	....	5.85
King City	Missouri	....	....	.40	.49	....	....	....	....	....	....	.14	.64	....	....	.17	2.55	.01	....	....	....	....	....	.12	.30	....	....	....	.02	....	....	....	4.84
Kirksville	Mississippi	T.	.16	T.	.27	....	....	....	....	....	....	.39	....	.17	.02	.37	.96	.01	.10	....	.09	....	....	T.	.62	.43	.36	....	.04	....	....	....	3.99
Knoxvillle[3]	Missouri	.02	.04	.97	.03	....	....	....	....	....	....	.74	T.	.17	.05	1.68	.08	T.	....	....	T.	....	....	.35	.07	1.01	....	.10	.24	....	....	....	5.55
LaBelle[2]	Mississippi	....	.38	....	.23	....	....	....	....	....	....	....	.25	1.10	T.	.22	.90	.10	....	....	....	....	....	....	.65	.05	1.10	....	....	....	....	....	4.98
Lawson	Missouri	....	.01	....	.68	....	....	....	....	....	T.	1.06	T	.12	.06	1.40	.82	T.	....	....	T.	.03	....	.16	.14	1.08	.02	....	.34	....	....	....	5.92
Linneus[2]	Grand	....	....	....	.30	....	....	....	....	....	....	....	1.00	....	....	....	1.04	.04	....	....	....	....	....	....	.55	.83	....	....	....	.20	....	....	3.96
Louisiana[2] (A)	Mississippi	....	1.10	....	.20	....	....	....	....	....	....	....	.40	.85	.82	.10	.65	.40	....	....	....	....	....	T.	.70	.07	.65	.02	.28	....	....	....	6.24
Louisiana[2] (B)	do	....	1.10	.04	.14	....	....	....	....	....	....	....	.36	.68	1.04	.19	.24	.31	.03	....	....	.06	....	....	.18	.23	.62	....	.26	....	....	....	5.48
Lucerne[2]	Grand	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Macon[2]	Chariton	....	.10	....	.32	....	....	....	....	....	....	....	.26	1.21	.08	.06	1.51	.03	.09	....	....	.17	....	....	.63	.03	1.09	....	.05	.07	....	....	5.70
Madison[2]	Mississippi	....	.86	....	.20	....	....	....	....	....	....	....	.24	2.65	.50	.55	.98	....	....	....	....	.75	....	....	.65	*	.85	....	.23	.10	....	....	8.56
Martinsburg[2]	Missouri	....	.83	.16	....	....	....	....	....	....	....	....	.48	1.08	.43	.08	.50	....	....	....	.04	.01	....	....	.60	.09	.52	....	.44	.12	....	....	5.38
Maryville	do	....	....	.47	.80	....	....	....	....	....	T.	1.61	T.	.60	T.	.49	1.81	.05	....	....	....	....	....	.16	.05	.33	.05	T.	.09	....	....	....	6.51
Memphis[2]	Mississippi	....	.30	....	.30	....	....	....	....	....	....	....	.27	.32	....	....	1.05	T.	.06	....	T.	....	....	....	.69	.06	.67	....	....	....	....	....	3.72
Mexico[2]	do	....	.43	....	.14	....	....	....	....	....	....	....	.25	1.43	.36	.05	.90	T.	....	....	....	....	....	....	.60	.12	.66	....	.27	.09	....	....	§5.30
Milan[2]	Grand	....	....	....	.61	....	....	....	....	....	....	T.	.70	.17	.14	....	1.17	....	.13	....	....	....	....	....	.49	....	.68	....	....	.06	....	....	4.15
Moberly[2] 3½ mi. NE	Mississippi	....	.30	....	.34	....	....	....	....	....	....	....	.22	2.56	.17	.23	1.75	.04	....	....	T.	....	....	....	.57	.59	1.09	....	.21	.32	....	....	8.39
Monroe City	do	.26	....	....	.14	....	....	....	....	....	....	.16	.05	2.02	.07	.08	.60	....	.09	....	T.	....	....	....	.68	.46	.30	....	.06	....	....	....	4.97
New Florence[3, 5] 1 mi SE	Missouri	.53	.61	.07	.04	....	....	....	....	....	....	.55	.98	.65	.25	.26	.26	T.	T.	.01	.02	....	....	.01	.44	.48	....	.18	.21	....	....	....	5.55
Oregon	do	....	....	.82	.73	....	....	....	....	....	....	1.60	....	.52	.03	.42	1.60	....	....	....	....	....	....	.16	.10	.46	.04	....	.10	....	....	....	6.58
Palmyra	Mississippi	*	.13	....	.25	....	....	....	....	....	....	.21	....	1.70	.51	*	.70	....	....	....	....	....	....	....	*	.65	.82	....	T.	....	....	....	4.97
Paris[2]	do	....	.45	....	.14	T.	....	....	....	....	....	....	.25	2.08	.56	.07	.95	.05	.09	....	....	.07	....	....	.52	.05	.73	....	.30	.09	....	....	6.40
Perry 1 mile E	do	....	.30	....	.11	....	....	....	....	....	....	.55	....	1.75	.90	.35	.25	....	.05	....	....	.07	....	....	.76	....	.75	....	.35	....	....	....	6.19
Philadelphia[2]	do	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
St. Charles[2] (A)	Missouri	....	2.07	.06	.30	T.	....	....	....	....	....	....	.11	2.18	.68	.18	.47	.09	....	....	....	.07	....	T.	.10	.01	.27	....	.25	.06	....	....	6.90
St. Charles[2] (B)	do	....	1.87	.12	.26	T.	....	....	....	....	....	....	.12	1.99	.90	.19	.44	.20	....	....	.06	.01	....	.03	.08	.02	.33	....	.24	.05	....	....	6.91
St. Joseph[1, 5]	do	....	....	.75	.02	....	....	....	....	....	.45	.71	.17	.18	.04	2.73	.03	.01	....	....	....	....	....	.28	.07	.74	....	.12	.06	....	....	....	6.36
Saverton, Lock No. 22[2]	Mississippi	....	.87	.05	.05	T.	....	....	....	....	....	....	.62	1.74	.72	.15	.43	.08	.11	....	....	.08	....	....	.62	.19	.61	....	.07	....	....	....	6.39
Shelbina	do	.05	.38	....	T.	....	....	....	....	....	....	.54	T.	2.46	.05	.45	1.05	.03	.11	....	.03	....	....	....	.63	.65	.30	....	.04	....	....	....	6.77
Shelbyville[2]	do	....	.65	....	.33	....	....	....	....	....	....	....	.32	3.05	....	....	1.63	....	.18	....	....	....	....	....	.68	....	1.03	....	....	....	.05	....	7.92
Steffenville	do	.06	.25	....	.16	T.	....	....	....	....	....	.14	.07	1.32	.05	.35	.99	....	.08	....	.36	....	....	....	.78	.60	.48	....	T.	....	....	....	5.69
Tarkio[3]	Missouri	....	....	1.14	.04	....	....	....	....	....	.72	.38	.09	.28	.16	.87	.03	.02	....	T.	....	....	....	.32	....	.17	....	T.	T.	....	....	....	4.22
Trenton[2]	Grand	....	....	....	.54	....	....	....	....	....	....	.57	.28	.24	....	T.	1.93	.02	.09	....	....	....	....	....	.42	.08	.69	....	....	.09	....	....	4.95
Troy[2]	Mississippi	....	1.30	.05	.20	....	....	....	....	....	....	....	.10	1.60	.55	T.	.45	.22	....	....	.01	.03	....	T.	.22	.07	.50	....	.22	.06	....	....	5.58
Unionville[2]	Chariton	....	T.	....	.70	....	....	....	....	....	....	T.	.80	.28	.01	.06	1.35	.02	.20	....	.06	....	....	....	.30	.10	.36	....	....	....	....	....	4.24
Vandalia	Mississippi	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Warrenton	do	.12	1.44	....	.28	T.	....	....	....	....	....	.15	....	2.03	.47	.06	.47	T.	.03	.06	.02	....	....	....	.38	.04	.54	....	.46	....	....	....	6.55
Keokuk, Iowa[1]	do	.24	.07	.05	.02	....	....	....	....	....	....	.22	1.75	.35	.10	.48	.19	.05	....	T	T	....	....	.03	.60	.68	.05	....	....	....	....	....	4.88
Southwestern Divis																																	
Altona[2]	Osage	....	....	....	.34	....	....	....	....	....	....	....	.41	2.05	.21	.39	1.27	....	....	....	....	.80	....	....	1.13	....	.52	....	.53	.58	....	....	8.23
Anderson[2] 1½ mi. SW	Neosho	.15	.23	....	.43	....	....	....	....	....	....	....	.58	4.14	2.76	2.33	.96	....	....	....	.17	*	.48	....	.71	T	T.	T.	.16	....	....	....	13.10
Appleton City	Osage	....	.40	....	.40	....	....	....	....	....	....	.25	*	.64	.12	1.15	.60	....	....	.25	....	.44	....	*	.82	.38	....	*	.42	....	....	....	5.87
Ava Ranger Station[2]	White	.20	1.25	....	.20	....	....	....	....	....	....	.65	.50	....	2.65	1.80	.60	....	....	....	.20	.30	....	.35	.60	....	.10	....	.20	....	....	....	9.60
Bolivar	Osage	.04	1.04	....	.31	....	....	....	....	....	....	.28	.04	2.42	2.43	1.75	.43	....	....	.17	....	1.02	T.	....	.64	.03	.06	.03	.22	....	....	....	10.91
Boonville[2] (A)	Missouri	....	.27	....	.25	....	....	....	....	....	....	....	.25	1.90	.56	....	1.65	....	....	....	....	.15	....	....	.63	.03	.78	....	.47	.04	....	....	6.98
Boonville[2] (B)	do	....	.30	....	.23	....	....	....	....	....	....	....	.20	1.43	.50	.05	1.81	....	.02	....	....	.06	....	....	.42	.05	.70	....	.50	.09	....	....	6.36
Bradleyville[2]	White	.20	1.30	....	....	....	....	....	....	....	....	....	1.15	1.85	1.60	1.40	.59	....	....	....	....	.40	....	.30	.95	....	....	....	.30	T.	....	....	10.04
Buffalo[2]	Osage	....	1.20	....	.35	....	....	....	....	....	....	....	.25	.90	2.91	.90	1.36	....	....	....	.29	1.53	....	....	.45	.12	....	....	.30	....	....	....	10.56
Butler[2]	do	....	.02	....	.47	....	....	....	....	....	....	....	.53	1.97	.21	.89	1.15	T.	....	....	.24	1.10	....	....	.98	.01	.51	....	.46	....	....	....	8.54
Caplinger Mills[2]	do	....	.33	....	.36	....	....	....	....	....	....	....	.12	1.27	.68	.75	1.28	....	....	....	.25	.58	....	....	.19	T.	.36	....	.35	....	....	....	6.52
Carthage	Neosho	....	.15	....	.61	....	....	....	....	....	....	.60	....	2.15	.51	1.82	.78	....	....	.05	....	.92	....	....	.52	.05	....	.05	.22	....	....	....	8.43
Cassville[2]	White	.30	.83	....	.59	....	....	....	....	....	....	....	.25	.05	2.26	3.60	.52	....	....	....	....	....	.03	....	.50	....	....	....	.39	....	....	....	9.32
Clinton[3]	Osage	.14	.52	.06	....	....	....	....	....	....	.40	.78	.27	.10	1.18	.09	T.	....	.01	.30	....	....	.46	.35	.59	....	.43	.16	....	....	.68	....	6.52
Concordia	Missouri	....	.14	....	.26	....	....	....	....	....	....	*	.71	.80	1.29	1.09	1.49	T.	....	....	T.	.11	....	....	.79	*	.70	....	.42	T.	....	....	7.80
Crocker	Osage	.33	1.53	....	.24	....	....	....	....	....	....	.55	....	1.05	1.25	.58	.35	....	....	.42	.03	....	....	.07	.44	.08	.32	....	.29	....	....	....	7.53
Eldon	Missouri	.14	.52	....	.18	....	....	....	....	....	....	.20	.18	1.38	.45	.54	.51	....	....	.15	.02	....	....	....	.45	.51	....	....	.51	....	....	....	5.74
Eldorado Springs	Osage	....	.26	....	.33	....	....	....	....	....	....	.68	....	2.02	.50	1.20	.52	....	....	.25	....	....	....	T.	.43	.46	....	.18	.38	....	....	....	7.21
Elijah[2]	White	.12	1.29	....	.62	....	....	....	....	....	....	....	.59	1.20	1.62	2.10	.42	....	....	....	.78	1.00	.15	.25	.25	....	.24	....	.51	....	....	....	11.14
Fort Leonard Wood[2]	Gasconade	....	2.15	....	.47	T.	....	....	....	....	....	....	.53	1.66	2.53	.92	.38	....	....	....	.41	.02	....	.02	.28	.02	.05	....	.15	.03	....	....	9.62
Galena[2]	White	.21	2.34	.03	.73	....	....	....	....	....	....	....	.36	1.02	2.59	2.88	.50	....	....	....	.30	.52	.06	.16	.44	T.	.04	....	.25	....	....	....	12.43
Granby[2]	do	*	.33	....	.32	....	....	....	....	....	....	....	.40	5.10	1.15	2.78	.78	....	....	....	.22	.50	.02	....	.55	....	....	....	.25	....	....	....	12.40
Hailey	do	.57	T.	....	1.34	....	....	....	....	....	....	.45	....	....	2.82	3.23	.36	....	....	.32	.31	.14	....	....	....	.71	....	....	.31	....	....	....	10.56
Harrisonville[2]	Osage	....	.01	....	.66	....	....	....	....	....	....	.46	.26	.39	.84	.50	1.58	....	.07	....	....	.27	....	....	.65	....	.65	....	.47	.01	....	....	6.82
Jefferson City[2] (A)	Missouri	....	.98	....	.19	....	....	....	....	....	....	....	.90	1.00	1.01	.02	.83	....	....	....	.08	.09	....	....	.42	.06	.43	....	.45	.05	....	....	6.51
Jefferson City[2] (B)	do	....	.49	T.	.20	T.	....	....	....	....	....	....	.85	1.18	.67	T.	.81	T.	.02	T.	.08	T.	....	....	.41	.07	.41	T.	.41	.05	....	....	5.65
Joplin[1]	Neosho	....	.23	.34	....	....	....	....	....	....	....	....	2.10	.57	1.14	1.61	.24	....	.06	....	....	.65	....	.34	.14	.05	....	.30	.20	....	....	....	7.97

Continued on next page

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Stations	Drainage-basins	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	..	Total
Southwestern Division—Concluded																																	
Lakeside[2, 5]	Osage	....	.55	....	.27	T.	....	....	....	....	....	....	.67	1.32	.68	.07	.90	T.	....	....	.35	T.	....	....	.30	....	.29	....	.46	.05	....	....	5.91
Lamar[2]	Neosho	....	.30	....	.40	....	....	....	....	....	....	....	.34	1.82	.74	1.03	1.95	....	....	....	....	1.55	....	....	.42	....	.23	....	.29	....	....	....	9.07
Lebanon	Osage	.35	1.39	....	.43	....	....	....	....	....	....	.46	....	1.97	1.15	1.29	.49	....	....	.25	....	.42	....	.04	.34	T.	.46	....	.19	....	....	....	9.23
Lexington[2]	Missouri	....	.10	....	.57	....	....	....	....	....	....	.42	.88	.70	.10	...	1.78	....	....	....	....	.25	....	....	.70	.04	....	....	.25	.20	....	....	§5.99
Lockwood	Osage	.37	....	....	.40	....	....	....	....	....	....	.25	.05	3.40	.98	.94	.32	....	T.	.04	....	1.02	....	....	.60	.05	....	.04	.06	....	....	....	8.52
Mansfield[2]	White	.10	1.20	....	.30	....	....	....	....	....	....	....	.86	1.38	2.92	1.68	.59	....	....	....	.24	1.20	.01	.08	.62	....	.06	....	.13	....	....	....	§11.37
Marshall	Missouri	T.	....	....	.45	....	....	....	....	....	....	.35	....	1.13	.40	.51	.43	....	....	T.	....	.35	....	....	.91	.33	.50	....	.30	....	....	....	§5.66
Marshfield[2]	White	.14	2.93	....	.43	....	....	....	....	....	....	....	.56	2.63	1.19	1.50	.78	.05	....	....	.07	1.24	....	.02	.43	....	.04	....	.16	.01	....	....	12.18
Mountain Grove[2]	Gasconade	.05	1.30	T.	.36	....	....	....	....	....	....	....	.31	.57	3.58	1.37	.55	T.	....	T.	.31	1.05	T.	.03	.41	....	.21	....	.17	....	....	....	10.27
Mount Vernon[2]	Neosho	.15	.39	....	.48	....	....	1.33	....	....	....	....	.28	3.46	1.33	2.25	.59	....	....	.17	....	1.03	....	....	.59	.03	....	....	.25	....	....	....	12.33
Neosho	do	.06	.33	....	.47	....	....	....	....	....	....	.70	....	5.19	1.30	2.30	.62	....	.04	.39	....	.35	.31	....	.47	T.	....	.02	.13	....	....	....	12.68
Nevada	Osage	....	....	....	.41	....	....	....	....	....	....	.48	T.	.23	.31	1.75	.51	....	....	.27	....	1.40	....	.18	.66	.33	....	.21	.26	....	....	....	7.00
Osceola[2]	do	....	.10	....	.35	....	....	....	....	....	....	....	.30	.89	1.29	.40	1.13	T.	....	....	.16	.35	....	....	.89	T.	.58	....	.52	.08	....	....	7.04
Ozark[2]	White	....	2.30	T.	.66	....	....	....	....	....	....	....	.68	2.52	1.90	1.77	.41	....	....	....	.31	.98	.02	.18	.52	.03	....	T.	....	....	....	....	12.28
Ozark Beach[2]	do	.37	4.57	....	.26	....	....	....	....	....	....	....	.38	.89	1.90	3.15	.36	....	....	....	.32	.25	....	.19	.74	....	.09	....	.35	....	....	....	13.82
Pierce City[2]	Neosho	....	.55	....	.45	....	....	....	....	....	....	....	.38	4.27	1.69	2.40	.56	T.	....	.15	....	.97	....	....	.47	....	....	....	.46	....	....	....	12.35
Pineview Lookout	White	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Pleasant Hill[2]	Osage	....	.01	....	.77	T.	....	....	....	....	....	.55	.66	.53	.34	.18	1.66	T.	.08	....	T.	.37	....	....	.56	T.	.72	....	.62	.03	....	....	7.08
Roby	Gasconade	.46	1.16	....	.38	....	....	....	....	....	....	.41	....	4.80	2.43	.80	.36	....	....	.22	T	.42	T.	.03	.29	.16	T.	T.	.14	....	....	....	12.06
St. Thomas[2]. 2¼mi SW	Osage	....	.97	....	.24	....	....	....	....	....	....	....	.75	1.70	.74	....	.69	....	....	....	.35	....	....	....	*	*	.68	....	.50	....	....	....	§6.62
Saunders Lookout[2]	White	.19	2.68	....	.52	....	....	....	....	....	....	....	.56	.60	2.65	1.44	.50	....	....	.25	.50	....	....	.15	.51	....	.10	....	.15	....	....	....	10.80
Sedalia	Missouri	*	.11	....	.50	....	....	....	....	....	....	.27	....	2.44	.06	*	1.58	....	.05	.02	....	.13	....	....	.92	*	.78	....	.78	....	....	....	7.64
Seligman	Neosho	.52	....	....	.62	....	....	....	....	....	....	.45	....	....	2.84	2.54	.32	....	....	.64	....	.36	....	.22	.48	.09	....	....	.40	....	....	....	9.48
Seymour[2]....3½ mi. NE	White	.14	1.13	....	.63	....	....	....	....	....	....	....	.45	2.24	2.06	2.18	.54	....	....	....	.36	1.25	.11	.07	.52	.05	....	.05	.24	....	....	....	12.02
Shell Knob[2]...3 mi. SE	do	.56	1.49	....	.46	....	....	....	....	....	....	....	.35	.47	3.65	2.91	.43	....	....	....	.38	.32	....	.07	.51	....	.30	....	.21	....	....	....	12.11
Siloam Sprgs Lookout[2]	do	.23	.90	....	....	....	....	....	....	....	....	....	.55	.90	2.90	2.30	.39	....	....	....	1.20	.70	....	....	.31	....	....	....	....	....	....	....	10.38
Springfield[1, 5]...½ mi. E	do	.83	1.37	.40	.14	....	....	....	....	....	....	.46	2.31	1.00	1.65	1.26	.37	....	.01	.25	....	1.13	.04	.28	.28	.23	T.	.12	.02	....	....	....	12.15
Stover[2]	Missouri	....	.38	....	.18	....	....	....	....	....	....	....	.10	1.62	.15	.24	1.15	....	....	....	....	....	....	....	.65	....	.75	....	.37	.05	....	....	5.64
Swan Tower Lookout[2]	White	.20	1.30	....	.35	....	....	....	....	....	....	....	.65	.65	2.20	1.80	.70	....	....	....	.24	.44	.10	.25	.75	....	.13	....	.15	T.	....	....	9.91
Sweet Springs	Missouri	T.	.26	....	.28	....	....	....	....	....	....	.44	.18	.46	.53	.55	.42	....	.02	.03	....	.15	....	T.	.88	.44	.26	....	.43	....	....	....	5.33
Tecumseh[2]. . .¼ mi. W	White	.14	1.18	....	.23	....	....	....	....	....	....	....	.63	.31	2.00	2.92	.38	T.	....	....	.53	.53	.07	.30	.22	....	.17	....	.45	....	....	....	10.06
Topaz[2]	do	....	1.10	....	.14	....	....	....	....	....	....	....	.55	.70	1.93	2.00	.50	....	....	....	.41	.67	....	.33	.25	....	.38	....	*	.19	....	....	9.15
Vanzant[2]....3¾ mi. SE	do	.07	1.25	....	.13	....	....	....	....	....	....	....	.45	.71	2.05	2.55	.50	....	....	....	.35	.78	.10	.21	.35	....	.38	....	.25	....	....	....	10.13
Warrensburg	Missouri	....	.11	....	.30	....	....	....	....	....	....	.44	.03	.87	.01	.66	.49	....	*	.05	....	.10	....	.03	.95	.39	.26	....	.56	....	....	....	5.25
Warsaw[2].........(A)	Osage	T.	.24	....	.31	....	....	....	....	....	....	....	.18	1.01	.55	.19	1.91	T.	....	....	.27	.09	....	....	.87	.03	.54	....	.48	.09	....	....	6.76
Warsaw[2].........(B)	do	....	.18	.09	.36	....	....	....	....	....	....	....	.25	.64	.75	.28	1.42	.30	....	....	.23	.04	....	....	.04	.71	.56	....	.56	....	....	....	6.41
Wasola[2]	White	.19	1.38	....	.14	....	....	....	....	....	....	....	.72	.48	2.21	3.10	.44	....	....	....	.37	....	....	.20	.49	....	.31	....	*	.25	....	....	10.28
Waverly[2]	Missouri	....	.10	....	.15	....	....	....	....	....	....	....	.63	.42	....	.33	1.05	....	....	....	....	.54	....	....	.60	T.	.73	....	.21	T.	....	....	4.76
Wilderness Lookout[2]	White	.38	2.27	....	.53	....	....	....	....	....	....	....	.32	.67	2.24	3.69	.43	....	....	....	.64	.49	.26	*	.64	*	.17	....	.35	....	....	....	13.08
Southeastern Division																																	
Advance[3].....¼ mile W	St. Francis	1.91	T.	....	.40	....	....	....	....	....	....	.29	.24	.27	1.42	1.65	.48	....	....	.19	.01	.18	.01	.23	.06	.36	....	.03	.11	....	....	....	7.84
Alton(1)....10 miles SE	Black	1.16	.84	....	.19	....	....	....	....	....	....	.21	.30	.10	1.91	1.59	.64	....	....	.06	.42	.16	.08	.04	.27	....	.51	.08	.30	....	....	....	8.86
Alton(2)[2] ...7 miles NE	do	.10	1.63	T.	.10	....	....	....	....	....	....	....	.30	.20	1.02	1.98	.60	.08	....	....	.58	.28	....	....	....	....	.30	....	.37	....	....	....	7.54
Annapolis[2].....7 mi. W	do	.09	1.46	.01	.67	....	....	....	....	....	....	....	.08	2.62	1.12	1.69	.50	.02	....	....	.18	.28	....	.13	.08	....	.37	....	.24	....	....	....	9.54
Arcadia[2]	St. Francis	....	1.80	....	.50	....	....	....	....	....	....	....	.08	2.20	3.80	1.36	.57	....	....	....	.32	....	....	.18	.15	.30	.61	....	.15	....	....	....	12.02
Belleview[2]	Meramec	....	1.10	....	.56	....	....	....	....	....	....	....	.11	1.53	2.56	.93	.31	.13	....	....	.35	....	....	.13	.08	.05	.54	....	.14	....	....	....	8.52
Bernie[2]	St. Francis	.34	2.80	....	1.03	....	....	....	....	....	....	....	.43	1.30	1.24	2.86	.23	.95	....	....	.35	T.	T.	.19	....	....	.31	.31	....	.14	....	....	12.48
Birch Tree[2] ...½ mile E	Black	.12	1.27	....	.30	....	....	....	....	....	....	....	.24	1.94	1.65	1.47	.50	....	....	....	.36	.42	....	....	.17	.08	.37	....	.38	....	....	....	9.27
Black...... 9 miles NW	do	.50	.95	....	.56	....	....	....	....	....	....	.19	.02	3.24	2.30	.81	.98	....	....	.42	.43	....	....	.22	.24	*	.38	....	.16	....	....	....	11.40
Bloomfield[2]	St. Francis	.26	2.06	....	1.59	.04	....	....	....	....	....	....	.32	.24	.92	2.16	.13	.66	....	....	.18	.09	....	.01	....	....	.12	....	.11	....	....	....	8.89
Bunker[2]... 4 miles NW	Black	....	1.15	.03	.58	....	....	....	....	....	....	....	.28	1.96	2.33	1.62	.54	.04	....	....	.26	.39	....	.28	.19	....	....	....	.16	....	....	....	9.81
Campbell	St. Francis	1.08	1.94	....	.44	....	....	....	....	....	....	....	.99	....	1.42	1.82	.65	....	....	....	.61	T.	....	.07	....	....	.27	....	.24	....	....	....	9.53
Cape Girardeau[2]	Mississippi	.08	2.05	....	.64	....	....	....	....	....	....	....	.10	1.55	1.50	1.60	.10	.90	....	....	.36	.03	....	.30	.02	....	.29	....	.11	....	....	....	9.63
Caruthersville[2]	do	.20	1.87	T.	.58	T.	....	....	....	....	....	....	.75	....	1.11	.10	....	.70	....	....	.48	....	....	T.	.41	....	.21	....	.34	T.	....	....	6.75
Centerville(1)[2]	Black	.11	1.24	....	.45	....	....	....	....	....	....	....	.19	2.08	2.75	1.24	.54	....	....	....	.29	.46	....	.14	.20	.08	.57	....	.14	....	....	....	10.48
Centerville(2)[2]	do	.06	1.43	....	.45	....	....	....	....	....	....	....	.20	2.08	1.96	1.35	.49	.06	....	....	.26	.25	....	.13	.18	.21	.62	....	.16	....	....	....	9.89
Cook Station[2]	Meramec	....	2.25	....	.16	....	....	....	....	....	....	....	.40	3.75	3.85	.65	.35	....	....	....	.55	....	....	.01	.20	....	.10	....	.16	....	....	....	12.43
Crane Mountain[2]	St. Francis	.11	1.62	....	.87	....	....	....	....	....	....	....	.05	3.87	2.20	1.54	.32	....	....	....	.37	.24	....	.18	.10	.19	.54	....	.14	....	....	....	12.34
Crystal City	Mississippi	1.04	.25	....	.25	T.	....	....	....	....	....	T.	....	2.12	1.83	.15	.44	....	....	*	.14	....	....	.27	.10	....	.28	....	.23	....	....	....	7.10
Cuba	Meramec	.30	1.67	....	.30	....	....	....	....	....	....	.12	....	1.60	1.68	.28	.33	....	....	.50	.07	....	....	.16	.14	....	.10	....	.19	....	....	....	7.44
Deering[2]	St. Francis	.24	2.19	....	.32	T.	....	....	....	....	....	....	.28	T.	1.80	.90	.27	.42	....	....	.58	....	....	T.	.98	T.	.33	....	.33	....	....	....	8.64
De Soto[2]	Mississippi	....	1.29	....	.38	....	....	....	....	....	....	....	.04	1.63	1.84	.25	.48	.01	....	....	.18	....	....	.22	.09	.01	.22	....	.20	....	....	....	6.84
Dexter[2]	St. Francis	.28	2.26	....	1.29	.04	....	....	....	....	....	....	.34	.29	.88	2.73	.12	.74	....	....	.26	.10	.09	.07	.04	....	.03	....	.13	.03	....	....	9.72
Doniphan(1)	Black	.88	.19	T.	.59	....	....	....	....	....	....	.69	1.50	....	1.50	2.20	.54	....	....	T.	.59	.04	T	.11	.49	T.	.31	.10	.30	....	....	....	10.03
Doniphan(2)[2]	do	.22	1.15	....	.54	....	....	....	....	....	....	....	.95	.54	1.70	2.80	.30	.13	....	....	.61	.04	T.	.05	.65	.03	.35	....	.34	....	....	....	10.40
East End[2]	Meramec	....	1.70	....	.52	....	....	....	....	....	....	....	.14	2.33	2.32	.89	.84	.05	....	....	.43	....	....	.12	.15	.05	.45	....	....	....	....	....	9.99
Eastwood Lookout[2]	Black	.28	1.56	....	.15	....	....	....	....	....	....	....	.29	.21	1.80	2.15	.45	....	....	....	.33	.23	....	.05	.13	.43	.34	....	.31	....	....	....	8.71
Ellington[2]	do	.09	1.47	....	.80	....	....	....	....	....	....	....	.10	2.00	1.98	1.50	.46	.04	....	....	.20	.21	T.	.08	.10	....	.56	....	.25	....	....	....	9.84
Ellsinore Lookout[2]	do	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Farmington[2]	St. Francis	T.	1.07	.01	.25	T	....	....	....	....	....	....	.04	1.53	2.65	.71	.23	.22	....	....	.35	....	....	.10	.18	.07	.50	....	.08	.02	....	....	8.01
Fisk[2]	do	.07	1.71	T.	1.09	....	....	....	....	....	....	....	.43	.16	T.	2.04	.13	.11	....	....	.30	.22	.04	.06	T.	T.	.17	....	.01	.02	....	....	6.56
Fredericktown[2]	do	.03	.78	....	1.22	....	....	....	....	....	....	....	T.	2.46	4.38	1.26	.12	.24	....	....	.26	....	....	.20	.04	.02	.45	....	....	....	....	....	11.46
Gerald[2]	Meramec	....	1.63	....	.20	....	....	....	....	....	....	....	.33	1.20	.87	.08	.42	....	....	....	.16	....	....	T.	.34	T.	.26	....	.40	....	....	....	5.89
Greenville(1)	St. Francis	.63	.66	....	....	....	....	....	....	....	....	.07	.57	.16	1.63	1.59	.42	....	....	....	.19	.18	....	.04	.10	.37	.50	....	.33	....	....	....	7.44
Greenville[2](2)	do	.12	1.10	....	.20	....	....	....	....	....	....	....	.27	.62	1.23	2.25	.41	.07	....	....	.25	.17	....	.04	.07	.61	.59	....	.28	....	....	....	8.28
High Lookout[2]	Black	.17	1.09	.01	.81	....	....	....	....	....	....	....	.15	1.14	2.19	1.62	.53	....	....	....	.30	.32	....	.06	.15	....	.52	....	.39	....	....	....	9.48
Jackson‡	Mississippi	.83	1.10	....	.10	....	....	....	....	....	....	....	.46	1.38	2.10	1.39	.61	....	....	.09	....	....	....	.14	.02	.05	.75	....	.17	....	....	....	9.19
Jefferson Barracks[2]	Mississippi	.56	.74	....	.18	....	....	....	....	....	....	....	.02	1.72	.92	*	.65	.02	....	....	T	....	....	.11	.12	....	.22	....	.20	....	....	....	5.46
Jerome[2]	Gasconade	....	1.78	....	.44	....	....	....	....	....	....	....	.44	1.04	1.54	.38	.66	....	....	....	.44	....	....	.08	.56	....	.14	....	.14	....	....	....	7.64
Koshkonong[2]	Black	.18	.86	....	.41	....	....	....	....	....	....	....	.24	.46	1.32	3.36	.41	....	....	....	.58	.35	....	.16	.46	.05	.27	....	.42	....	....	....	9.53
Leeper[2]	do	.13	.74	.01	.27	....	....	....	....	....	....	....	.21	.19	1.32	2.15	.40	.12	....	....	....	.31	....	.34	.04	.14	.37	....	.36	.01	....	....	7.11
Licking[2]..... 4 miles N	Gasconade	....	1.05	....	.20	....	....	....	....	....	....	....	.50	.31	3.10	.38	.52	.38	....	....	....	.16	....	....	.31	....	.42	....	.13	....	....	....	7.46
Macedonia Lookout[2]	Black	*	1.73	....	*	.15	....	....	....	....	....	....	.68	.44	3.35	....	.44	....	....	....	.35	.14	.04	....	....	....	.85	*	.20	....	....	....	8.37
Malden[3]...4 miles NNW	Mississippi	2.86	....	T.	.57	....	....	....	....	....	....	.21	.71	T.	1.74	1.92	.58	....	....	.31	T.	T.	T.	.07	T.	.06	....	T.	.24	....	....	....	9.27
Marble Hill	do	.74	1.44	....	.18	....	....	....	....	....	....	.60	.31	.44	1.68	1.40	.39	....	....	.42	.34	.31	.12	.20	.24	.57	.39	.46	.19	.08	....	....	10.50
Meramec Park[2]	Meramec	....	.82	....	.32	....	....	....	....	....	....	....	T.	2.00	1.52	.22	.50	T.	....	....	.20	....	....	.18	.15	.03	.06	....	.17	.09	....	....	6.26
Morehouse	Mississippi	.88	1.61	....	.47	....	....	....	....	....	....	....	1.04	.08	1.78	1.91	.66	....	....	....	.14	.16	....	.05	....	....	.08	....	....	....	....	....	8.86
Moselle[2]	Meramec	....	1.83	.11	.40	....	....	....	....	....	....	....	.10	1.65	1.12	.12	.42	....	.38	....	.17	....	....	....	....	....	....	....	*	.14	.27	....	6.71
New Madrid[2]	Mississippi	.15	2.00	....	.25	....	....	....	....	....	....	....	.35	....	1.46	1.96	.42	.62	....	....	.25	....	....	T.	.15	....	.32	....	.22	T.	....	....	8.15
Oates Tower[2]	Black	....	.50	.67	.35	....	....	....	....	....	....	....	.20	2.34	2.50	1.10	....	....	....	....	.35	.10	....	.16	.20	....	.65	....	.18	....	....	....	9.30
Owensville[2]	Gasconade	....	2.00	....	.30	....	....	....	....	....	....	....	.21	1.32	.90	*	.45	....	....	....	.16	....	....	....	.31	*	.45	....	*	.38	....	....	6.51
Pacific[2]	Meramec	....	2.05	....	.30	....	....	....	....	....	....	....	.09	1.90	1.05	.10	.29	.20	....	....	.06	....	....	....	.11	.02	.14	....	*	.35	....	....	§6.66
Parma[2]	St. Francis	T.	2.40	....	.30	....	....	....	....	....	....	....	.35	.75	1.05	3.00	.03	.72	....	....	.28	....	....	.05	....	....	.25	....	.26	....	....	....	9.44
Perryville	Mississippi	.35	.87	.37	....	....	....	....	....	....	....	....	....	1.86	4.21	1.29	1.57	....	....	.31	....	....	....	.15	.08	....	.15	....	.07	....	....	....	11.28
Pilot Knob[2]... 2 mi. NE	St. Francis	.10	....	....	.38	....	....	....	....	....	....	....	.45	.95	2.61	.45	.77	....	....	....	.30	....	....	.15	....	.03	....	.40	.12	....	....	....	6.71
Poplar Bluff[2]....(A)	Black	.06	....	....	.90	....	....	....	....	....	....	....	....	.71	.36	.45	.84	2.45	.36	....	....	.35	.10	.04	....	....	....	.50	....	.20	....	....	7.32
Poplar Bluff[2]....(B)	do	.22	.97	....	.83	....	....	....	....	....	....	....	.60	.40	.90	2.43	.35	.07	....	....	.23	.15	....	.03	.02	....	.48	....	.16	.05	....	....	7.89
Puxico[2]	St. Francis	T.	1.46	T.	.33	T.	....	....	....	....	....	....	.42	.41	1.12	1.67	.17	.39	....	....	.24	.17	T.	.09	.04	.04	.41	....	.10	....	....	....	7.06
Qulin[2]	do	.20	2.54	....	.93	....	....	....	....	....	....	....	.28	.44	.96	2.64	.50	.23	....	....	.50	....	....	.07	.18	....	.13	....	.22	....	....	....	9.82
Reynolds[2]	Black	.15	.85	....	.27	....	....	....	....	....	....	....	....	1.78	2.47	1.32	.88	....	....	....	.24	.28	....	.24	.19	....	.29	....	.16	....	....	....	9.12
Richwoods[2]	Meramec	....	2.20	T.	.20	....	....	....	....	....	....	....	....	2.65	1.30	.22	.16	....	....	....	.21	....	....	.12	.21	.03	....	....	*	.32	....	....	§7.62
Rolla[2]	do	....	2.15	....	.30	T.	....	....	....	....	....	....	.30	1.15	1.20	.42	.34	T.	....	....	.50	T.	....	.07	.18	....	.05	....	.12	....	....	....	6.78

Continued on next page

Daily Precipitation for April 1945–Continued from preceding page

Stations	Drainage-basins	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	..	Total
Southeastern Division –	*Concluded*																																
Round Spring²	Black	....	1.79	....	.18	....	....	....	....	....	....	....	1.80	1.29	2.90	1.30	.28	....	....	....	.21	.22	....	.10	.22	.57	....	....	.16	....	....	....	11.02
St. Louis:																																	
City Office¹,⁵	Mississippi	.56	.41	T.	.20	....	....	....	....	....	....	.05	1.28	.71	1.01	.02	.35	T.	T.	.02	.04	....	....	.06	.14	.25	T.	.14	.16	....	....	....	5.40
Airport³,⁵	Missouri	.51	.68	.09	.41	....	....	....	....	....	....	.06	1.19	1.09	.78	.07	.50	T.	T.	.06	.02	....	....	T.	.16	.21	.03	.05	.27	....	....	....	6.18
St. Louis Univ.¹,⁵	Mississippi	.83	.32	.01	.22	....	....	....	....	....	....	.08	.91	1.22	1.03	.02	.42	....	....	.03	.12	....	....	.07	.15	.30	.01	....	.26	....	....	....	6.00
Washington Univ.²	....do	....	1.02	....	.20	.01	....	....	....	....	....	....	.10	2.30	1.08	.12	.65	....	....	....	.03	.08	....	.07	.15	....	.38	....	.31	.07	....	....	6.57
Salem	Meramec	.19	.40	....	.44	....	....	....	....	....	....	.32	....	3.27	2.69	.66	.39	....	....	.39	.11	....	....	.05	.27	....	.40	....	.16	....	....	....	9.74
Sikeston²	Mississippi	.21	1.19	T.	.35	.04	....	....	....	....	....	....	.38	.39	1.51	2.70	.08	.70	....	....	.14	.33	....	.07	T.	....	.06	....	.06	T.	....	....	8.21
Steelville² ...2½ mi. NE	Meramec	....	1.74	....	.24	T.	T.	T.	T.	....	....	....	.01	2.76	1.40	.63	.49	....	....	....	.50	....	....	.01	.15	....	.21	....	.14	....	....	....	8.28
Summersville	Black	.61	.48	....	.09	....	....	....	....	....	....	....	.28	.74	2.22	1.64	.34	....	....	....	.35	.60	T.	....	.33	T.	.58	....	.20	....	....	....	8.46
Union ....1½ mi. SE	Meramec	.20	1.00	....	.28	....	....	....	....	....	....	.11	.10	1.52	1.07	.04	.29	....	....	*	.07	....	....	.01	.11	.02	.16	.29	.09	....	....	....	5.36
Valley Park²	....do	....	1.27	T.	.18	....	....	....	....	....	....	....	.09	2.00	1.01	.05	.28	.17	....	....	T.	....	T.	.10	.09	T.	.18	....	.22	.05	....	....	5.69
Van Buren²	Black	.20	1.50	....	.27	....	....	....	....	....	....	....	.15	.18	1.26	1.65	.48	....	....	....	.34	.30	....	.10	.10	....	.30	....	.29	T.	....	....	7.12
Vichy³ .....2 miles NW	Meramec	.88	1.11	.04	.30	....	....	....	....	....	....	.63	.99	.95	.39	.44	.24	....	....	.34	.05	T.	....	T.	.30	.46	....	.22	.14	....	....	....	7.48
Wappapello Dam²	St. Francis	.18	.88	....	.21	T.	....	....	....	....	....	....	.53	.33	.94	1.89	.32	.04	....	....	.22	.09	....	.06	.16	.42	.26	....	.12	....	....	....	6.65
Weingarten	Mississippi	.15	*	1.95	.25	....	....	....	....	....	....	....	....	1.55	2.75	1.00	.55	....	....	*	.05	....	....	.20	.20	....	....	....	....	....	....	....	8.65
West Plains³	Black	1.38	.01	.13	.12	....	....	....	....	....	....	.27	1.16	.01	2.20	1.77	.38	....	T.	.50	....	.53	.23	.01	.25	.21	....	.32	.12	....	....	....	9.60
Williamsville²	....do	.92	1.21	....	.10	....	....	....	....	....	....	....	.63	.56	1.15	2.20	.65	.09	....	....	.36	....	....	....	.48	.66	.03	....	.38	.04	....	....	9.46
Willow Springs² 500 ft E	White	.84	1.30	.24	....	....	....	....	....	....	....	....	.40	1.33	2.00	2.00	.35	....	T.	....	.35	.33	....	.05	.31	....	.61	....	.25	....	....	....	10.86
Winona Ranger Sta.²	Black	....	1.26	....	.83	....	....	....	....	....	....	....	.20	1.78	2.00	1.57	.74	....	....	....	.43	.34	....	.03	.15	T.	.41	....	.47	....	....	....	10.21
Zalma²	Mississippi	.10	1.60	....	.05	....	....	....	....	....	....	....	.31	.41	1.21	1.64	.46	.10	....	....	.17	.15	....	.10	....	.28	.50	....	.19	....	T	....	7.27
Cairo, Ill.¹,⁵	....do	2.01	T.	....	.16	....	....	....	....	....	....	....	1.14	.02	1.73	2.10	.65	....	....	.14	.03	.08	.01	.04	T.	.11	....	....	.05	....	....	....	8.27

Except as otherwise indicated, amounts are for 24 hours ending late in afternoon. ¹ Midnight to midnight. ² Measured in the morning; for the preceding 24 hours. ³ Data for 24 hours ending 12:30 A. M. (C. S. T.) of following day. ⁵ Recording gage. T. Trace or 0.005 inch or less. * Included in next measurement. // Windshield on gage. Italics data interpolated. § Partly interpolated. (A) Record from cooperative station gage. (B) Record from river station gage. ‡ Received too late to be included in means and extremes.

Daily Evaporation (inches), Mean Temperature (F°), and Wind Movement (miles) for April 1945

(See precipitation data in daily precipitation table)

Station	Data	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	..	Monthly
Columbia (Univ. of Mo. Hort. Exp. Sta. 9 mi. WNW.)	Evaporation	.034	.102	.090	.172	.099	.238	.239	.284	.349	.298	.238	.114	.286	.108	.011	289	.121	.090	.200	.118	.199	.243	079	.088	.091	.102	.157	.073	.129	.192	....	4.833
	Mean temperature	58	53	60	52	38	48	54	60	66	68	66	62	66	57	48	54	48	48	44	60	62	59	60	54	45	48	51	52	52	52	..	54.8
	Wind movement	61	165	78	205	114	149	152	159	243	265	150	65	116	160	121	303	199	104	92	64	56	88	7	111	63	123	29	50	39	35	..	3,566
Lakeside (Osage Dam)	Evaporation	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.....
	Mean temperature	54	52	64	37	44	48	54	60	68	70	68	66	64	56	59	56	52	50	48	60	60	60	62	49	48	52	54	48	54	56	..	55.8
	Wind movement	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
St. Louis (Washington University)	Evaporation	.132	.024	.057	.122	.099	.122	.175	.196	.204	.200	.228	.107	.241	.100	.058	.027	.191	.104	.175	.085	.154	.172	.107	.061	.082	.058	.077	.151	.047	.181	....	3.737
	Mean temperature	56	58	62	42	42	48	58	62	65	68	70	68	66	52	58	58	50	50	50	63	62	58	60	56	49	52	52	50	54	56	..	56.4
	Wind movement	37	46	45	71	69	38	65	54	63	74	63	50	50	27	63	44	96	33	43	47	30	51	34	24	55	66	33	50	49	54	..	1,524

Observations taken at 8:00 a. m. except at 7:30 a. m. at Lakeside. For Lakeside and St. Louis (Washington University) descriptions see April 1932 and August 1938 reports, respectively. * Included in next measurement.

(Continued from page 27)

estimated at one-quarter of a million dollars. The tornado path at Morrisville was 300 yards wide and about three-fourths of a mile in length and extended in a northeasterly direction.

Still another tornado, or probably two separate ones, struck about three miles south of Bradleyville, Taney County, and at Ava, Douglas County, extending northeastward into Wright County, at about 9 p. m. (C. W. T.). It is possible, and highly probable, that this storm, or storms, originated in Arkansas. Near Bradleyville, two persons were reported injured, while at Ava, ten or twelve persons were injured. The path of this storm varied from 100 yards to one-half mile in width and was about thirty-two miles in length, but the tornado was not in contact with the ground throughout its entire length, alternately lifting and descending along the path. Buildings and fences were reported damaged, but amount of damage was not given.

The last of this series of tornadoes of the 12th, in Missouri, struck at Palmyra, Marion County, at 10 p. m. (C. W. T.), and crossed the Mississippi River into Illinois. At Palmyra there were no fatalities, but eleven persons were injured and property damaged was estimated at between $200,000 and $300,000. The path of this tornado was four or five blocks wide and approximately one-half mile long, extending in a southwesterly to northeasterly direction. Soon after striking Palmyra the tornado apparently lifted and did not strike again until it reached Quincy, Illinois, about ten miles northeast of Palmyra.

WINDSTORMS

A minor windstorm was reported at Browning on the 9th, with only slight damage.

On the 12th a windstorm struck Jefferson City, damaging wires, trees, roofs and porches, estimated at "thousands of dollars". The storm came from the southwest, with path one-half mile wide and of unknown length. One person was reported injured.

On the 13th, between 7 and 8 p. m. (C. W. T.), a windstorm accompanied by heavy rain and hail, struck the vicinity of Sturgeon, Boone County, damaging outbuildings and flooding streams, cellars, and basements. No details of this storm, or amount of damage was available, but apparently damage was slight.

On the 16th, damaging windstorms occurred at several places in the State. At Browning slight wind damage occurred. At Bolivar, roofs, that had been damaged previously on the 13th by hail, suffered additional damage from a high southwest wind on the 16th, but amount of additional damage not reported. At Columbia many trees were blown down, limbs broken off, and power and communication lines were broken and service disrupted in various sections of the city. Damage was mostly of a minor nature. At St. Louis and in St. Louis County high winds, with gusts up to 60 m. p. h., damaged or felled numerous trees, blew out the walls of four buildings, broke plate glass windows, damaged roofs, cornices, automobiles, signs, billboards, smokestacks, and slightly injured two persons. Damage was estimated at several thousand dollars, most of which occurred in the city.

A windstorm on the 25th struck the southern half of Shannon County, resulting in damage to houses, barns and trees at Birch Tree, Winona, and Low Wassie. The storm came from the southwest, with path three miles wide and twenty miles long. No amount of damage reported.

DEATH FROM LIGHTNING

On the 12th a boy was reported struck and killed by lightning at Everton, Dade County, Mo.

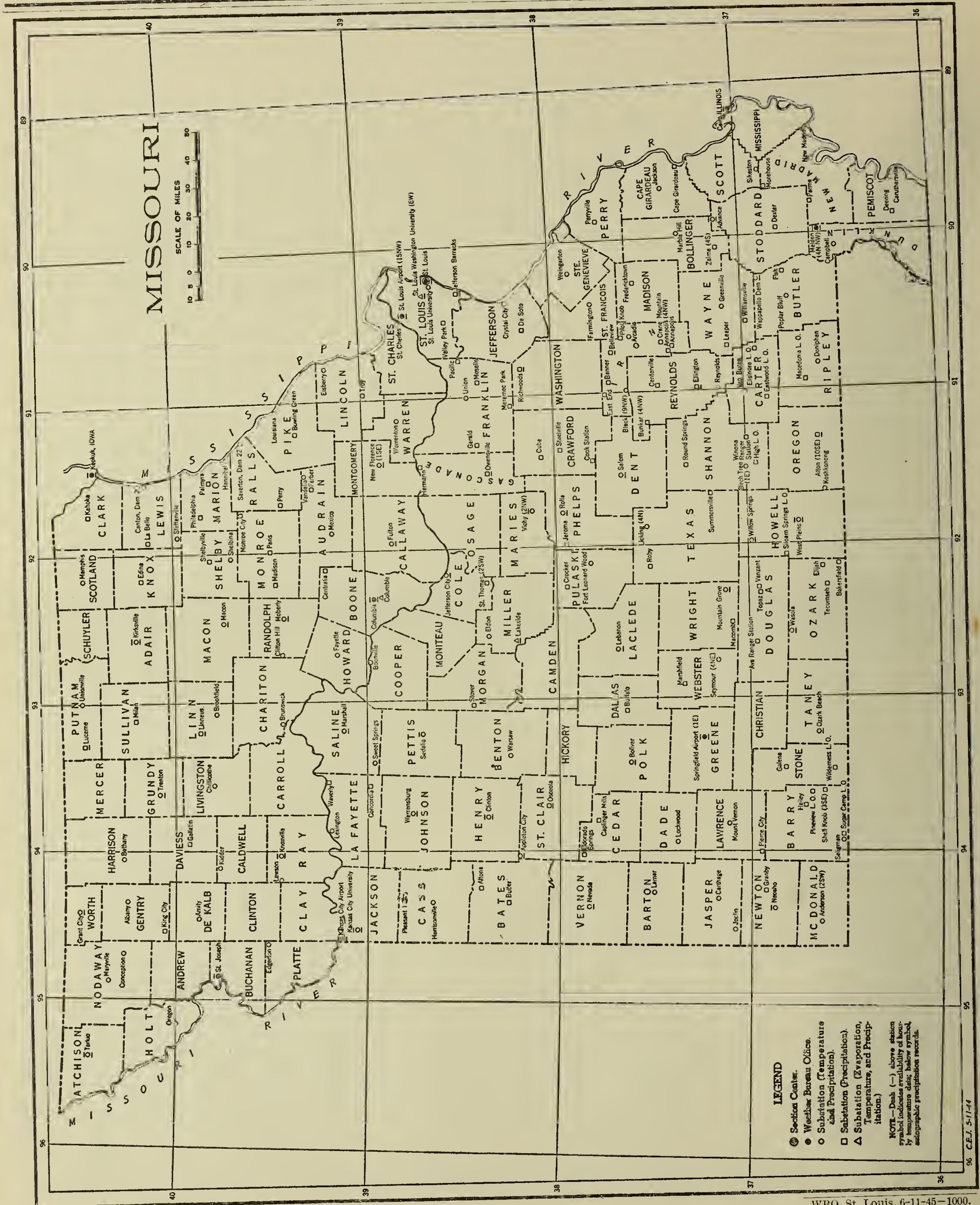
ERRATA

January 1945, page 2: ~~Maximum~~ Minimum temperature and date at Appleton City should be 7 on 1st. Days clear, partly cloudy, and cloudy at Birch Tree should be 12°, 6°, and 10°, respectively. Total snowfall at Fort Leonard Wood should be 4.9. Date of maximum temperature at Lamar should be 11.

Daily Temperatures for April 1945

Stations		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	..	Mean
Northern Division																																	
Brunswick /	Maximum	67	53	76	40	53	65	69	73	79	80	70	76	78	52	61	53	61	54	56	76	69	74	73	48	46	60	65	55	67	66	..	63.8
	Minimum	44	47	46	33	30	30	36	44	50	55	60	46	46	51	43	43	39	40	37	41	45	48	48	43	43	39	38	41	41	41	..	42.9
Chillicothe /	Maximum	73	56	56	40	55	68	71	75	81	80	69	76	69	50	59	60	63	54	60	79	70	73	66	48	45	61	65	56	68	67	..	63.8
	Minimum	43	42	42	30	28	29	40	45	48	53	57	42	44	49	40	40	37	36	37	41	42	48	47	41	42	37	37	43	40	45	..	41.7
Columbia	Maximum	63	59	78	48	52	65	71	74	79	80	72	77	79	58	58	62	61	55	57	79	68	74	72	49	47	60	64	53	68	66	..	64.9
	Minimum	50	45	45	32	29	38	45	52	56	60	59	52	55	42	43	44	39	38	37	47	50	48	49	45	41	40	40	46	40	45	..	45.1
Fayette	Maximum	65	61	77	70	52	65	69	72	77	79	70	75	82	64	52	62	60	57	55	72	69	72	72	61	46	60	63	58	65	64	..	65.5
	Minimum	46	46	42	32	28	32	39	47	54	59	56	48	50	44	42	45	38	37	34	41	42	47	49	43	42	37	40	45	40	45	..	43.0
Grant City	Maximum	76	62	48	37	51	67	68	71	74	75	68	69	63	55	47	57	60	51	64	78	75	73	68	58	47	61	62	55	64	65	..	62.3
	Minimum	43	38	34	26	25	36	42	45	53	57	50	36	47	41	35	40	33	31	36	39	39	48	46	40	38	36	40	43	34	40	..	39.7
Hannibal	Maximum	65	59	70	67	52	64	68	73	78	80	75	72	77	60	54	62	60	54	60	75	64	67	68	50	45	60	62	57	65	64	..	64.2
	Minimum	50	47	45	32	34	36	44	51	54	59	58	48	57	41	40	42	37	36	36	47	46	43	49	44	42	40	40	44	43	45	..	44.3
Kansas City Airport.	Maximum	69	59	52	38	53	65	68	72	77	77	70	76	74	56	62	62	60	56	61	80	68	77	62	48	46	61	64	53	67	68	..	63.4
	Minimum	53	42	34	31	30	42	48	54	59	61	50	48	54	43	43	41	40	40	45	46	50	53	46	43	42	40	48	47	42	46	..	45.4
Kirksville	Maximum	74	59	68	68	55	67	71	74	81	81	75	77	73	59	47	58	68	54	60	79	74	72	68	55	46	65	63	59	72	71	..	66.4
	Minimum	50	42	41	30	28	36	45	48	50	55	55	43	53	43	37	45	34	33	36	42	41	44	49	41	41	36	38	45	41	41	..	42.1
Lawson	Maximum	73	60	51	39	52	66	68	72	78	75	69	77	71	59	52	60	59	54	60	78	70	75	64	47	45	60	65	55	66	67	..	62.9
	Minimum	48	39	39	29	25	36	44	48	55	49	49	41	53	52	40	41	34	33	38	48	49	50	45	40	40	36	43	44	36	42	..	42.2
Louisiana /	Maximum	70	60	72	40	53	65	70	74	79	79	78	74	78	49	65	66	60	53	62	76	65	68	71	51	48	59	64	55	65	63	..	64.4
	Minimum	46	46	44	39	31	32	41	49	50	55	63	54	56	48	42	43	39	39	30	39	50	45	50	48	44	43	34	42	44	45	..	44.4
Macon /	Maximum	61	56	75	39	51	65	68	71	78	79	71	74	74	51	60	55	60	53	57	76	67	69	70	47	43	60	65	60	68	65	..	62.9
	Minimum	44	45	42	32	28	29	36	45	51	53	59	44	44	47	39	40	37	36	36	40	44	44	49	42	41	37	38	40	41	43	..	41.5
Maryville	Maximum	72	69	45	36	49	67	68	71	73	73	64	70	66	52	44	54	59	52	64	78	73	75	72	51	49	60	62	55	64	64	..	61.7
	Minimum	42	35	32	24	21	35	42	44	52	57	46	39	45	39	34	37	28	28	32	42	39	46	47	40	37	32	40	42	37	38	..	38.4
Mexico /	Maximum	63	53	76	39	52	65	70	74	79	79	73	75	79	49	62	60	60	53	58	77	61	71	72	47	47	59	65	56	64	64	..	63.4
	Minimum	41	49	43	34	29	31	38	44	51	56	60	52	52	48	42	43	38	38	37	41	46	45	51	45	43	40	38	40	39	44	..	43.3
Moberly /	Maximum	62	65	75	38	51	65	68	72	77	79	72	74	81	66	64	54	64	64	55	80	66	70	71	47	46	59	61	63	66	66	..	64.7
	Minimum	49	45	45	32	27	33	42	50	51	52	62	46	52	46	41	42	38	37	38	46	45	45	48	43	42	37	42	45	40	44	..	43.5
Oregon	Maximum	75	68	49	40	52	68	68	72	75	73	67	75	70	55	45	50	61	55	66	82	76	79	77	55	50	63	65	56	65	68	..	64.0
	Minimum	49	37	34	26	25	38	45	49	60	60	48	42	46	42	37	38	33	30	39	45	42	50	46	40	40	35	46	44	39	40	..	41.5
St. Charles /	Maximum	63	63	75	48	55	66	74	74	79	81	77	80	75	63	68	69	61	58	65	76	68	68	70	58	50	61	66	52	67	68	..	66.6
	Minimum	42	53	53	48	31	35	38	50	54	58	61	55	58	51	46	46	39	43	36	41	54	46	53	52	46	43	38	45	43	47	..	46.8
St. Joseph	Maximum	73	53	43	37	52	68	69	71	73	75	59	75	64	51	52	59	60	54	66	81	70	77	60	52	46	63	64	55	64	68	..	61.8
	Minimum	47	39	31	29	28	40	48	51	58	58	48	44	50	42	39	40	36	37	43	46	46	52	46	43	42	39	45	46	41	45	..	43.3
Trenton	Maximum	72	64	55	42	53	67	71	72	79	79	76	72	68	61	59	55	61	60	59	79	79	72	66	55	55	62	63	60	68	65	..	65.0
	Minimum	48	42	40	31	28	36	44	49	52	56	57	39	51	45	38	39	45	35	42	49	43	48	51	41	41	40	39	46	37	42	..	43.1
Unionville /	Maximum	79	58	50	38	52	73	76	78	85	80	72	76	66	54	59	60	62	53	62	78	75	77	70	51	51	63	65	59	73	69	..	65.5
	Minimum	34	36	38	27	25	25	34	40	40	42	41	40	35	45	33	35	32	30	32	34	37	38	44	39	38	34	35	40	37	36	..	35.9
Warrenton	Maximum	67	62	75	73	51	64	71	72	78	80	77	79	76	70	55	68	60	59	62	79	75	68	71	67	53	62	65	61	67	66	..	67.8
	Minimum	48	51	49	34	29	33	38	50	53	59	61	55	55	44	42	50	37	39	31	42	52	43	52	47	43	41	35	45	40	42	..	44.7
Keokuk, Iowa	Maximum	69	55	68	53	51	65	68	71	77	78	74	73	70	52	54	64	60	50	59	72	62	67	64	47	45	58	61	57	68	61	..	62.4
	Minimum	54	49	43	32	30	41	50	54	54	59	53	48	52	41	38	42	36	33	40	46	44	42	47	42	40	40	38	46	45	43	..	44.1
Southwestern Division																																	
Clinton	Maximum	59	79	42	55	64	73	74	81	80	71	76	77	61	62	62	60	60	54	78	70	76	68	49	47	60	67	52	68	65	55	..	64.8
	Minimum	43	40	30	26	29	36	42	45	55	50	48	53	39	42	40	34	35	34	39	48	42	46	40	39	36	35	41	44	45	47	..	40.8
Eldon	Maximum	64	59	79	74	54	64	71	74	79	79	74	79	76	67	57	69	61	57	60	78	70	72	71	66	..	63	63	58	65	67	..	[a]67.9
	Minimum	47	49	49	33	28	32	36	47	55	60	57	52	56	45	45	45	38	40	35	49	53	46	*52*	46	..	41	47	47	41	47	..	[a]45.4
Harrisonville /	Maximum	65	56	50	41	55	68	69	72	78	75	70	77	78	50	61	51	60	58	58	78	70	61	76	74	48	60	66	53	69	68	..	63.8
	Minimum	46	41	41	30	24	28	37	43	50	52	56	45	46	47	41	43	36	38	37	41	46	41	55	54	41	42	40	45	40	44	..	42.3
Jefferson City /	Maximum	73	55	79	42	53	66	72	74	79	79	73	78	78	54	68	64	61	58	59	79	71	73	73	51	49	64	66	53	68	68	..	66.0
	Minimum	43	43	49	37	29	29	35	42	54	57	59	56	51	54	45	48	39	39	36	38	49	46	50	47	45	41	40	42	38	46	..	44.2
Joplin	Maximum	67	62	84	48	54	63	70	70	77	77	73	77	75	68	73	57	58	54	63	81	77	69	70	54	55	63	64	56	64	65	..	66.3
	Minimum	54	49	48	34	31	38	46	53	62	65	60	54	65	55	57	45	41	44	45	55	60	61	54	48	43	40	49	50	49	48	..	50.1
Lamar /	Maximum	68	61	80	43	54	64	70	71	70	76	72	80	73	61	69	56	60	55	60	79	75	71	69	51	51	62	65	56	66	67	..	65.2
	Minimum	43	46	45	32	25	26	33	39	46	55	58	48	48	58	49	44	35	38	35	40	47	54	52	44	42	35	35	45	43	43	..	42.8
Lebanon	Maximum	79	60	76	76	52	63	69	71	76	77	76	76	75	65	67	69	60	59	60	79	78	74	67	66	57	61	68	62	64	65	..	68.2
	Minimum	49	49	49	32	25	33	41	47	53	57	56	55	53	55	49	47	34	39	33	46	55	48	53	47	45	40	39	46	39	41	..	45.2
Lexington /	Maximum	68	56	74	42	53	68	70	74	82	80	74	80	80	62	62	58	62	58	60	80	70	78	70	48	45	65	66	55	72	72	..	66.1
	Minimum	48	50	45	32	30	32	43	52	52	55	55	52	52	52	44	46	38	38	42	45	48	50	54	42	44	42	42	46	43	46	..	45.3
Marshall	Maximum	78	61	78	66	51	64	70	68	79	80	78	76	*80*	77	56	61	60	65	55	79	78	73	72	60	48	59	65	62	68	66	..	67.8
	Minimum	42	44	45	31	28	36	44	60	52	57	56	47	54	44	42	47	37	40	39	46	48	49	51	42	42	37	43	45	43	45	..	44.5
Mountain Grove	Maximum	66	61	75	75	53	60	67	68	73	74	72	73	79	78	70	70	60	58	63	76	75	71	66	64	67	66	63	56	65	67	..	67.7
	Minimum	48	50	48	33	26	33	37	44	51	54	59	54	57	57	52	48	36	40	35	46	54	50	53	50	45	40	41	46	40	38	..	45.5
Neosho	Maximum	71	69	84	82	55	65	72	71	77	77	77	78	78	78	70	63	60	60	64	83	82	78	69	67	60	63	62	58	65	67	..	70.2
	Minimum	45	50	52	34	24	30	35	51	51	62	59	46	58	61	55	46	34	38	37	47	58	56	56	49	44	38	58	49	42	38	..	46.8
Nevada	Maximum	70	62	80	55	56	64	71	71	79	76	74	80	78	64	64	65	61	59	58	82	80	75	70	58	50	64	67	56	68	70	..	67.6
	Minimum	49	46	49	33	27	35	39	47	56	57	57	49	60	50	48	46	36	43	36	47	57	55	53	45	45	36	43	48	42	45	..	46.0
Sedalia	Maximum	70	61	79	76	52	65	70	74	79	81	76	78	79	77	57	56	59	59	55	78	76	74	70	61	48	61	65	62	67	66	..	67.7
	Minimum	40	45	44	32	27	37	43	50	50	61	57	46	54	46	43	48	38	40	37	47	50	49	50	43	44	37	42	45	44	44	..	44.4
Springfield .. ½ mile E	Maximum	60	59	77	50	52	62	69	68	75	76	69	73	77	70	70	59	57	54	62	76	75	63	67	57	61	62	62	56	65	65	..	64.9
	Minimum	50	48	48	29	28	34	39	46	52	57	56	55	58	54	56	40	38	39	38	45	56	52	55	47	41	40	44	47	44	42	..	45.9
Warrensburg	Maximum	70	62	76	76	54	65	68	72	79	79	76	78	81	78	52	63	62	..	61	78	76	76	73	59	49	62	67	63	68	68	..	[a]68.7
	Minimum	49	43	44	31	28	37	43	50	57	60	56	46	54	46	42	44	37	..	42	48	49	52	52	42	44	37	46	45	45	46	..	[a]45.3
Southeastern Division																																	
Arcadia /	Maximum	65	64	77	65	62	75	75	82	80	80	78	78	84	74	77	69	68	67	68	80	77	70	65	70	62	65	70	58	69	72	..	71.5
	Minimum	42	46	52	52	29	25	25	38	45	55	58	56	55	58	49	52	39	36	29	29	46	47	46	55	49	43	35	35	42	39	..	43.6
Birch Tree .. ½ mile E	Maximum	62	..	79	70	56	62	69	72	78	76	77	75	81	72	72	69	..	..	64	68	78	70	70	73	68	64	60	56	65	67	..	[c]71.9
	Minimum	47	..	48	40	25	28	..	42	48	58	56	55	61	60	53	51	..	..	32	45	50	52	56	52	45	42	38	47	40	37	..	[d]46.5
Caruthersville /	Maximum	67	74	83	66	53	57	66	72	76	80	81	80	80	71	79	72	60	65	57	75	75	66	69	75	78	63	65	56	68	70	..	70.0
	Minimum	53	57	57	59	34	34	42	44	53	57	63	61	63	61	61	60	45	44	45	47	57	55	55	59	56	48	45	46	49	43	..	51.8
Crystal City	Maximum	72	62	72	73	55	64	72	76	78	80	79	81	80	68	56	70	66	61	67	78	75	68	67	65	64	62	70	68	67	68	..	69.5
	Minimum	50	56	52	39	28	27	37	45	55	54	61	52	57	54	49	52	38	38	30	47	54	46	52	54	47	43	36	47	45	40	..	46.2
Doniphan	Maximum	68	73	83	77	57	63	70	75	81	82	81	77	86	79	78	72	66	65	70	82	81	76	75	76	75	75	67	60	70	72	..	73.7
	Minimum	49	57	52	44	26	28	30	40	47	49	63	60	*58*	60	55	51	36	35	32	*52*	53	52	*53*	58	51	42	39	50	43	38	..	46.8
Farmington	Maximum	64	62	76	72	51	61	69	72	74	77	77	76	82	67	57	69	61	57	63	78	73	67	64	66	59	61	67	60	63	66	..	67.0
	Minimum	48	56	52	39	30	30	39	45	52	55	62	58	58	54	49	52	39	40	31	48	56	45	51	55	47	42	36	47	44	43	..	46.8
Jackson	Maximum	68	67	78	77	52	60	68	73	75	80	80	75	80	78	70	71	61	62	64	78	*74*	74	*71*	73	71	68	69	66	65	68	..	70.5
	Minimum	49	58	52	45	30	30	34	45	53	58	60	61	58	60	52	52	38	38	33	*48*	49	*45*	*53*	*54*	*49*	40	38	39	41	41	..	46.8
Poplar Bluff	Maximum	*64*	72	81	74	56	62	71	75	74	74	74	81	80	84	73	77	73	63	63	*78*	79	76	68	70	76	75	67	63	63	68	..	71.8
	Minimum	49	51	51	42	31	30	33	41	44	41	44	55	59	64	61	55	*42*	33	34	*53*	51	55	51	56	56	54	42	41	41	52	..	47.1
Rolla /	Maximum	60	56	78	41	52	63	70	72	77	78	74	78	76	60	69	66	60	57	64	79	71	69	68	54	53	61	68	56	65	67	..	65.4
	Minimum	49	52	49	36	27	35	42	46	56	58	65	53	55	58	47	49	36	40	34	47	56	48	54	49	46	41	40	47	40	45	..	46.7
St. Louis	Maximum	63	62	72	69	50	62	70	74	77	78	78	78	73	63	59	68	59	54	65	76	66	66	66	58	53	57	66	52	63	63	..	65.3
	Minimum	51	52	53	34	34	39	47	52	55	58	61	58	58	48	47	46	43	45	43	53	53	46	54	49	45	43	46	48	44	51	..	48.5
Salem	Maximum	67	60	77	74	52	63	70	73	76	79	76	78	79	68	63	69	61	59	65	79	76	68	66	64	58	62	69	64	64	66	..	68.2
	Minimum	48	53	50	35	27	30	38	46	54	56	60	53	56	55	49	48	36	41	31	46	57	50	52	50	47	41	36	49	39	41	..	45.8
Sikeston /	Maximum	66	71	82	65	55	60	70	73	76	81	82	73	82	73	79	70	62	68	66	78	73	66	70	77	77	65	63	55	66	69	..	70.4
	Minimum	51	51	53	60	34	33	39	47	55	59	62	62	64	61	56	57	40	43	37	49	58	51	56	58	54	49	41	49	47	41	..	50.6
Union ......1½ mi. SE	Maximum	63	61	77	75	53	64	73	75	78	80	79	80	78	68	55	65	61	59	76	79	78	66	72	69	57	61	66	62	66	66	..	68.7
	Minimum	46	55	51	37	30	29	44	48	54	56	60	53	55	49	47	52	39	41	30	44	52	44	53	50	48	43	35	46	41	42	..	45.8
West Plains	Maximum	62	63	80	69	55	62	70	71	75	78	73	73	84	71	74	70	61	57	66	80	78	67	71	73	71	66	61	56	67	68	..	69.1
	Minimum	48	52	52	34	28	28	31	40	55	55	60	59	60	57	56	45	36	35	35	49	56	51	55	54	47	43	40	48	43	40	..	46.4
Cairo, Ill.	Maximum	66	68	80	74	53	60	67	72	75	80	80	72	81	71	80	72	60	62	65	77	73	67	71	75	77	62	64	58	66	69	..	69.9
	Minimum	55	60	57	42	38	43	44	51	57	61	63	63	63	60	58	53	46	47	46	56	57	53	60	60	55	49	46	51	50	46	..	53.0

/ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs. [a], [b], [c], etc., number of days missing, for example, [b] indicates two days missing. Italics data interpolated. § Partly interpolated.


MISSOURI
SCALE OF MILES
10 5 0 10 20 30 40 50
LEGEND
◉ Section Center.
● Weather Bureau Office.
○ Substation (Temperature and Precipitation).
□ Substation (Precipitation).
△ Substation (Evaporation, Temperature, and Precipitation.)
NOTE.—Dash (—) above station symbol indicates availability of hourly temperature data; below symbol, autographic precipitation records.
C.E.J. 5-1-44
MISSISSIPPI RIVER
MISSOURI RIVER
GASCONADE
ILLINOIS
IOWA
ATCHISON
NODAWAY
WORTH
HARRISON
MERCER
PUTNAM
SCHUYLER
SCOTLAND
CLARK
HOLT
ANDREW
GENTRY
DAVIESS
GRUNDY
SULLIVAN
ADAIR
KNOX
LEWIS
BUCHANAN
DE KALB
CALDWELL
LIVINGSTON
LINN
MACON
SHELBY
MARION
PLATTE
CLINTON
CLAY
RAY
CARROLL
CHARITON
RANDOLPH
MONROE
RALLS
PIKE
JACKSON
LA FAYETTE
SALINE
HOWARD
BOONE
AUDRAIN
MONTGOMERY
LINCOLN
CASS
JOHNSON
PETTIS
COOPER
MONITEAU
CALLAWAY
WARREN
ST. CHARLES
ST. LOUIS
BATES
HENRY
BENTON
MORGAN
MILLER
COLE
OSAGE
MARIES
GASCONADE
FRANKLIN
JEFFERSON
VERNON
ST. CLAIR
HICKORY
CAMDEN
PULASKI
PHELPS
CRAWFORD
WASHINGTON
STE. GENEVIEVE
PERRY
BARTON
CEDAR
POLK
DALLAS
LACLEDE
TEXAS
DENT
IRON
ST. FRANCOIS
MADISON
BOLLINGER
CAPE GIRARDEAU
JASPER
DADE
GREENE
WEBSTER
WRIGHT
SHANNON
REYNOLDS
WAYNE
STODDARD
SCOTT
MISSISSIPPI
NEWTON
LAWRENCE
CHRISTIAN
DOUGLAS
HOWELL
OREGON
CARTER
RIPLEY
BUTLER
NEW MADRID
PEMISCOT
DUNKLIN
MC DONALD
BARRY
STONE
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U. S. DEPARTMENT OF COMMERCE, WEATHER BUREAU

CLIMATOLOGICAL DATA

MISSOURI SECTION

H. F. WAHLGREN
ST. LOUIS, MO.

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GENERAL SUMMARY

May was decidedly cool this year and it was also wetter than normal, making it the fourth consecutive month of 1945 with above average precipitation. Precipitation for the four months, February to May, inclusive, of the current year averaged 24.74 inches, which is the wettest of record (1888-1945) for that period of time. The previous wettest comparable four-month period was in 1927 when the average was 22.63 inches, while in 1892 the same four months averaged 22.16 inches. By contrast the average for 1936, for a similar period, was only 7.74 inches, or approximately 30 percent of this year's average.

The precipitation during the month was quite frequent, occurring on an average of 12 days, for the State as a whole, while a number of stations had measurable rain on 15 or 16 days in May. The distribution was rather irregular, ranging from a total of 9.24 inches in the extreme northwestern corner of the State to 1.79 inches in the northeastern portion. The Southwestern Division received the most rainfall during the month, with an average of 6.20 inches, while the average for the Southeastern and Northern Divisions was 5.50 inches and 4.79 inches, respectively. These averages are approximately one inch above the normals for the respective divisions, except for the Northern, where the May average was only slightly above normal. Heavy to excessive local rains of three to four inches, within a twenty-four hour period, resulted in rapid rises and overflows in smaller streams and creeks and caused serious washing of plowed fields.

The major streams of the State, particularly the lower Missouri, the Mississippi, and the St. Francis Rivers, were at high stages or in flood during much of the month, although crests were not as high as in April. The frequency and duration of flood conditions in this State the past three months has probably never been as serious in the climatic history of the State.

The State average temperature for May, 60.5°, was the lowest since 1935, and it has been lower in only five Mays during the past 58 years. The sub-normal temperatures were general in all divisions of the State, not a single reporting station having a monthly mean normal or above. A number of stations reported minimum temperatures below freezing, especially in the Northern and Southwestern Divisions, with light frost forming, but no damage reported. The 5th and 6th were generally the coldest, and the 20th and 31st the warmest days of the month. Only a very few days had average temperatures normal or above, and there were no outstanding warm periods. The first eleven days of the month and the 15th to 19th were decidedly cool periods. The extreme maximum of 92° for this month was the lowest State maximum for May in the past nine years, and it has been lower only three times since 1888, and then by only one degree.

Sunshine averaged considerably below normal and there were an average of eleven cloudy days for the State, as a whole. Hail was especially frequent during May, with very destructive occurrences locally on the 14th, 24th, and 29th. No tornadoes were reported, but a number of minor windstorms occurred on several days.

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PRESSURE, WIND, HUMIDITY, AND SUNSHINE

Stations	Sea-level pressure, extremes—inches				Wind				Relative humidity ¶				
	Highest	Date	Lowest	Date	Average hourly velocity	Maximum velocity	Direction	Date	6:30 a. m.	12:30 p. m.	6:30 p. m.	Percentage of sunshine	Degree days
Columbia..	30.28*	23	29.34*	14	7.6	31	nw.	27	82*	61*	62*	37	218
Kan. City Airp't.	30.26	23	29.35	21	11.6	45	sw.	21	79	58	58	38	211
St. Joseph........	30.25*	8	29.30*	21	9.4	34	w.	21	84*	61*	62*	59	227
St. Louis	30.30*	23	29.46*	14	12.4	40	sw.	21	79	61	62*	52	191
Springfield	30.29	23	29.44	14	11.3	42	sw.	21	87	68	63	48	234
Cairo, Ill........	30.30	23	29.56	7	8.1	40	nw.	29	83	62	..	55	125
....	.....	..	.....	..	....	..	......	..	..	..	..	..	....

* Data for Airport station.   ¶ C. S. T.

COMPARATIVE DATA FOR MAY

Year	Temperature			Precipitation					Number of days			
	Average for State	Highest	Lowest	Average for State	Average, Northern Division	Average, Southwestern Division	Average, Southeastern Division	Snowfall, Average for State	Precip. .01 inch or more	Clear	Partly cloudy	Cloudy
1888	62.1	93	30	4.98	6.23	4.73	3.98	....	5	..	..	..
1889	63.5	100	28	6.06	7.41	6.91	3.87	....	5	..	..	..
1890	62.8	97	26	3.65	2.91	4.62	3.43	....	6	..	..	..
1891	61.5	97	27	4.11	4.84	3.87	3.62	0	8	..	..	..
1892	60.7	91	28	9.04	8.72	10.11	8.28	0	17	5	9	17
1893	61.8	94	30	6.14	5.74	6.11	6.56	0	10	11	11	9
1894	63.7	96	29	4.31	2.60	5.18	5.14	0	8	13	11	7
1895	64.6	103	28	3.95	4.01	5.45	2.40	0	9	13	12	6
1896	70.1	96	37	9.17	9.00	10.29	8.22	0	12	12	12	7
1897	62.4	93	28	2.60	2.64	2.68	2.47	0	7	16	11	4
1898	65.2	97	31	7.68	8.36	7.81	6.88	0	14	12	10	9
1899	66.9	96	34	6.07	7.01	5.89	5.31	0	2	10	13	8
1900	66.3	97	29	3.63	3.80	3.00	4.09	0	10	14	11	6
1901	63.8	98	30	1.47	1.55	1.43	1.42	0	6	15	10	6
1902	69.4	98	39	4.82	5.31	5.65	3.51	0	11	13	11	7
1903	65.1	92	23	7.05	7.01	8.21	5.93	0	15	9	10	12
1904	63.1	95	32	4.74	5.46	5.40	3.35	0	12	13	10	8
1905	64.9	94	34	5.33	4.20	6.62	5.17	0	10	12	11	8
1906	66.3	98	27	2.45	2.08	3.02	2.25	0	7	15	10	6
1907	59.5	91	17	5.61	3.64	5.92	7.27	0.8	10	14	6	11
1908	66.1	96	24	6.91	8.16	6.77	5.79	0	12	12	10	9
1909	63.3	96	25	5.55	5.19	6.22	5.25	T.	9	15	9	7
1910	60.1	94	32	6.38	7.46	7.42	4.25	0	13	11	8	12
1911	68.8	101	27	1.46	2.45	1.10	0.84	0	5	19	7	5
1912	67.6	97	30	3.80	3.90	3.45	4.05	0	7	18	8	5
1913	65.8	101	33	2.79	3.82	3.16	1.40	0	8	16	7	8
1914	66.6	98	31	1.49	0.97	2.31	1.20	0	5	17	9	5
1915	63.7	97	30	7.72	8.34	8.11	6.70	0	12	12	7	12
1916	65.6	96	33	5.47	7.30	5.46	3.64	0	11	15	8	8
1917	58.7	91	30	4.28	4.14	5.38	3.32	0	10	15	7	9
1918	68.3	100	28	5.50	5.71	4.23	6.57	0	10	16	8	7
1919	62.0	93	35	5.74	5.65	5.96	5.61	0	13	10	10	11
1920	63.8	97	32	5.01	3.77	5.10	6.15	0	12	9	9	13
1921	66.4	102	28	3.68	3.80	3.68	3.55	0	7	17	8	6
1922	67.2	97	38	3.07	3.53	3.59	2.09	0	10	14	10	7
1923	62.7	97	25	4.68	2.45	4.40	7.18	T.	12	11	10	10
1924	58.6	96	31	4.71	3.18	5.13	5.83	0	10	13	8	10
1925	61.2	98	24	2.10	2.32	2.39	1.60	0	7	14	9	8
1926	67.0	100	29	2.78	2.42	3.34	2.58	0	7	16	9	6
1927	64.6	94	34	6.95	4.55	6.77	9.54	0	12	11	10	10
1928	65.8	95	29	2.87	2.05	3.16	3.41	0	8	16	9	6
1929	61.7	95	28	7.76	5.30	9.66	8.31	0.3	13	9	10	12
1930	64.7	95	33	3.33	3.22	3.78	2.98	0	9	16	8	7
1931	61.0	96	29	4.50	4.84	4 64	4.03	0	10	15	6	10
1932	66.1	98	31	1.80	2.44	2.03	0.93	0	6	18	9	4
1933	65.9	96	35	7.75	6.44	8.07	8.74	0	13	11	9	11
1934	69.0	110	31	1.93	1.82	2.42	1.56	0	5	21	7	3
1935	60.3	92	32	8.46	9.73	7.99	7.66	0	17	6	8	17
1936	68.8	95	32	2.52	3.07	2.95	1.54	0	7	17	10	4
1937	66.2	98	34	3.86	3.97	4.36	3.25	0	9	13	11	7
1938	65.0	94	32	6.13	5.32	7.75	5.31	0	13	9	12	10
1939	67.4	102	31	4.17	2.94	5.98	3.60	0	9	15	9	7
1940	62 7	95	30	2.44	2.44	2.40	2.48	0	8	16	9	6
1941	68.9	97	35	2.29	2.71	1.95	2.21	0	8	16	11	4
1942	63.8	97	29	5.31	5.09	5.37	5.47	0	10	11	11	9
1943	63.9	95	33	9.91	7.83	13.05	8.85	0	16	7	9	15
1944	68.4	99	27	4.44	4.29	4.12	4.91	0	12	10	13	8
1945	60.5	92	31	5.50	4.79	6.20	5.50	0	12	10	10	11
....	....	..	..	....	....	....	....	....	..	..	..	..
....	....	..	..	....	....	....	....	....	..	..	..	..
....	....	..	..	....	....	....	....	....	..	..	..	..
Period	**64.5**	**110**	**17**	**4.79**	**4.65**	**5.22**	**4.50**	**T.**	**10**	**13**	**10**	**8**

NAT. HIST.

Climatological Data for May 1945

Stations	Counties	Elevation, feet	Temperature, in degrees Fahr.							Precipitation, in inches						Number of days				Prevailing direction of wind	Observers
			Length of record, years	Mean	Departure from the normal	Highest	Date	Lowest	Date	Length of record, years	Total	Departure from the normal	Greatest in 24 hours [4]	Date	Total snowfall, unmelted	With precip., .01 inch or more [5]	Clear	Partly cloudy	Cloudy		
Northern Division																					
Albany	Gentry	930	4	58.0	......	87	20	31	5	16	7.48	+4.80	1.83	14	0	16	8[a]	15[a]	7[a]	s.	Curtis E. Grace
Bethany‡	Harrison	916	50	53.5[h]	− 9.0	85[h]	20	35[h]	5†	52	5.80§	+1.63	1.94	14	0	9	10[h]	6[h]	7[h]	nw.	A. S. Cumming
Brookfield	Linn	767	4	59.2	......	90	31	35	18	4	6.60	......	2.42	24	0	12	16	4	11	e.	G. F. Breen
Brunswick	Chariton	652	64	58.6	− 5.6	86	31	38	18†	66	7.38	+2.77	1.63	24	0	12	10	3	18	se.	O. K. Benecke
Canton, Lock & Dam 20	Lewis	488	7	58.2	......	86	20	38	10	15	4.54	−0.78	1.83	14–15	0	12	7	12	12	nw.	Lockmaster
Chillicothe	Livingston	779	36	58.0	− 4.9	89	20	37	10	39	4.45	+0.36	0.97	16	0	12	18	3	10	nw.	Wm. J. Olenhouse
Clifton Hill	Randolph	731	46	59.6	− 4.0	85	20†	36	18	36	4.66	+0.26	1.05	14	0	14	9	12	10	nw.	Dr. A J. Bradsher
Columbia	Boone	740	55	59.6	− 5.4	89	20	39	18	55	5.80	+1.34	2.04	27–28	0	14	2	15	14	s.	U. S. Weather Bureau
Conception	Nodaway	1,108	56	58.3	− 3.8	85	20	35	10	61	8.19	+4.13	2.46	13–14	0	15	7	13	11	se.	Fr. Adelhelm Hess
Edgerton	Platte	856	25	59.5	− 3.5	86	20†	32	5	42	4.65	+0.45	1.70	15–16	0	9	16	9	6	se.	Paul C. Handley
Elsberry	Lincoln	449	14	....	......	..	..	..	..	14	....	......	....	.....	.	..	..	..	..	......	John Dowell
Fayette	Howard	760	65	59.3	− 4.5	87	20	38	10†	62	5.15	+0.83	1.50	14	0	13	12	4	15	sw.	Irvin E. Schnell
Fulton	Callaway	818	57	59.7	− 4.9	88	20	39	11	53	5.46	+0.86	1.13	14–15	0	12	17	5	9	s.	Frank E. Hillgartner
Grant City	Worth	1,134	41	57.2	− 4.8	86	20	35	10	53	7.85	+3.62	3.53	14	T.	16	10	8	13	e.	J. Homer Korn
Hannibal	Marion	759	53	58.6	− 5.0	87	31	39	3†	61	3.21	−1.14	0.94	16	0	10	8	12	11	s.	Hannibal Water Dept.
Kansas City Airport	Jackson	741	56	60.8	− 4.0	88	20	40	10	56	5.55	+1.61	1.84	16	0	13	4	11	16	ne.	U. S. Weather Bureau
Kansas City Univ.	Jackson	908	7	60.3	......	88	20	34	5	7	5.39	......	1.89	16	0	14	8	4	19	ne.	University of Kansas City
Kidder	Caldwell	1,020	53	57.8	− 4.8	87	20	35	4†	57	5.98	+1.33	1.37	13–14	0	12	7	6	18	s.	Mrs. Geraldine Terry
Kirksville	Adair	969	56	59.4	− 2.9	89	20	35	10	63	4.47	−0.86	1.27	14	0	12	7	6	18	sw.	P. O. Selby
Lawson	Ray	1,070	7	58.8	......	86	20	36	5	7	4.72	......	1.72	16	0	13	6	16	9	ne.	Elmer E. Lamb
Louisiana	Pike	469	51	58.0	− 5.7	86	20	35	9†	61	3.01	−1.69	1.13	15	0	8	12	12	7	s.	Stark Bro's Nurseries
Macon	Macon	875	46	57.7	− 5.8	87	20	35	9	52	4.03	−0.56	1.73	16	0	10	8	7	16	ne.	John W. Atwell
Maryville	Nodaway	1,169	55	56.8	− 4.5	86	20	33	8†	51	9.24	+4.59	4.06	13–14	T.	16	5	7	19	se.	R. B. Montomery
Memphis	Scotland	787	6	63.2	......	87	20	34	10	15	3.96	−0.05	1.29	14–15	0	10	15	3	13	sw.	John W. Alexander
Mexico	Audrain	800	56	58.9	− 5.1	86	20†	38	10†	67	6.34	+1.74	2.90	14–15	0	14	13	6	12	sw.	Darrence W. Stuart
Moberly .....3½ mi. NE	Randolph	860	8	58.8	......	88	20	34	9	8	3.76	......	1.60	17	0	12	16	3	12	sw.	F. W. Bell
New Florence. 1 mi SE	Montgomery	885	2	57.9	......	85	20	38	10†	3	3.17	......	0.90	14–15	0	14	1	10	20	s.	U. S. Weather Bureau
Oregon	Holt	1,048	89	59.2	− 4.0	86	20	35	10	89	7.81	+3.28	1.78	13–14	0	13	8	15	8	ne.	Miss Mina Wright
St. Charles	St. Charles	520	57	60.8	− 2.3	90	31	40	3†	67	2.35	−1.93	0.87	14–15	0	11	15	9	7	s.	Martin L. Comann
St. Joseph	Buchanan	957	35	59.6	− 4.6	87	20	39	5	73	5.25	+0.55	1.69	13–14	0	14	13	13	5	s.	U. S Weather Bureau
Saverton, Lock No. 22.	Ralls	472	7	58.3	......	87	20	38	9†	7	3.29	......	1.12	16–17	0	10	13	9	9	nw.	Lockmaster
Shelbina	Shelby	779	4	59.3	......	87	20	34	9	52	4.05	−0.27	1.30	15–16	0	10	11[b]	8[b]	10[b]	nw.	Guyman Hatcher
Steffenville	Lewis	650	47	58.4	− 5.4	86	20†	35	9	52	3.87	−0.70	1.15	15–16	0	12	10	12	9	s.	Mrs. Fannie V. Gross
Tarkio	Atchison	916	42	57.2	− 5.4	86	20	31	5	51	5.92	+1.38	....	.....	0	14	6	17	8	n.	C. A. A. Station
Trenton	Grundy	822	49	59.1	− 4.4	87	20	35	18	50	5.40	+0.70	1.37	17	0	16	4	18	9	n.	W. H. Estes
Unionville	Putnam	1,062	52	56.5	− 5.6	87	20†	33	10	52	5.14	−0.11	2.22	14–15	0	16	6	19	6	sw.	C. D. Wilson
Vandalia	Audrain	766	1	....	......	..	..	..	..	6	....	......	....	.....	.	..	..	..	..	......	H. G. McIntire
Warrenton	Warren	816	63	60.2[a]	− 4.7	88	20	35	11	55	3.12	−1.28	0.81	14–15	0	15	14	8	9	se.	W. T. Zimmerman
Keokuk, Iowa	Lee, Ia.	574	73	58.4	− 5.4	87	20	37	10	73	4.63	+0.70	1.55	14–15	0	14	6	15	10	n.	U. S. Weather Bureau
Division means	**and extremes**	.....	..	**58.7**	**− 4.8**	**90**	**31**	**31**	**5**	..	**4.79**	**+0.14**	**4.06**	**13–14**	**0**	**13**	**10**	**10**	**11**	**s.**	
Southwestern Division																					
Anderson ...1½ mi sw	McDonald	1,000	41	60.2	− 5.5	89	26	31	5	46	5.21	−0.54	1.41	9	0	9	13	7	11	nw.	Samuel G. Chamberlain
Appleton City	St. Clair	813	50	60.2	− 4.8	85	14	38	18	53	7.30	+2.50	2.93	24–25	0	13	9	4	18	nw.	Rolla Brown
Bolivar	Polk	1,071	42	61.7	− 3.1	86	14†	39	5	50	5.90	+0.55	1.93	16	0	14	8	11	12	sw.	Southwest Baptist College
Boonville	Cooper	650	7	59.4	......	87	20	40	10†	68	4.21	−0.40	1.04	16	0	11	7	9	15	se.	Boonville Water Dept.
Carthage	Jasper	962	11	63.0	......	88	14†	34	5	21	7.05	......	2.17	26	0	11	9	17	5	s.	Carthage W. and E. Plant
Clinton	Henry	786	52	61.1[d]	− 4.4	88	20	34[h]	10	58	7.96	+3.13	....	.....	0	10	2[b]	9[b]	18[b]	s.	U. S. Weather Bureau
Eldon	Miller	934	50	59.6[e]	− 4.6	87[e]	14	39[e]	11	46	7.15	+2.85	2.38	24–25	0	13	6[e]	7[e]	13[e]	n.	E. H. Shepherd
Fort Leonard Wood	Pulaski	1,107	4	61.7[a]	......	89[a]	19	41[a]	3†	4	6.21	......	1.13	23–24	0	12	13[d]	1[d]	13[d]	sw.	U. S. Army Medical Corps
Harrisonville	Cass	904	67	59.1	− 4.7	85	20†	37	4	70	6.22	+1.79	1.54	24	0	16	4	6	21	e.	John H. Patterson
Jefferson City	Cole	557	55	59.8	− 4.9	89	20	41	3†	63	7.12	+2.71	1.73	14–15	0	13	8	9	14	s.	Mrs. Frank Kliegel
Joplin	Jasper	1,008	23	63.6	− 2.7	87	14	42	5†	40	6.98	+1.62	2.92	25	0	9	16	3	12	se.	Empire Dist. Electric Co.
Lakeside	Miller	595	14	60.0	− 6.1	89	14	39	5	14	8.24	+3.97	2.50	28–29	0	12	7	11	13	sw.	W. S. Frame
Lamar	Barton	980	57	59.8	− 5.8	85	13†	35	5†	64	6.89	+1.63	1.72	25	0	10	9	13	9	se.	Mrs. Marie Mann
Lebanon	Laclede	1,265	57	59.2	− 5.7	88	14	38	5	58	5.36	+0.15	....	.....	0	17	6	12	13	se.	Mrs. Rosa E. Montelius
Lexington	Lafayette	688	60	60.6	− 3.8	88	20	40	10†	61	4.19	−0.77	1.25	16–17	0	12	13	0	18	......	Tilton Davis
Lockwood	Dade	1,078	39	63.6	− 0.8	90	26	39	8	49	7.42	+2.10	2.10	16	0	8	10	17	4	sw.	Hubert A. Nieman
Marshall	Saline	779	58	60.8[a]	− 3.4	89[a]	20	38[a]	10	55	5.54	+0.93	1.34	24–25	0	14	10[a]	11[a]	9[a]	s.	Thomas A. Reid
Mountain Grove	Wright	1,463	44	60.4	− 3.4	84	14†	37	5†	48	5.46	+1.00	1.15	28–29	0	15	10	12	9	se.	Mo. Fruit Exp. Station
Mount Vernon	Lawrence	1,174	33	61.0[c]	− 4.8	87[g]	14†	33	5	45	8.29	+2.78	2.36	17	0	10	10	10	11	s.	James C. Williamson
Neosho	Newton	1,011	58	63.9	− 2.1	89	14	32	5	62	7.74	+2.18	2.21	9	0	12	11	16	4	se.	U. S. Fisheries Station
Nevada	Vernon	862	52	63.0	− 1.5	87	14†	35	5	53	5.51	+0.58	1.92	16	0	12	14	4	13	sw.	Henry Kraft
Ozark Beach	Taney	700	5	62.5	......	90	14	36	5	20	5.81	+0.59	1.57	9	0	12	8	10	13	se.	Empire District Elec. Co.
Sedalia	Pettis	910	32	60.9	− 4.4	89	20	36	18	34	5.52	+0.98	2.10	24–25	0	12	13	6	12	nw.	Dr. J. E. Cannaday
Seligman	Barry	1,542	44	63.3[c]	− 1.2	87[c]	28	36[c]	5	42	6.92	+1.48	1.29	15–16	0	12	14[c]	8[c]	6[c]	s.	Floyd E. Fawver
Seymour 3½ miles NE	Webster	1,642	39	57.0	− 6.7	84	14†	34	5†	39	4.68	−0.15	1.18	25	0	14	16	5	10	s.	A. L. Hailey
Springfield.. ½ mile E	Greene	1,301	57	59.6	− 4.1	86	14	37	5	57	4.15	−1.04	1.15	16–17	0	14	5	12	14	se.	U. S. Weather Bureau
Sweet Springs	Saline	700	4	60.0	......	87	20	35	18	4	4.90	......	1.28	15–16	0	15	8	13	10	s.	H F. Nelson
Warrensburg	Johnson	878	58	61.4	− 3.6	86	14	40	4†	65	4.92	+0.20	1.64	16	0	15	11	6	14	nw.	Central Teachers College
Warsaw	Benton	687	44	62.4	− 3.1	88	14†	35	5	50	8.92	+3.92	2.95	29	0	14	11	11	9	se.	Dora B. Johnson
Wasola	Ozark	1,294	4	61.7	......	86	14†	39	11	5	5.51	......	1.25	14–15	0	13	12	8	11	s.	A. W. Pinckney
Division means	**and extremes**	.....	..	**61.0**	**− 4.0**	**90**	**14†**	**31**	**5**	..	**6.20**	**+0.98**	**3.28**	**29**	**0**	**12**	**10**	**9**	**12**	**s.**	
Southeastern Division																					
Advance.... ¼ mile W	Stoddard	354	8	61.4	......	87	31	39	8†	8	4.99	......	1.13	1	0	12	5	8	18	s.	U. S. Weather Bureau
Arcadia	Iron	926	64	60.0	− 4.1	88	31	34	11	67	4.46	+0.22	1.73	30	0	11	13	5	13	e.	Arcadia College
Birch Tree... ½ mile E	Shannon	1,000	50	60.6[d]	− 4.4	85[b]	20†	32[e]	9	51	4.51	+0.16	1.16	1–2	0	12	17[b]	7[b]	5[b]	sw.	R. C. Moger
Black.......9 miles NW	Iron	1,000	52	60.1	− 3.9	87	20†	31	11	52	4.05	−0.46	0.53	28	0	13	14	9	8	nw	Claude Volner
Campbell	Dunklin	314	19	65.6	− 1.7	90	31	42	11	19	8.93	+3.92	2.15	9–10	0	11	10	13	8	s.	Mrs. Ruth Christian
Caruthersville	Pemiscot	265	49	63.0	− 6.8	88	31	42	4†	53	5.60	+1.16	1.66	9–10	0	9	14	7	10	e.	Victor T. Malloure
Crystal City	Jefferson	420	11	62.1	− 3.1	90	20†	35	11	11	5.15	+0.99	1.46	28–29	0	15	5	9	17	se.	Richard K. Ragland
Doniphan	Ripley	344	41	63.8	− 2.7	89	31	36	5†	41	8.00	+3.64	2.45	9	0	10	19	3	9	e.	Boyce Lackey
Farmington	St. Francois	896	34	61.0	− 2.7	87	31	35	11	48	3.82	−1.25	1.04	28–29	0	16	6	8	17	s.	F. M. Karsch
Greenville	Wayne	460	36	62.4	− 3.5	88	31	35	8	38	4.62	+0.44	0.90	9–10	0	11	9	12	10	e.	Beuford Shoemake
Jackson‡	Cape Girardeau	428	54	64.0	− 1.6	89	31	36	2	55	5.08	+0.81	0.86	29	0	14	12	4	15	n.	John G. Putz
Koshkonong	Oregon	958	41	63.2	− 3.4	87	31	39	11	45	6.15	+1.60	2.49	9–10	0	11	11	6	14	se.	Mrs Genevieve T. Smith
Licking...... 4 miles N	Texas	1,170	8	61.0	......	85	14†	34	5	8	4.82	−0.31	1.44	1	0	7	13	9	9	n.	U. S. Forestry Service
Malden....4 miles NNW	Dunklin	292	2	63.9	......	90	31	42	11	2	6.88	......	2.38	7	0	12	6	4	21	s.	U.S. Weather Bureau

Continued on next page

Climatological Data for May 1945—Continued from preceding page

Stations	Counties	Elevation, feet	Temperature, in degrees, Fahr.							Precipitation, in inches						Number of days				Prevailing direction of wind	Observers
			Length of record, years	Mean	Departure from the normal	Highest	Date	Lowest	Date	Length of record, years	Total	Departure from the normal	Greatest in 24 hours ⁴	Date	Total snowfall, unmelted	With precip., .01 inch or more	Clear	Partly cloudy	Cloudy		
Southeastern Division—	*Concluded*																				
Marble Hill	Bollinger	532	50	63.0	− 2.6	88	31	37	6†	52	5.87	+1.38	1.09	28-29	0	13	12	11	8	s.	R. A. DeWitt
Poplar Bluff	Butler	339	40	63.3	− 4.2	89	31	39	6†	41	6.26	+1.74	1.86	9	0	8	15	9	7	s.	Joe Roehm
Rolla	Phelps	1,202	45	60.6	− 3.9	88	20	39	11	61	7.95	+3.20	2.82	24-25	0	10	9	10	12	sw.	Rolla School of Mines
St. Louis:																					
City Office	....	465	108	61.0	− 6.0	88	31	41	3	108	4.31	−0.03	2.79	14-15	0	15	4	10	17	s.	**Section Center**
St. Louis Airport	St. Louis	556	8	60.2	− 5.6	88	31	38	11	14	2.71	−1.21	1.10	14-15	0	14	3	16	12	w.	U. S. Weather Bureau
St. Louis University	St. Louis City	578	33	61.0	− 4.7	88	31	41	3†	33	4.35	+0.16	2.43	14	0	14	8	14	9	se.	St. Louis University
Salem	Dent	1,206	41	61.0	− 3.5	87	20†	38	8†	44	4.93	+0.42	1.20	25	0	12	10	11	10	s.	E. E. Martin
Sikeston	Scott	318	38	63.6	− 4.9	92	31	41	8†	48	6.68	+2.44	2.55	7	0	12	13	15	3	nw.	Mrs. Lucy W. Humphreys
Union 1½ mi. SE	Franklin	520	7	61.4	......	89	20	36	11	28	5.15	+0.61	1.66	14-15	0	13	13	5	13	nw.	Cornelius Sieges
Vichy 2 mi. NW	Marics	1,125	9	59.4	......	88	20	39	11	10	7.94	......	1.88	28	0	15	5	12	14	nw.	Civil Aeronautics Adm.
Wappapello Dam	Butler	475	6	62.2	......	87	31	32	3	6	4.70	......	1.34	1	0	11	11	11	9	sw.	U. S. Engineer Office
Weingarten	St. Genevieve	833	4	61.0	......	87	31	35	11	5	4.78	......	1.20	28-29	0	14	10	10	11	n.	William J. Miller
West Plains	Howell	1,005	8	60.6	......	87	31	37	5†	8	6.24	......	2.63	9-10	0	12	6	10	15	s.	U. S. Weather Bureau
Willow Springs 500 ft E	Howell	1,238	4	59.1	......	87	14	35	5†	38	5.47	+0.87	1.08	9	0	10	12	5	14	s.	Allen Frazee
Cairo, Ill.	Alexander, Ill.	314	73	64.0	− 5.4	90	31	43	11	74	6.94	+3.23	2.73	7	0	15	4	10	17	sw.	U. S. Weather Bureau
Division means	**and extremes**	.....	..	**61.8**	**− 3.9**	**92**	**31**	**31**	**11**	..	**5.50**	**+1.00**	**3.04**	**14-15**	**0**	**12**	**10**	**9**	**12**	**s.**	
State means	**and extremes**	.....	..	**60.5**	**− 4.0**	**92**	**31**	**31**	**5†**	..	**5.50**	**+0.71**	**4.06**	**13-14**	**0**	**12**	**10**	**9**	**12**	**s.**	

The departures from normal temperature are computed from the averages of the entire period for stations having 10 or more years of record. Departures of precipitation for stations with 15 years or more of record are computed from a normal or "standard mean", adjusted to a uniform 35-year period; for stations of 10 to 14 years the means for the period of record are used. The normal may be found by adding the departures when minus (−) or subtracting when plus (+). Figures and letters following stations indicate distance in miles and direction of station from the city Post Office, unless otherwise indicated. T. Trace or 0.005 inch or less. ᵃ, ᵇ, ᶜ, etc., number of days missing; for example, ᵇ, indicates two days missing. Italics data interpolated. § Partly interpolated. † And other dates. ‡ Received too late to be included in means and summaries. ⁴ Best available used for stations not equipped with recorders. Post office address of: Altona is Adrian; Crane Mountain is Arcadia; East End is Goodland; Eastwood Lookout is Van Buren; Ellsinore Lookout is Mill Spring; Farber is Laddonia; Hailey is Cassville; High Lookout is Birch Tree; Macedonia Lookout is Doniphan; Perry is Center; Pilot Knob is Ironton; Pineview Lookout is Duke; Sugar Camp Lookout is Cassville; Wilderness Lookout is Lampe.

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The cool wet weather during May was very unfavorable from an agricultural viewpoint, further delaying plowing and planting of field crops. Only about twenty-five percent of the intended corn crop had been planted at the close of the month. Wheat was showing the affect of too much moisture and lack of sunshine, and rust was developing in many fields. Oats and grass made good growth and progress, but needed warmer weather and more sunshine for best results. Frequent showers seriously interfered with the cutting and curing of alfalfa hay and much of this crop was ruined after being cut. Gardens and truck crops made only fair progress and were also in need of warmer and drier weather throughout much of May. Much fruit was knocked or blown off the trees, by hail and windstorms, in scattered localities. The outlook for a good crop year was very discouraging at the end of the month.—M. R. W.

TEMPERATURE

The monthly mean for the State, 96 stations reporting, was 60.5°, or 4.0° cooler than the 58-year May average. The highest monthly mean was 65.6° at Campbell, and the lowest was 56.5° at Unionville. The highest reported was 92° at Sikeston, on the 31st, and the lowest was 31° at Albany, Tarkio, and Anderson, on the 5th, and near Black, on the 11th.

PRECIPITATION

The average for the State, 214 stations reporting, was 5.50 inches, or 0.71 inch more than the 58-year May average. The greatest monthly amount was 9.24 inches at Maryville, and the least was 1.79 inches at Palmyra. The greatest amount reported in 24 hours was 4.06 inches, at Maryville, on the 13-14th. The average number of days with 0.01 inch, or more, was 12.

Snowfall was unimportant, with only two stations reporting snowfall, and the amounts were only a trace.

MISCELLANEOUS PHENOMENA

Earthquakes.—Slight, 2d, 20th.

Floods.—In Grand River, 15th to 31st. In Meramec River, 30th and continued into June. In Missouri River, below Hermann, continued from April to May 1st; May 25th and continued into June; in reach Waverly to Hermann, 16th to 22d; 24th to 29th. In Mississippi River, in reach Keokuk to New Madrid, in flood at one or more points from April and continued into June. In Osage River, continued from April to May 4th; May 6th, 8th, 29th and continued into June. In St. Francis River, at Fisk, continued from April into June.

Fogs.—Heavy, 2d, 9th, 10th, 12th, 13th, 14th, 15th, 16th, 17th, 18th, 22d, 26th, 29th, 30th, 31st.

Frosts.—Light, 5th, 6th, 8th, 18th.

Hail.—Light, 1st at Anderson; 2d at Chillicothe, Kansas City, Kirksville, St. Joseph, Steffenville, Unionville; 3d at Edina; 7th at Koshkonong, near Browning, Sikeston; 9th at Hailey and near Cassville; 13th at Brunswick and Conception; 14th at Amity, Auxvasse, near Browning, Columbia, Midway, Grant City, Lawson, Martinsburg, Maryville, New Florence, St. Joseph, Shelbina, Tarkio, Warrenton, Jefferson Barracks, Moselle, St. Louis and St. Louis County, Union, Vichy, Concordia, Swan Tower Lookout; 15th at Hannibal, Mexico, Anderson; 20th at Maryville; 24th at Appleton City, Caplinger Mills, Amity, Maryville, Rolla, Concordia; 25th at Kidder, Appleton City; 27th at Columbia, Midway; 28th at Rolla, Salem, Vichy, Butler, Vanzant; 29th at Caruthersville, Rolla, Swan Tower Lookout. Moderate, 2d near Browning; 7th at Lockwood; 14th at Fayette; 15th at Boonville; 28th at Pleasant Hill. Heavy, 14th, 24th, 25th, 28th, 29th, 31st. (See special hailstorm notes).

Sleet.—2d, 3d, 9th, 14th, 15th.

Windstorms.—9th, 14th, 20th, 21st, 24th, 29th. (See special windstorm notes).

HAILSTORMS

A heavy hailstorm occurred 8 to 15 miles northeast of Sweet Springs, on the 14th (time not reported). The storm came from the northwest, and covered a path 6½ miles long and 1½ miles wide. Stones were the size of marbles, with a few ½ to 1½ inches in diameter. Damage was severe to early gardens, but property damage was very slight. Amount of damage not reported. From 4:20 p. m. to 4:38 p. m. C. W. T., the same day, a light fall of hail occurred at Columbia, resulting in property damage estimated at $100. This storm came from the

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Daily Precipitation for May 1945

Stations	Drainage basins	Day of month																															Total
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Northern Division																																	
Albany	Grand	.64	.06	....	....	....	....	.95	....	.46	.05	....	....	.47	1.83	.47	.42	.37	....	.03	....	.35	....	.01	....	.60	.02	.75	T.	....	....	....	7.48
Amity[2]	do	....	.74	T.	....	....	....	.76	.05	.05	.20	....	....	.29	1.62	.43	.46	1.50	....	....	T.	....	.13	....	T.	1.06	....	....	.02	.12	.02	....	7.45
Auxvasse	Missouri	.19	.02	.08	....	....	....	.23	....	.03	.03	....	....	....	.90	1.10	1.18	.26	....	....	....	....	....	....	.51	....	....	....	.17	.02	....	....	4.72
Bethany	Grand	.45	....	....	....	....	....	.65	....	.54	....	....	....	.44	1.94	.24	.72	....	....	....	....	....	....	....	....	*.43*	....	*.39*	....	....	....	....	§5.80
Bowling Green[2]	Mississippi	....	.10	.12	.10	....	....	....	.51	....	.05	....	....	....	....	1.64	.07	.75	.07	....	....	....	....	....	....	.03	....	....	....	.10	....	....	3.54
Brookfield[2]	Grand	....	.36	....	....	....	....	.18	.14	T.	.05	....	....	.36	1.06	.04	T.	1.45	....	....	.03	.07	....	....	....	2.42	....	....	.44	....	....	....	6.60
Browning.....3 mi. NE	do	.22	.07	.02	T.	....	T.	1.19	....	.32	.04	....	T.	.18	.93	.09	.93	.09	....	T.	T	.07	.05	T.	....	.08	....	.04	.02	....	....	....	4.34
Brunswick[2]	do	....	.47	.08	T.	....	....	T.	.67	....	T.	....	....	.97	....	1.31	.04	1.38	.02	....	.03	.02	....	....	....	1.63	....	....	.76	....	....	....	7.38
Canton, Lock No. 20[2]	Mississippi	....	.11	.27	.08	.07	....	.02	.54	....	.28	....	T.	T.	T.	1.83	.09	1.19	.01	....	....	T.	T.	....	....	....	....	....	....	....	....	.05	4.54
Centralia[2]	do	....	.13	....	.09	....	....	....	.34	....	....	....	....	....	....	2.51	.07	1.48	....	....	....	....	....	....	....	.55	....	....	.22	.02	....	....	5.41
Chillicothe[2]......(A)	Grand	.45	T	....	.01	....	....	.24	.04	....	.20	....	....	.14	.91	.07	.09	.97	....	....	T	....	....	....	....	.59	....	....	.74	....	....	....	4.45
Chillicothe[2]......(B)	do	....	.43	.03	T.	....	....	.38	.15	....	.07	....	....	.28	1.19	.18	T.	1.14	....	....	T.	T.	T	....	T.	.43	T.	....	1.42	....	....	....	5.70
Clifton Hill	Chariton	.14	.04	.02	....	....	....	.53	....	.03	.05	....	....	.22	1.05	.10	.95	.50	....	.02	....	....	....	....	....	.98	....	.03	....	....	....	....	4.66
Columbia[1, 5]	Missouri	.38	.03	.22	....	....	T.	.44	....	.06	T.	....	....	....	.66	.04	1.34	.13	....	T.	....	....	....	....	.33	.02	....	1.70	.34	.11	....	....	5.80
Columbia ...9 mi. WNW	do	.34	.01	.04	.12	....	....	.47	....	.04	.01	....	....	T.	.86	.07	1.09	.24	....	....	....	....	....	....	.01	.35	....	T	.89	.15	....	....	4.69
Conception	do	.49	.04	....	....	....	....	1.02	....	.51	....	.11	....	.31	2.46	.58	.48	.30	....	T.	....	.47	T.	....	....	.51	T.	.15	.50	....	....	.26	8.19
Edgerton	do	.60	.10	....	....	....	....	.25	....	T.	....	....	....	....	1.20	.12	1.70	.25	....	....	....	....	....	....	T.	....	.25	.18	....	....	....	....	4.65
Edina[2]	Mississippi	....	.03	.27	T.	....	....	....	.68	....	.35	....	....	....	.08	1.24	.23	1.02	T.	....	....	....	....	....	....	....	....	....	....	....	....	....	3.90
Elsberry	do	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Elsberry S. C. S.[2]	do	....	.08	.09	.20	T.	....	.02	.23	....	.06	....	....	....	....	.80	.33	.36	T.	....	T.	....	....	....	....	....	....	....	....	.07	T.	.04	2.28
Farber[2]....... 1 mile N	do	....	.10	.07	.07	T.	....	....	.47	....	.05	....	....	....	....	1.90	.10	1.35	.04	....	....	....	....	....	....	.25	....	....	....	....	....	....	4.40
Fayette	Missouri	.20	.05	T.	....	....	....	.23	....	.03	....	....	....	.04	1.50	.01	.82	.30	....	T.	....	....	....	....	.03	.64	....	....	1.02	.28	....	....	5.15
Fulton[2]	do	....	.30	.04	.05	....	....	....	.79	....	.07	....	....	....	....	1.13	.38	.83	....	....	....	....	....	....	....	.71	....	....	.66	.42	.08	....	5.46
Gallatin[2]	Grand	....	.68	T.	....	....	....	T.	.69	.11	.26	....	....	.06	1.02	T	.20	1.10	....	....	....	.05	....	....	....	.20	....	....	.86	....	....	....	5.23
Grant City	do	.35	T.	....	....	....	....	.64	T	.47	....	T.	....	.27	3.53	.27	.45	.25	....	.03	....	*	.28	.02	....	.64	....	*T.	.32	....	....	.33	7.85
Hannibal[1].......(A)	Mississippi	.09	.15	.10	....	....	....	.68	....	.19	.01	....	....	....	.90	.09	.94	.06	....	....	....	....	....	....	....	....	....	....	....	....	....	....	3.21
Hannibal[2].......(B)	do	....	.12	.10	.10	....	....	....	.70	....	.35	....	....	.05	T.	.90	.18	1.10	T	....	....	....	....	....	....	....	....	....	....	....	....	....	3.60
Hermann[2]	Missouri	....	.40	.09	.03	.07	....	....	.70	....	.08	....	....	....	....	2.00	....	.64	.02	....	....	....	....	....	....	.40	....	....	....	.75	.18	....	5.36
Kahoka[2]	Mississippi	....	.08	.22	.12	....	....	.22	.60	....	.38	....	....	....	.16	1.25	.16	1.08	.08	....	....	....	T	....	....	....	....	....	....	....	....	.06	4.41
Kansas City Airport[1, 5]	Missouri	.54	.38	T	....	....	....	.49	....	.07	....	....	T.	....	.70	.04	1.84	T.	....	....	T.	T.	....	T.	.27	.50	.49	.08	.02	.13	....	....	5.55
Kansas City University	do	.55	.06	....	T.	....	....	.39	....	.12	T.	....	....	....	.72	.07	1.80	.09	T	....	....	....	....	....	.28	.66	.14	.01	.25	.25	....	....	5.39
Kidder[2]	Grand	....	.54	T.	.01	....	....	.45	.01	T.	.21	....	....	.22	1.37	.12	.21	1.29	....	....	....	....	....	....	....	1.13	....	....	.42	....	....	T.	5.98
King City	Missouri	....	....	....	....	....	....	.66	....	.22	....	.56	....	.22	2.00	.32	1.00	.30	....	....	....	....	....	....	.17	.19	....	....	.25	....	....	....	5.89
Kirksville	Mississippi	.08	.17	.06	....	....	T.	.98	....	.26	.13	....	T.	....	1.27	.17	.73	.38	....	T.	....	....	.19	T.	....	T	....	.05	....	....	....	....	4.47
Knoxville[3]	Missouri	.53	.04	T.	....	....	....	.41	....	.01	....	....	....	....	.74	.02	1.39	T.	....	....	T.	T.	....	T.	.12	.37	.03	.30	T.	.03	....	....	3.99
La Belle[2]	Mississippi	....	....	.35	T.	....	....	....	.50	....	.30	....	....	....	T	1.23	.25	1.30	T.	....	....	....	....	....	....	....	....	....	....	....	....	....	3.93
Lawson	Missouri	.53	.07	.03	....	....	....	.48	....	.02	T.	....	....	....	1.03	.03	1.72	.05	....	T.	....	....	....	T.	T.	.33	T	.14	.27	.02	....	T.	4.72
Linneus[2]	Grand	....	.45	....	....	....	....	*	.71	....	.25	....	....	.38	.97	T.	*	.98	....	....	....	....	....	....	....	2.70	....	....	.27	....	....	....	6.71
Louisiana[2].......(A)	Mississippi	....	.08	.19	.05	....	....	....	....	....	.53	....	....	....	....	1.13	.12	.87	.04	....	....	....	....	....	....	....	....	....	....	....	....	....	3.01
Louisiana[2].......(B)	do	....	.07	.11	.08	.01	....	....	.51	....	.07	....	....	....	.02	1.16	T.	.97	.08	....	....	....	....	....	....	....	....	....	....	....	....	....	3.08
Lucerne[2]	Grand	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Macon[2]	Chariton	....	.24	.02	T.	....	....	....	.64	....	.09	....	....	.23	....	.89	.03	1.73	....	....	....	....	....	....	....	.13	....	....	.03	....	....	....	4.03
Madison[2]	Mississippi	....	.10	.20	.10	....	....	.26	....	.12	....	....	....	....	1.25	.08	1.65	....	....	....	....	....	....	....	.40	....	....	....	....	....	....	....	4.16
Martinsburg[2]	Missouri	....	.10	.05	.10	....	....	T	.29	....	.06	....	....	T	....	1.37	.12	1.32	T.	....	T.	T.	T.	....	....	.29	....	....	T.	.15	.03	.01	3.89
Maryville	do	.37	T.	....	....	....	....	.83	....	.62	.07	....	....	.33	3.99	.10	.34	.17	....	.08	....	.72	.02	T	....	.60	.01	.48	....	....	....	.51	9.24
Memphis[2]	Mississippi	....	.14	.15	T.	....	....	....	.54	....	.29	....	....	....	.35	1.29	.15	.69	T.	....	....	....	.12	....	....	....	....	T.	....	....	....	.24	3.96
Mexico[2]	do	....	.07	.03	.04	....	....	.27	.39	....	.10	....	....	....	....	2.90	.09	1.44	.01	....	....	....	....	....	....	.45	....	....	.10	.03	.42	....	6.34
Milan[2]	Grand	....	.19	.06	....	....	....	....	.65	....	.38	....	....	.16	1.18	.10	.16	1.14	....	....	....	....	.15	....	....	.04	....	....	.06	....	....	....	4.27
Moberly[2] ....3½ mi. NE	Mississippi	....	.07	.04	.16	....	....	....	.30	....	.04	....	....	....	.04	.87	*	.09	1.60	....	....	....	....	....	....	.43	....	.12	....	....	....	....	3.76
Monroe City	do	.11	.22	.07	....	....	....	.79	....	.11	....	....	....	.14	.66	.86	1.03	.08	....	....	T.	T	....	T.	....	.03	....	T.	T.	....	....	....	4.10
New Florence[3, 5] 1 mi SE	Missouri	.22	.03	.08	T.	....	.14	.67	....	.05	T.	....	T	....	.88	.02	.61	.12	....	T.	....	T.	....	T.	.16	.13	....	T	.01	.05	T.	T.	3.17
Oregon	do	.78	....	....	....	....	....	1.05	....	1.28	.04	....	....	.40	1.78	.02	.90	....	....	T.	....	.62	T.	....	....	.58	.10	.13	....	.13	....	....	7.81
Palmyra	Mississippi	....	....	....	....	....	....	....	....	.10	.05	....	....	.11	.13	.80	.60	T.	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1.79
Paris[2]	do	....	.12	.15	.07	....	....	....	.74	....	.07	....	....	.01	....	1.47	.10	1.34	.01	....	....	.01	....	....	....	.23	....	....	T.	....	....	....	4.32
Perry .....1 mile E	do	.05	.07	.25	....	....	....	.65	....	.05	....	....	....	....	.55	.72	1.20	.15	....	....	....	....	....	....	....	.15	....	....	....	....	....	....	3.84
Philadelphia[2]	do	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
St. Charles[2] .....(A)	Missouri	....	.27	....	....	.08	....	.08	.20	....	.08	....	....	....	....	.87	.37	.20	.02	....	....	....	....	....	....	.03	....	....	....	.15	....	....	2.35
St. Charles[2] ......(B)	do	....	.22	.01	.18	.09	....	....	.36	....	.08	T.	....	....	....	.91	.12	.44	.04	....	....	....	....	....	....	.03	T.	....	....	.16	.01	.01	2.66
St. Joseph[1, 5]	do	.69	.18		....	....	....	.48	....	.16	....	....	....	.52	1.19	.12	1.11	....	....	....	T.	T.	....	.01	.55	.18	.02	.03	....	.01	....	....	5.25
Saverton, Lock No. 22[2]	Mississippi	....	.10	.10	.08	....	....	....	.65	....	.09	....	....	.08	T.	.96	.10	1.12	....	....	....	....	....	....	T.	.01	....	....	....	....	....	....	3.29
Shelbina	do	.16	.07	.04	....	....	....	.43	....	....	....	....	....	.33	1.01	.26	1.30	.35	....	....	....	....	....	....	....	.10	....	*T.*	....	....	....	....	4.05
Shelbyville[2]	do	....	.18	....	.23	....	....	....	.28	....	.52	....	....	.28	....	.68	....	1.53	....	....	....	....	....	....	....	.06	....	....	....	....	....	....	3.76
Steffenville	do	.06	.23	.04	.03	....	....	.54	....	.24	.10	....	T.	.01	.72	.53	1.15	.22	....	T	....	....	....	....	....	....	....	....	....	....	....	....	3.87
Tarkio[3]	Missouri	....	....	....	....	....	....	.33	....	....	.66	T.	T.	1.52	.95	.03	.03	....	....	.09	.22	.50	....	T.	.02	1.09	.01	.17	....	....	....	.30	5.92
Trenton[2]	Grand	....	.41	.04	.01	....	....	.48	.01	.06	.37	....	....	.32	1.02	.12	.28	1.37	....	....	.03	....	....	....	.28	....	....	.02	.58	....	....	....	5.40
Troy[2]	Mississippi	....	.14	.01	.11	....	....	.13	.35	....	.06	T.	....	....	....	1.10	.02	.75	.20	....	....	T.	....	....	....	.03	....	....	....	.22	.13	....	3.25
Unionville[2]	Chariton	....	.12	.03	.06	....	....	.20	.68	....	.37	....	.02	.01	.45	2.22	.08	.58	....	....	....	.05	.02	....	....	.22	.03	T.	....	....	....	....	5.14
Vandalia	Mississippi	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Warrenton	do	.19	.09	.15	.04	T.	....	.42	....	.10	.03	....	....	....	.35	.81	.45	.17	.02	....	....	....	....	....	....	.15	....	....	.03	.12	T.	....	3.12
Keokuk, Iowa[1]	do	.24	.14	.08	.05	....	.28	1.05	....	.26	.01	....	T.	T.	1.30	.37	.53	.06	....	....	....	T.	T.	T.	....	.01	....	T.	....	T.	....	.25	4.63
Southwestern Divis																																	
Altona[2]	Osage	....	.57	.11	....	....	....	.05	.45	....	.11	....	....	....	....	T.	.75	.60	....	....	....	....	....	....	....	3.05	....	.11	....	1.29	.53	....	7.62
Anderson[2] ...1½ mi. SW	Neosho	....	.14	T.	T.	....	....	.70	T.	T.	1.41	....	.04	....	....	1.04	1.20	.12	....	....	....	....	....	....	....	....	.14	.42	....	T.	....	....	5.21
Appleton City	Osage	.70	.18	....	....	....	....	.18	....	.10	....	....	....	....	.05	....	1.60	....	....	....	....	....	....	....	2.15	.78	*	.10	.50	.50	.46	....	7.30
Ava Ranger Station[2]	White	....	.35	....	....	....	....	.30	.15	T.	1.95	....	....	....	....	1.15	.65	....	....	....	....	....	....	....	....	.90	....	....	....	.45	.25	....	6.15
Bolivar	Osage	.32	.07	....	....	....	....	.61	.02	.37	....	....	....	....	....	.02	1.93	.02	....	....	....	T.	....	....	.27	.84	....	.30	.05	.07	1.01	....	5.90
Boonville[2] ......(A)	Missouri	....	.25	.02	....	....	....	....	.44	....	.12	....	....	....	....	.74	.10	1.04	....	....	....	....	....	....	....	.84	....	....	.28	.35	.03	....	4.21
Boonville[2] ......(B)	do	....	.32	....	....	....	....	....	.33	....	.09	....	....	....	....	.73	.01	.85	....	....	....	....	....	....	....	.82	....	....	.26	.17	.22	....	3.80
Bradleyville[2]	White	....	.35	....	....	....	....	.65	.20	.05	2.75	....	....	....	....	1.45	.55	T.	....	....	....	....	.25	....	....	.50	T.	....	....	.25	.30	....	7.30
Buffalo[2]	Osage	....	.89	....	....	....	....	.37	.17	....	.36	....	....	....	....	.40	.43	.93	....	....	....	....	....	....	....	.74	....	.24	....	.20	1.17	....	5.90
Butler[2]	do	....	.42	.12	T.	....	....	.15	....	.03	.05	....	....	....	.01	.01	.64	.76	....	....	....	....	....	....	....	1.36	....	.11	....	.57	.45	....	4.68
Caplinger Mills[2]	do	....	.41	.15	T	....	....	.21	.12	.07	.29	....	....	....	....	T.	1.10	.56	....	....	....	....	....	....	....	1.90	....	.26	....	.12	1.10	....	6.29
Carthage	Neosho	.24	.33	....	....	....	....	.20	....	.60	....	....	.03	....	....	.04	1.80	.02	....	....	....	....	....	....	....	1.45	....	2.17	....	....	.17	....	7.05
Cassville[2]	White	....	.39	.10	....	....	....	.70	.05	....	1.20	....	....	....	....	.49	1.46	.10	....	....	....	....	.06	....	....	2.06	....	.76	.07	....	.15	....	7.59
Clinton[3]	Osage	....	....	....	....	....	....	1.69	....	.14	....	....	....	....	.03	T.	1.54	....	....	....	....	....	....	T	1.59	.59	.04	T	.58	1.61	.15	....	7.96
Concordia	Missouri	.47	T	....	....	....	....	.31	....	.10	*.05*	....	....	....	*	1.05	*	1.26	....	....	....	....	....	....	.54	.06	....	.06	.06	.88	....	....	§4.84
Crocker	Osage	.75	.02	.05	.05	....	....	.53	....	.43	.05	....	....	....	....	.08	.67	.06	....	....	....	....	....	....	.12	1.33	....	....	.44	.73	.83	....	6.14
Eldon	Missouri	.38	.03	.02	....	....	....	.72	....	.10	....	....	....	....	....	1.32	.90	.12	....	....	....	....	....	....	.40	1.98	....	....	.52	.57	.09	....	7.15
Eldorado Springs	Osage	.44	.20	T.	....	....	....	.45	.02	.31	....	....	....	....	T.	T	1.93	.12	....	....	....	....	....	....	.79	.86	....	.25	.14	.45	.70	....	6.69
Elijah[2]	White	....	.35	....	....	....	....	....	.39	....	1.53	....	....	....	....	1.30	.63	....	....	....	....	....	....	....	....	.47	.15	....	....	.20	....	....	5.02
Fort Leonard Wood[2]	Gasconade	*	1.12	.03	....	....	....	.25	.12	....	.33	....	....	....	....	.25	.58	....	....	....	T.	....	....	....	1.13	....	....	.22	1.10	1.08	T.	....	6.21
Galena[2]	White	....	.38	.09	....	....	....	.51	.09	....	1.90	....	.02	....	....	.60	1.01	.10	....	....	....	....	....	....	....	1.03	....	.71	....	....	.29	....	6.73
Granby[2]	do	....	.60	.20	....	....	....	.28	....	....	2.45	....	.02	....	....	.30	1.50	.15	....	....	....	....	T	....	....	2.35	....	1.00	....	....	.05	....	8.90
Hailey	do	.47	.13	.08	....	....	....	.84	....	1.42	T.	....	....	....	....	.67	1.39	....	....	....	....	.31	....	....	....	1.37	....	.58	T.	.79	....	....	8.05
Harrisonville[2]	Osage	....	.68	.01	....	....	....	.12	.28	....	.16	....	....	....	.10	.04	.70	.83	....	....	....	.02	....	....	.04	1.54	....	.06	.29	1.04	.31	....	6.22
Jefferson City[2]...(A)	Missouri	....	.30	.03	.09	....	....	.42	.81	....	.12	....	....	....	....	1.73	.08	1.20	....	....	....	....	....	....	....	1.30	....	....	.21	.34	.46	....	7.12
Jefferson City[2]...(B)	do	....	.31	.05	.07	....	....	.27	.86	....	.10	....	....	....	....	1.71	T.	1.22	T.	....	....	....	....	....	....	1.23	....	....	.22	.15	.46	.03	6.71
Joplin[1]	Neosho	.36	.25	T.	....	....	....	.38	....	.75	....	....	....	....	....	.23	1.30	....	....	....	....	....	....	....	....	2.92	.71	....	....	....	.08	....	6.98

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Daily Precipitation for May 1945—Continued from preceding page

Stations	Drainage basins	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Total
Southwestern Division—	*Concluded*																																
Lakeside[2, 5]	Osage		.45	.05	T.			.30	.28	T.	.15					.62	.39	.58			T.					2.40			T.	2.50	.50	.02	8.24
Lamar[2]	Neosho		.27	.15				.60	.03		.54						.87	.90								1.72		1.29			.52	*T.*	6.89
Lebanon[2]	Osage	*	1.44	.10	.02			.13	.25		.33					.05	.32	.54	.02							.90	.07	.05		.07	1.02	.05	5.36
Lexington[2]	Missouri		.40						.20	.30	.08					.70	.25	1.25								.70		.15	*	.08	.08		4.19
Lockwood	Osage	.33	.25	T.				1.04		.40					T.		2.10									1.60		1.37			.33		7.42
Mansfield[2]	White		.39	.01				.17	.07		1.22					.77	.56	.25								.90	.13	.04		.99	.26	.17	5.93
Marshall	Missouri	.27	.02	*T.*				.30		.04		.01			.39	.52	.99	.34		T.				T.	*	1.34			.63	*	.69		5.54
Marshfield[2]	White		.58	.03	.02			.31	.01		.45					.06	.58	.16								1.20		.11		.05	.26		3.82
Mountain Grove[2]	Gasconade		.76	.06				.27	.09		1.04		T.	T.		.64	.13	.28	.01				.15			.65	.13			1.01	.14	.10	5.46
Mount Vernon[2]	Neosho		.24				.40				.72					.20	2.00	.25	2.36							.90		.97			.25		8.29
Neosho	do	.37	.17	.01				.32		2.21			.01			.57	1.41					.02				1.73		.91			.01		7.74
Nevada	Osage	.38	.12	T.				.33	.03	.30					T.		1.80	.12								1.38		.39	.10	.04	.52		5.51
Osceola[2]	do		1.10	.14				*	.20	T.	.13					*	1.25	.67								2.23			.40	.63	.75		7.50
Ozark[2]	White			.16				.26			1.13					.32	.74	.81								.87	.17						4.46
Ozark Beach[2]	do			.05				.30	.10		1.57					1.27	.54	.02				.08				.81		.22		.05	.80		5.81
Pierce City[2]	Neosho		.37	.22				.36	T		1.80		T.				2.00	.33								1.30		2.26			.03		8.67
Pineview Lookout	White																																....
Pleasant Hill[2]	Osage		.66	.03	T.			.17	.20		.17					.90	.57	1.03							.06	1.10		.06	.01	1.15	.40		6.51
Roby	Gasconade	1.50	.04	T.				.30		.39	T					.20	.42	.04			T.	.04			T.	.74			T.	.56	.62		4.85
St. Thomas[2]. 2¼mi SW	Osage		.39	T.	T.			.27	.65		.13					.72	.42	.61								1.98				.70	.46	T.	6.33
Saunders Lookout[2]	White							.80	.15		1.95				.98	.50	.05									.65		.18		T.	.15		5.41
Sedalia	Missouri	.43	.17					.64		.15						.03	*	1.15							.06	1.44		*T.*	.22	.52	.11		5.52
Seligman[2]	Neosho		.53	.16				.70	.18		1.06					.85	1.23	.06					.10			1.05		.88	.12				6.92
Seymour[2]....3½ mi. NE	White		.49					.44	.04		.74					.25	.60	.13					.04			.90	.28	.31		.15	.02	.29	4.68
Shell Knob[2]...3 mi. SE	do		.35					.38	.18	.10	*					.65	1.05	.03					T.			1.26		.74		.03			4.77
Siloam Sprgs Lookout[2]	do		.53						.77		1.92					1.08	.08									.60	.12			T.	T.		5.10
Springfield[1, 5]...½ mi. E	do	.32	.04	T.				.39		.59	.01	T.	.01		.07	.04	1.14	.02				T				.94	.25		T.	.03	.30		4.15
Stover[2]	Missouri		.34					.15	.48		.12					*	.54	.48								2.26			*	.74	.48		5.59
Swan Tower Lookout[2]	White		.35					.60	.27		2.00	.10				1.45	.50						.15			.50	.10	.18		.30	.40		6.90
Sweet Springs	Missouri	.46	.11	.02				.27		.11	.04				.18	.19	1.28	.22							.78	.16		.25	.15	.68			4.90
Tecumseh[2]...¼ mi. W	White		.30					.22	.70		2.08					1.50	.05	.55					.48				.51	*T.*		.19			6.58
Topaz[2]	do		.64					.80	.20		1.16					.90	.39						T.			.73				1.30	.24		6.36
Vanzant[2]....3¾ mi. SE	do		.67					.33	.44		1.25					.99	.32	.06								.85	.17			1.10	.14	.07	6.39
Warrensburg	Missouri	.49	.13		T.			.63		.13	.03				.01	.01	1.64	.04							.52	.32		.09	.25	.58	.05		4.92
Warsaw[2]........(A)	Osage		.67	.10				.11	.88	.03	.10					T.	.60	.88							.03	1.70		.37	.02	2.95	.48		8.92
Warsaw[2]........(B)	do		.76	.08				1.02	.12							*	*	1.58								1.73		.22		3.28	.15		8.94
Wasola[2]	White		.41		T.			.67	.33		.27					1.25	.64	.20					.21		.39	.11		.03		.69	.31		5.51
Waverly[2]	Missouri		.31					.06	.21							.75	.15	1.02	T.							.50							3.00
Wilderness Lookout[2]	White		.16					.88	.20		.63		.03			.83	.96	.02								1.59	T.	.82		.06			6.18
Southeastern Division																																	
Advance[3].....¼ mile W	St. Francis	1.13	.14	T.	.01			1.01	T.	.88	.03				.60	.31	.17	T.	T.			T.				.39			.02	.30	T.		4.99
Alton(1)....10 miles SE	Black	.46	.20					.80		2.12	.25		.02			.62	.36									.47				.10	.18		5.58
Alton(2)[2]...7 miles NE	do																																....
Annapolis[2].....7 mi. W	do		.84	T.	.02				.46		.75					.38	.10	.11	T.							.43	.04			.37	.16	.36	4.02
Arcadia[2]	St. Francis		.90						.22			.35				.25	.20	.10								.28	.28			.15	1.42	.31	4.46
Belleview[2]	Meramec		1.02	.05	.04	T.			.24	.03	.24					.20	.04	.21	T.				T.			.60	.06			.73	1.44	.44	5.34
Bernie[2]	St. Francis		1.41	.24	.21				2.43		2.29					.51	.42	.26									.38				.24		8.39
Birch Tree[2]...½ mile E	Black		1.16	.02	.03				.57		1.09					.62	*	.10								.57	.04	T.		.30		.01	4.51
Black...... 9 miles NW	do	.50	.42	.09		.05		.24		.30	.04					.24	.35									.44			.53	.46	.39		4.05
Bloomfield[2]	St. Francis		1.29	.28	.09	.04			2.27		.94					.31	.28	.14									.43			.06	.03		6.16
Bunker[2]... 4 miles NW	Black		.83	.17					.45		.59					.44	.36									.39				.79	.23	.35	4.60
Campbell	St. Francis	.65	.97	T		T.		2.11		1.10	2.15		.01			.72	.05									.68				.35	.14		8.93
Cape Girardeau[2]	Mississippi		1.00	.09	.04	.14			.61		.53					.51	.17	.09	T.				.02				.30			.14	.74	.09	4.47
Caruthersville[2]	do		1.24	T.	T.				.77		1.66		T.	.06		.08	.18	.03									.95				.63		5.60
Centerville(1)[2]	Black		.90	.04	.02	.02		.21	.08		.52					.37	.06	.18								.46				.71	.25	.37	4.19
Centerville(2)[2]	do		.92	.06	.03	T.			.31		.60					.35	.07	.18								.43	.05			.83	.27	.36	4.46
Cook Station[2]	Meramec		.65	.20					.37		.30					.10		.35								1.58			.60	.56	1.08		5.79
Crane Mountain[2]	St. Francis		.80	.13		.02		.21	.24		.62					.44	.05	.02								.45				.46	.21	.29	3.94
Crystal City	Mississippi	.25	.37	.19				.24		.15	.06				*T.*	.70	.08	.07	.02			.02				.93			.42	1.46	.19		5.15
Cuba	Meramec	*	.40	.06	.03	.02	.04	.37		.33	.10				.06		.10	.05				T.				1.22			.91	1.77	.35		5.81
Deering[2]	St. Francis	1.17	.09	T.				.60		1.40		.06			.12	.19	.12									1.04				.52			5.31
De Soto[2]	Mississippi		.58	.11	.19	.06			.56		.19					.61	.07	.11	.06							1.05				2.35	.37		6.31
Dexter[2]	St. Francis		1.31	.34	.03	.06			2.00		1.57			.04		.19	.23	.28	T.								.32				.04		6.41
Doniphan(1)	Black	.61	.63					1.20		1.70	.75					.97	.23									.55				*	1.36		8.00
Doniphan(2)[2]	do		1.10						1.33		2.00					.56	.38	.15								.55	.05				1.05		7.17
East End[2]	Meramec		1.08	.10					.21	.02	.24					.26		.30								.81			.12	.78	1.15	.43	5.50
Eastwood Lookout[2]	Black		1.30	.10				.33	.33		1.42					.41	.36	.10								.09				.15			4.59
Ellington[2]	do		1.13	.21	T.				.50		.82					.49	.21	.21								.53	T.			.57	.08	.09	4.84
Ellsinore Lookout[2]‡	do		1.20	.24	.12				.40	*	1.05					.40	.30	.24									.28						4.23
Farmington[2]	St. Francis		.86	.03	.08	.13			.25		.26					.11	.08	.10	.02				.01			.15	.32			.25	.79	.38	3.82
Fisk[2]	do		1.57	.09	T.				1.91		.89					.26	.54	.06								T.	.10			.04	.11		5.57
Fredericktown[2]	do		1.08	.03	.02	.03			.27		.30					.14	.09	.11	T.							.15	.16			.19	1.25	.15	3.97
Gerald[2]	Meramec		.38	*T.*	.15				*T.*		.44					1.95	.05	.18								1.03			.08	1.97	.40	T.	6.63
Greenville(1)	St. Francis	.53	.70	T.				.51		.70	.20					.49	.56						.11			.43			.03	.36			4.62
Greenville[2](2)	do		1.15	.12	.02				.55		1.02					.32	.30	.15					.10			T.	.35			.02	.17		4.27
High Lookout[2]	Black		1.06	T.	.01			.37	.36		1.17					.84	.50	.03								.69	.03	T.	.14	.04	.02		5.26
Jackson	Mississippi	.55	.67	.07	.11		.59			.40	.11				.53		.29	.04								.38			.37	.86	.11		5.08
Jefferson Barracks[2]	Mississippi		.35	.03	.22	.10			.20		.14					2.75	.12	.13	.08				T.			.21				.68	.05	.08	5.14
Jerome[2]	Gasconade		.58	T.	.11			.42	.11		.41					.17	.22	.14								1.66				1.76	.99		6.57
Koshkonong[2]	Black		.46	.01	T.				.65		2.49			T.		.80	.43	.39					.01			.69	.18				.04		6.15
Leeper[2]	do		1.37	.03	.03				.78		1.08					.40	.18	.19					.32			.59	.14			.04	.10		5.25
Licking(1)... 4 miles N	Gasconade	1.44		T.				.44		.40						T.	.47									.74				.92	.41		4.82
Licking(2)[2]	do		1.67						.31		.45					.19	.05	.43					.02			.80	.03				.10	.39	4.44
Macedonia Lookout[2]	Black		1.08	.05				*	1.35		2.04					.45	*	.56													.70		6.23
Malden[3]...4 miles NNW	Mississippi	1.30	.11	T.	T.			2.38		1.63	.40	T.	.01		.10	.47	.06				T.					.33			.02	.07	T.		6.88
Marble Hill	do	.23	.83			.14		.67		.59	.21					.44	.50					.19				.25			.54	1.09	.19		5.87
Meramec Park[2]	Meramec		.49	.05	.09	.06			.30		.22					1.41	.09	.16	.08							.98			.03	1.34	.38	.27	5.95
Morehouse	Mississippi	.22	.99	.18				2.71	.05	.34	.90		.04			.41	.71									.28				.25			7.08
Moselle[2]	Meramec	.57	T	.07	.11	.07			.30		.03					1.36	.11	.29								.70				1.58	.36	.08	5.63
New Madrid[2]	Mississippi		1.42	.35	T.	.10			1.80		2.55			T.		.15	.12	.51					T.				.22			T.	T.		7.22
Oates Tower[2]	Black		.98	.21	.05				.25		.50						.80	.30								.20				.40	*.35*	*.37*	§4.41
Owensville[2]	Gasconade		.35	.11	.13				.36		.15					1.35	*	.40								1.00			.18	1.26	*	1.10	6.39
Pacific[2]	Meramec		.40	*.03*	*.08*	*.06*			*.19*		*.17*				1.42	*.14*	.29	*.03*								*.55*				1.82	*	.28	§5.46
Parma[2]	St. Francis		1.35	.18		.03			2.20		2.18		.05			.24	.28	.05									.60				.11		7.27
Perryville	Mississippi		1.00					.41		.21						.20	*	.35								.28			.11	.43	.35		3.34
Pilot Knob[2]... 2 mi. NE	St. Francis			.40	.61			.15	.12	.15						.18	.10									.48				1.56	.63		4.38
Poplar Bluff[2]....(A)	Black		1.34	.04					1.70		1.86					.37	.42										.47			.06	T.		6.26
Poplar Bluff[2]....(B)	do		1.32	.11	.01				1.60		2.18			T.		.33	.44	.06					.01			T.	.42			T	.17		6.65
Puxico[2]	St. Francis		1.42	.29	.01	T.			.76		1.13					.39	.22	.02	T.	T.			.02			.20	.45			.02	.01		4.94
Qulin[2]	do		1.36	.36					2.00		2.72					.41	.25	.01								.25	.20			.06	.20		7.82
Reynolds[2]	Black		1.01		.07				.36		.64					.48	.30	.10								.49				.88	.14	.44	4.91
Richwoods[2]	Meramec		.50	.21	T.	.20			.31		.22	T.				.62	*.12*	*.15*								1.10				1.72	.65		§5.80

Continued on next page

Daily Precipitation for May 1945—Continued from preceding page

Stations	Drainage-basins	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Total
Southeastern Division —	*Concluded*																																
Rolla[2]	Meramec	....	.57	T.	T	....	....	.22	.20	T.	.42	....	....	....	....	.20	.40	.12	T.	....	....	....	T.	....	....	2.82	....	....	T.	2.20	.80	....	7.95
Round Spring[2]	Black	....	1.29	.12	....	....	....	....	.45	....	.85	....	....	....	....	.48	....	.25	....	....	....	....	....	....	....	.49	....	....	....	1.64	.49	....	6.06
St. Louis:																																	
City Office[1], [5]	Mississippi	.25	.05	.09	.22	....	....	.08	....	.08	.02	....	T.	....	2.77	.02	.32	.03	....	....	T.	.05	....	T.	....	.12	....	....	.18	.03	T.	....	4.31
Airport[3], [5]	Missouri	.19	.10	.18	.06	....	T.	.30	....	.07	T.	....	....	....	1.02	.08	.45	.08	....	....	T.	T.	....	T.	....	.07	....	T.	.08	.02	.01	....	2.71
St. Louis Univ.[1], [5]	Mississippi	.28	.04	.14	.20	....	....	.42	....	.10	.04	....	....	....	2.43	.03	.34	.02	....	....	....	....	....	....	....	.15	....	....	.14	.02	....	....	4.35
Washington Univ.[2]	....do	....	.29	.07	.23	.14	....	....	.40	....	.12	....	....	....	....	1.75	.30	.19	.05	....	....	....	....	....	....	.11	....	....	....	.20	.02	....	3.87
Salem[2]	Meramec	....	.96	.06	.08	....	....	....	.27	....	.28	T.	....	....	....	.22	....	.24	T.	....	....	....	....	....	....	1.20	....	....	.20	.59	.38	.45	4.93
Sikeston[2]	Mississippi	....	.97	.26	.03	.02	....	....	2.55	....	.95	T.	....	.02	....	.13	.24	1.00	T.	T.	....	....	....	....	....	....	.31	....	....	T.	.20	T.	6.68
Steelville[2] ...2½ mi. NE	Meramec	....	.56	.08	....	....	....	....	.48	....	.49	....	....	....	....	.09	.20	.04	....	....	....	....	....	....	....	1.30	....	....	....	1.35	.84	*T.*	5.43
Summersville[2]	Black	....	1.18	T.	.10	....	....	....	.46	....	1.18	....	....	....	....	.58	....	.26	....	....	....	....	....	....	....	.78	.03	....	....	.38	.40	.08	5.43
Union ....1½ mi. SE	Meramec	.44	.02	.04	.08	....	....	.20	....	*	.15	....	....	....	....	1.66	.33	.03	....	....	....	....	....	....	....	.54	....	....	1.30	.36	....	....	5.15
Valley Park[2]	....do	....	.38	T.	.12	.03	T.	....	.10	....	.15	....	....	....	....	1.99	.20	.10	....	....	....	....	T.	....	....	.13	....	....	....	.67	.05	.10	4.02
Van Buren[2]	Black	1.30	T.	....	....	....	....	....	.53	....	1.38	....	....	....	.40	.60	.40	.15	....	....	....	....	.12	....	....	.60	....	....	....	.25	....	....	5.73
Vichy[3] .....2 miles NW	Meramec	.53	.06	.02	....	....	....	.38	T.	.29	T.	....	....	....	.50	.04	.61	.07	....	....	T.	.02	....	....	1.14	.73	....	T.	1.88	1.39	.28	....	7.94
Wappapello Dam[2]	St. Francis	....	1.34	.29	.01	....	....	....	.56	....	1.28	....	....	....	....	.41	.22	.18	T.	....	....	....	T.	....	....	.35	.04	....	....	.02	T.	....	4.70
Webster Groves	Mississippi	.23	.11	.20	T.	.08	....	.28	....	.09	.03	....	....	....	.09	2.95	.40	.12	T.	....	....	T.	.14	....	....	.14	....	....	.24	.37	.04	....	5.51
Weingarten	....do	.05	.90	.10	*	.10	....	.50	....	.16	....	....	....	....	....	.30	.50	.10	....	....	....	....	....	....	....	.67	....	....	.15	1.05	.20	....	4.78
West Plains[3]	Black	.50	T.	T.	....	....	....	.56	....	2.43	.20	T.	.01	....	.43	.76	.45	....	....	....	....	.05	....	....	....	.82	.02	....	T.	.01	....	....	6.24
Williamsville[2]	....do	....	1.86	.22	....	....	....	....	1.08	....	.96	....	....	....	....	.48	.27	.36	....	....	....	....	....	....	....	....	.36	....	....	....	....	....	5.59
Willow Springs[2] 500 ft E	White	....	.69	....	....	....	....	....	1.00	....	1.08	....	....	....	....	.92	....	.33	....	....	....	T.	....	....	....	.80	14	....	....	.42	.05	.04	5.47
Winona Ranger Sta.[2]	Black	....	1.10	.01	.10	....	....	.02	.50	....	1.00	....	....	....	....	.80	.25	....	....	....	....	....	....	....	....	.64	T.	....	....	.54	.21	....	5.17
Zalma[2]	Mississippi	....	1.04	.12	....	....	....	....	1.02	....	.86	....	....	....	....	.48	.25	.09	T.	....	....	....	.07	....	....	....	.38	....	....	....	.25	T.	4.56
Cairo, Ill.[1], [5]	....do	.82	.24	.06	.07	....	....	2.73	T.	.83	.11	....	T.	....	T.	.26	.15	.01	T.	....	....	.04	....	....	....	.21	....	....	.02	1.37	.02	....	6.94
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
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Except as otherwise indicated, amounts are for 24 hours ending late in afternoon. [1] Midnight to midnight. [2] Measured in the morning; for the preceding 24 hours. [3] Data for 24 hours ending 12:30 A. M. (C. S. T.) of following day. [5] Recording gage. T. Trace or 0.005 inch or less. * Included in next measurement. // Windshield on gage. Italics data interpolated. § Partly interpolated. (A) Record from cooperative station gage. (B) Record from river station gage. ‡ Received too late to be included in means and extremes.

Daily Evaporation (inches), Mean Temperature (F°), and Wind Movement (miles) for May 1945

(See precipitation data in daily precipitation table)

Station	Data	Day of month 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Monthly
Columbia (Univ. of Mo. Hort. Exp. Sta. 9 mi. WNW.)	Evaporation	.098	.052	.198	.200	.190	.230	.182	.166	.030	.043	.168	.172	.210	.437	.062	.062	.030	.090	.206	.344	.510	.237	.162	.129	.080	.191	.191	.200	.079	.090	.281	5.320
	Mean temperature	52	56	49	50	54	60	61	49	46	46	54	64	68	68	52	44	45	51	64	72	70	59	60	64	66	68	72	70	66	67	74	59.4
	Wind movement	22	98	216	123	39	57	99	54	44	81	78	59	38	59	136	121	147	28	88	178	273	204	35	76	78	8	62	59	10	15	73	2,658
Lakeside (Osage Dam)	Evaporation	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.....
	Mean temperature	52	56	52	54	54	60	62	49	47	49	54	62	68	70	48	47	47	55	61	72	73	62	61	59	68	70	69	68	66	70	72	60.0
	Wind movement	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
St. Louis (Washington University)	Evaporation	.175	.049	.072	.012	.120	.178	.110	.082	.148	.020	.094	.152	.092	.152	.240	.040	.020	.002	.128	.182	.133	.200	.205	.166	.122	.102	.191	.163	.050	.053	.093	3.546
	Mean temperature	52	58	45	52	56	60	66	52	47	48	54	63	66	70	52	52	50	56	62	71	72	61	63	66	70	72	76	72	66	68	76	61.0
	Wind movement	40	28	63	79	54	35	22	43	36	47	40	41	19	31	53	58	31	47	26	35	62	90	33	19	40	21	22	47	18	15	15	1,210

Observations taken at 8:00 a. m. except at 7:30 a. m. at Lakeside. For Lakeside and St. Louis (Washington University) descriptions see April 1932 and August 1938 reports, respectively. * Included in next measurement.

(Continued from page 35)

west-southwest over a path 1 mile wide and 4 or 5 miles long. Stones were from ¼ inch to 2½ inches in diameter, with some unofficially reported up to 4 inches in diameter. The same day between 7:40 p. m. and 8:30 p. m. C. W. T., heavy and very destructive hail fell in St. Louis and parts of St. Louis County over a path 8 to 10 miles wide and about 15 miles long. This storm came from the northwest, and was accompanied by high wind and heavy rain. Stones ranged up to as large as 2¼ inches in diameter, and were especially destructive to the many greenhouses in the area, and to composition roofs and soft type automobile tops. Much fruit was knocked off trees and the trees themselves bruised and battered, and truck and vegetable gardens were considerably damaged. The damage to greenhouses alone was estimated at $200,000 and to the contents (flowers and vegetables) at $210,000. The loss to farm crops and fruits was estimated at $200,000 while no estimate of the amount of the damage to roofs, window glass, automobile tops, etc., was available, but would run into several hundred thousand dollars. Considerable damage was caused by the accompanying rain penetrating homes and buildings whose roofs had been damaged by the hailstones.

Heavy hail fell at Bear Creek and Cedar Springs, Cedar County, at 2:15 p. m. C. W. T., on the 24th, resulting in considerable damage estimated at $3,000 to crops and $2,000 to property. The storm came from the southeast over a path ½ mile wide and 20 miles long. Stones ranged from ¼ to 1½ inches in diameter. Earlier the same day at 11 a. m. C. W. T., heavy hail fell 9 miles east from Rich Hill, Bates County, with considerable damage to crops and composition roofs. Damage to wheat, oats, barley and rye averaged 40% to 50%, but monetary amount of damage not reported. This storm came from the northeast over a path 7 miles long and 4 miles wide. Stones were approximately 1 inch in diameter. The same day heavy hail occurred 6 to 10 miles northeast of Sweet Springs, but the time was not reported. Path of this storm was 1 mile wide and 4 miles long, but direction of movement was not reported. Stones ranged up to 1½ inches in diameter, resulting in considerable damage to early gardens and roofs, and killing a few chickens. Amount of damage not reported.

From 8:00 a. m. to 9:00 a. m. C. W. T., of the 28th heavy hail occurred west and east of Rich Hill, Bates County, over a path 2 miles wide and 9 miles long. Stones averaged 1½ to 1¾ inches in diameter, with some as much as 3 inches in diameter. Damage to crops and roofs was estimated at $50,000; wheat, rye, oats, and barley were damaged 30% to 40%. One report received estimated the damage from the hailstorms of the 24th

(Continued on page 40)

Daily Temperatures for May 1945

Stations		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Northern Division																																	
Brunswick /	Maximum	56	61	61	63	69	80	65	54	50	57	67	75	81	71	45	44	51	66	73	85	75	72	76	65	76	85	83	73	74	80	86	68.4
	Minimum	46	47	42	42	42	44	46	43	41	39	39	43	53	54	41	41	42	38	38	56	61	51	51	53	57	59	59	63	60	60	60	48.7
Chillicothe /	Maximum	63	59	60	64	71	83	61	54	47	59	70	74	79	62	45	44	55	68	75	89	76	74	76	72	83	83	83	73	76	76	86	69.0
	Minimum	44	46	42	40	39	44	45	40	39	37	38	41	53	53	39	40	41	38	44	54	62	48	50	50	58	55	59	58	56	54	54	47.1
Columbia	Maximum	60	62	57	63	69	80	67	54	49	53	72	77	84	83	48	47	48	67	73	89	77	74	76	69	76	86	85	66	73	79	86	69.3
	Minimum	48	43	43	42	41	45	42	40	45	40	40	55	56	47	44	43	43	39	56	60	52	50	51	59	57	55	66	61	60	59	68	50.0
Fayette	Maximum	62	62	59	62	68	80	76	53	60	55	71	75	81	78	54	44	48	66	73	87	79	72	74	73	77	84	83	70	73	79	84	69.7
	Minimum	43	48	41	40	42	42	45	42	42	38	40	55	53	54	41	42	42	38	55	55	55	48	47	55	56	53	61	60	59	57	66	48.9
Grant City	Maximum	63	55	62	62	68	77	72	57	49	56	66	70	69	62	47	47	59	63	71	86	79	69	71	76	80	80	78	70	74	79	81	67.7
	Minimum	47	41	38	41	38	46	41	36	38	35	40	50	49	40	36	41	39	39	53	61	49	46	49	55	56	60	62	53	55	52	63	46.7
Hannibal	Maximum	55	64	53	64	69	76	65	58	51	52	69	75	74	69	47	46	48	66	69	86	77	72	78	74	76	84	85	76	75	82	87	68.5
	Minimum	44	40	39	40	40	47	46	42	39	42	40	53	53	45	41	42	43	41	51	58	50	50	49	54	59	61	63	62	55	57	63	48.7
Kansas City Airport.	Maximum	60	59	60	62	71	83	68	52	50	55	67	78	85	72	45	45	59	68	81	88	74	75	77	72	83	83	83	71	73	82	85	69.9
	Minimum	52	44	43	42	42	56	45	45	42	40	46	60	57	42	40	41	43	41	57	69	52	50	53	59	58	63	64	59	62	61	72	51.6
Kirksville	Maximum	61	61	62	67	74	75	70	62	51	58	70	77	77	70	45	43	49	69	70	89	83	74	79	80	82	85	87	87	77	84	88	71.2
	Minimum	45	42	39	38	42	48	43	39	38	35	41	53	53	45	38	40	40	39	50	52	57	47	48	54	58	61	64	57	53	53	65	47.6
Lawson	Maximum	60	56	60	62	68	81	70	53	48	59	69	76	84	78	43	44	58	67	77	86	72	72	76	69	83	84	81	75	74	81	85	69.4
	Minimum	49	45	40	37	36	48	42	40	37	37	41	55	52	43	38	38	40	38	53	62	49	46	51	55	57	61	62	58	58	57	67	48.1
Louisiana /	Maximum	59	63	52	63	69	75	62	57	51	54	58	75	76	74	46	49	51	65	68	86	78	71	76	75	78	82	85	74	71	80	80	67.8
	Minimum	36	46	40	42	45	40	57	40	35	39	35	42	48	50	44	44	45	44	49	55	55	51	49	52	59	55	64	65	58	53	54	48.1
Macon /	Maximum	55	61	57	65	68	75	63	55	47	55	68	75	76	64	43	43	49	66	74	87	77	72	75	70	78	86	83	74	77	81	85	67.9
	Minimum	43	45	40	39	40	43	50	40	35	36	40	41	52	57	40	40	40	38	42	54	64	49	49	52	57	58	61	61	53	55	58	47.5
Maryville	Maximum	62	54	61	61	67	80	74	59	48	54	66	70	71	67	49	46	59	63	72	86	80	70	71	76	80	79	79	77	72	78	82	68.2
	Minimum	47	41	37	37	38	43	40	33	37	33	40	46	47	39	35	40	37	38	52	60	47	42	47	53	55	59	61	53	55	53	62	45.4
Mexico /	Maximum	57	62	53	62	67	79	61	54	50	53	70	75	80	77	46	47	47	66	74	86	77	70	82	69	74	85	85	71	73	80	86	68.3
	Minimum	43	47	39	40	42	47	52	41	42	38	38	43	53	57	43	42	42	38	46	57	67	48	51	55	58	58	64	63	60	57	65	49.5
Moberly /	Maximum	56	61	68	63	66	79	61	65	49	59	69	74	80	69	44	45	53	64	73	88	76	72	73	75	82	85	83	73	74	78	84	69.1
	Minimum	43	46	40	39	39	42	45	40	34	37	40	47	51	53	41	42	43	38	51	58	68	54	50	52	57	58	60	60	58	56	60	48.5
Oregon	Maximum	64	55	63	65	70	82	75	62	48	57	70	74	80	69	47	47	63	66	78	86	74	72	73	77	85	82	83	75	77	81	85	70.5
	Minimum	49	48	39	39	38	53	42	36	40	35	42	50	50	40	38	40	38	40	53	64	46	45	54	58	58	64	61	54	55	56	64	48.0
St. Charles /	Maximum	61	64	49	65	73	73	71	60	50	55	70	80	82	77	52	54	50	68	72	85	77	74	80	71	77	89	86	72	75	83	90	70.5
	Minimum	42	50	40	41	43	43	60	43	43	42	40	45	52	62	49	45	47	44	49	55	63	52	48	52	61	57	63	70	60	58	61	51.0
St. Joseph	Maximum	57	56	62	63	69	82	67	51	47	56	70	75	84	59	47	47	60	66	78	87	74	71	74	75	83	81	83	72	75	81	85	68.9
	Minimum	50	46	42	42	39	52	44	40	42	39	44	55	53	42	40	41	42	44	55	67	48	48	53	59	59	65	65	58	59	60	67	50.3
Trenton	Maximum	67	60	61	64	69	80	77	63	50	56	68	75	75	72	55	46	58	66	73	87	78	71	74	75	78	84	78	77	80	84	84	70.5
	Minimum	43	44	42	40	41	44	45	40	38	37	42	55	52	44	39	40	41	35	47	60	58	48	47	52	55	60	62	52	55	56	66	47.7
Unionville /	Maximum	55	61	65	67	70	75	61	57	47	56	70	73	74	55	48	50	55	65	74	87	79	75	78	80	80	85	80	79	80	84	87	69.4
	Minimum	35	45	38	35	35	39	48	37	35	33	35	40	50	50	36	36	39	36	37	49	56	38	45	46	53	56	59	55	52	50	54	43.6
Warrenton	Maximum	64	64	51	65	70	78	77	59	54	56	71	..	81	80	68	50	50	65	72	88	84	73	76	73	77	85	85	85	73	80	86	^{a}71.3
	Minimum	42	48	40	40	39	45	48	38	41	39	35	48	..	60	43	42	44	39	50	55	68	48	46	55	58	54	65	62	58	54	66	^{a}49.0
Keokuk, Iowa	Maximum	56	58	57	63	68	75	64	55	48	53	67	71	71	59	46	47	50	65	68	87	78	69	76	76	79	84	84	71	75	80	85	67.3
	Minimum	47	40	40	42	47	51	47	42	38	37	42	60	55	39	39	42	44	42	53	59	49	50	53	56	60	63	68	57	57	55	64	49.6
Southwestern Division																																	
Clinton	Maximum	68	58	57	60	69	80	63	53	53	55	71	80	86	87	51	46	56	71	79	88	76	75	79	66	84	86	83	74	71	84	86	70.8
	Minimum	47	..	..	..	..	..	..	..	..	34	40	55	55	48	43	42	42	38	54	63	50	47	48	54	58	59	61	59	60	60	66	^{h}51.4
Eldon	Maximum	61	63	55	63	69	81	75	56	53	56	73	77	85	87	61	48	49	69	..	..	..	..	..	86	78	85	80	76	70	82	84	^{e}70.1
	Minimum	44	43	41	41	44	45	47	45	41	41	39	53	54	60	45	43	42	40	..	..	..	..	..	48	56	55	62	61	60	59	66	^{e}49.0
Harrisonville /	Maximum	54	61	62	65	69	78	63	63	53	53	67	78	83	84	44	45	61	67	78	85	72	74	75	69	85	84	79	65	71	82	83	69.4
	Minimum	49	50	40	37	38	43	53	42	42	40	39	44	55	61	39	40	39	40	48	57	64	45	49	54	54	57	61	62	52	59	60	48.8
Jefferson City /	Maximum	59	62	59	64	70	81	64	59	51	57	71	78	84	87	50	49	49	67	75	89	78	73	77	65	78	85	84	69	70	82	85	70.0
	Minimum	45	46	41	42	42	44	54	44	43	43	41	41	53	55	46	44	43	41	43	56	60	50	47	51	57	56	60	68	61	58	59	49.5
Joplin	Maximum	68	63	68	61	70	80	66	57	58	56	69	78	86	87	56	46	62	76	82	85	75	73	79	82	84	86	84	78	80	86	85	73.1
	Minimum	56	48	43	43	42	53	50	44	49	45	46	59	64	56	46	42	43	44	59	70	52	48	53	62	62	60	67	70	68	66	71	54.2
Lamar /	Maximum	58	64	61	63	67	82	63	58	55	54	67	78	85	85	50	46	60	71	83	85	72	72	79	80	84	85	84	74	79	85	83	71.4
	Minimum	44	47	39	37	35	35	49	41	42	46	42	45	55	59	46	43	40	40	40	55	68	44	44	49	45	55	62	66	63	60	60	48.3
Lebanon /	Maximum	57	61	54	61	68	80	66	55	55	52	67	77	83	88	51	48	*63*	71	76	87	75	72	76	71	80	85	80	74	79	84	84	70.3
	Minimum	45	47	40	40	38	39	49	39	42	43	40	40	53	63	50	43	40	39	40	52	63	45	45	47	56	56	57	63	61	57	57	48.0
Lexington /	Maximum	56	64	64	66	70	82	66	58	50	58	68	78	85	72	45	45	58	68	86	88	75	76	78	66	84	85	74	74	75	80	86	70.3
	Minimum	48	50	43	42	42	42	56	43	44	40	40	45	55	55	41	42	43	41	43	57	68	50	54	58	56	60	65	62	62	62	68	50.9
Marshall	Maximum	65	60	60	87	67	..	77	59	60	54	70	75	84	79	65	45	54	64	75	89	86	72	75	74	76	83	82	81	72	78	85	^{a}71.8
	Minimum	46	51	42	41	42	..	44	43	42	38	40	57	52	52	40	42	41	39	55	60	59	47	53	55	57	59	57	58	55	58	66	^{a}49.7
Mountain Grove	Maximum	65	62	55	63	69	78	76	61	60	52	63	75	81	84	83	54	49	68	72	84	79	72	75	72	80	83	79	76	80	82	83	71.5
	Minimum	43	48	38	40	37	44	47	37	41	42	37	51	53	64	50	44	39	41	50	55	59	45	46	52	56	55	61	65	63	59	63	49.2
Neosho	Maximum	67	67	62	62	70	82	80	61	61	57	70	78	86	89	86	52	59	75	82	86	85	72	81	83	85	87	88	84	84	88	87	76.0
	Minimum	49	47	44	41	32	45	58	35	49	49	41	55	55	70	47	43	41	37	53	61	65	43	44	55	59	62	62	69	68	66	62	51.8
Nevada	Maximum	67	63	61	65	70	82	79	62	56	56	68	81	86	87	72	46	61	73	85	87	80	75	80	80	87	87	85	81	76	87	87	74.6
	Minimum	50	50	42	42	35	48	46	39	44	44	43	56	57	69	43	42	40	39	55	69	56	46	48	54	58	63	62	64	62	57	67	51.3
Sedalia	Maximum	66	60	59	62	68	82	80	58	52	54	69	76	85	86	69	44	53	67	77	89	83	73	77	75	78	84	82	79	69	83	85	71.7
	Minimum	47	50	40	39	39	48	44	44	42	39	40	54	56	65	42	41	40	36	55	64	58	48	51	59	57	60	60	58	59	59	59	50.1
Springfield ..½ mile E	Maximum	57	61	55	61	66	79	62	57	52	52	66	76	82	86	56	45	51	68	76	85	73	70	75	75	82	84	82	79	80	85	82	69.7
	Minimum	47	43	41	40	37	44	42	38	44	43	43	53	55	56	45	40	40	41	51	60	48	45	48	57	57	59	61	66	64	61	64	49.5
Warrensburg	Maximum	67	60	62	65	70	81	80	61	53	55	65	78	84	86	66	45	55	70	78	85	82	75	77	70	82	84	81	79	70	81	85	72.0
	Minimum	49	51	41	40	42	50	44	43	42	40	41	56	55	63	41	41	41	40	54	64	56	47	*51*	60	57	62	61	57	58	59	67	50.7
Southeastern Division																																	
Arcadia /	Maximum	68	70	55	70	73	80	70	68	55	58	69	76	84	85	68	65	53	70	75	86	76	76	80	80	80	87	84	77	75	86	88	73.8
	Minimum	38	40	40	40	41	35	36	38	39	44	34	35	51	52	59	47	44	44	45	47	56	49	40	41	49	50	50	63	62	60	59	46.1
Birch Tree .. ½ mile E	Maximum	60	65	56	63	70	78	..	..	69	59	64	76	81	82	78	59	50	70	72	85	75	68	77	81	77	84	82	80	81	83	85	^{b}72.8
	Minimum	41	50	42	43	35	35	..	..	32	..	34	55	54	63	56	48	42	45	47	..	..	45	41	50	45	53	53	65	63	60	63	^{e}48.5
Caruthersville /	Maximum	67	63	56	65	73	79	68	70	61	58	66	71	81	85	70	73	54	64	72	82	79	78	80	81	76	86	86	86	86	83	88	73.8
	Minimum	44	51	43	42	42	44	45	43	44	50	44	45	54	55	62	62	49	49	46	47	60	52	52	52	59	60	63	63	69	64	65	52.3
Crystal City	Maximum	66	66	58	65	70	80	77	65	63	58	71	75	83	86	85	64	65	68	74	90	86	75	79	77	77	87	86	85	68	79	90	74.8
	Minimum	39	49	40	40	38	37	52	48	36	42	35	47	49	63	51	46	45	45	47	54	68	50	43	52	59	53	62	63	58	55	64	49.4
Doniphan	Maximum	70	71	64	67	75	81	73	73	67	60	66	76	85	84	80	68	59	71	74	84	86	77	80	82	81	87	88	87	83	81	89	76.4
	Minimum	40	53	43	41	36	56	57	36	49	49	37	55	50	60	60	54	47	49	48	49	50	46	42	47	56	57	64	63	65	62	63	51.1
Farmington	Maximum	65	63	53	62	70	81	69	61	54	55	68	75	83	85	76	67	52	66	73	85	76	72	77	74	76	85	84	78	69	79	87	71.6
	Minimum	39	49	41	42	43	39	50	44	43	42	35	49	52	65	51	46	45	45	47	55	65	50	43	52	58	53	65	66	61	58	65	50.3
Jackson	Maximum	74	73	67	71	73	79	78	77	77	74	71	71	84	86	83	74	69	67	75	84	83	77	81	79	76	87	87	85	78	81	89	77.7
	Minimum	41	36	43	44	42	40	44	47	47	46	38	52	51	59	61	50	48	48	44	56	64	50	46	49	54	54	62	68	63	49	66	50.4
Poplar Bluff	Maximum	65	69	55	67	74	80	70	71	59	53	66	70	85	85	76	69	59	69	74	85	79	78	80	81	82	86	88	87	83	84	89	74.8
	Minimum	42	52	44	42	44	39	54	40	51	49	39	56	50	59	61	56	42	48	45	*51*	65	47	45	51	60	56	63	63	64	64	63	51.8
Rolla /	Maximum	61	63	51	62	70	81	69	56	50	53	70	75	85	87	53	51	54	68	75	88	73	72	76	71	78	84	84	78	68	83	87	70.2
	Minimum	43	49	40	41	41	44	58	40	43	42	39	50	52	67	50	44	42	43	50	59	68	47	47	55	65	61	64	65	60	58	58	51.1
St. Louis	Maximum	60	62	49	61	67	74	70	58	51	52	67	76	80	78	59	58	50	67	71	85	78	71	76	77	75	86	85	76	71	78	88	69.5
	Minimum	49	43	41	45	46	49	49	47	46	41	42	56	58	51	46	46	46	46	55	56	55	52	55	62	62	62	68	63	61	62	66	52.5
Salem	Maximum	65	62	57	62	70	81	76	58	57	54	71	76	84	86	79	53	50	72	75	87	82	72	77	74	78	87	86	78	75	82	86	72.6
	Minimum	39	49	41	41	39	39	48	38	43	42	38	53	50	65	52	44	42	45	51	58	64	48	44	50	57	52	54	63	62	58	65	49.5
Sikeston /	Maximum	67	68	50	65	75	79	65	70	57	56	68	65	82	85	70	74	55	67	73	84	80	78	81	82	78	88	89	85	83	85	92	74.1
	Minimum	43	51	44	44	43	43	54	41	47	50	41	46	53	60	62	54	50	49	46	54	64	50	48	56	63	58	67	70	65	63	67	53.1
Union ......1½ mi. SE	Maximum	65	65	57	64	69	81	80	60	57	57	72	79	82	82	72	54	58	68	74	89	87	74	79	75	76	86	86	83	71	81	88	73.3
	Minimum	40	49	40	43	40	42	51	37	42	42	36	51	48	63	48	45	45	43	49	54	71	50	42	50	59	52	64	63	59	56	63	49.6
West Plains	Maximum	57	67	55	64	72	80	64	68	53	53	64	77	83	84	63	56	51	69	73	86	75	74	78	76	83	84	84	84	86	84	87	72.1
	Minimum	48	45	42	42	37	38	40	37	45	40	38	54	51	60	54	45	44	47	48	50	52	46	42	45	59	56	62	64	67	63	62	49.1
Cairo, Ill.	Maximum	65	66	52	63	72	79	66	68	57	57	68	67	82	86	75	75	56	64	72	83	80	77	79	79	76	83	88	83	75	83	90	73.1
	Minimum	48	52	46	48	47	47	50	45	52	45	43	58	55	66	64	56	50	50	49	58	63	53	54	60	61	62	67	68	57	63	69	55.0

/ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs. ^{a}, ^{b}, ^{c}, etc., number of days missing, for example, ^{b} indicates two days missing. Italics data interpolated. § Partly interpolated.

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and 28th in Bates and nearby counties, at $100,000 to crops and $75,000 to property.

On the 29th heavy hail occurred at Marshall, and accumulated in places to a depth of about 4 inches. This storm came from the southwest, with path 1 mile wide and 4 miles long. Stones ranged from the size of small peas to 1¼ inches in diameter. Damage to crops and gardens was estimated at $25,000. Roofs and window lights were also damaged considerably, but amount of this and other property damage was not reported. The same day about 9:00 a. m. to 10:00 a. m. C. W. T., a heavy hail and windstorm struck at Marquand, Madison County, and moved across Bollinger County in a southeasterly direction, over a path averaging 3½ miles wide. Fruit, wheat, oats, and gardens were 90% ruined, and trees were battered and broken badly. Many roofs were badly damaged and numerous windows broken. Damage from both hail and wind was estimated at $75,000 to $100,000. The hailstones ranged from very small to more than 1 inch in diameter. Evidently this was part of the same storm that struck Cairo, Ill., a little later the same day.

On the 31st, at 5:00 p. m. C. W. T., heavy hail fell at Arrow Rock, Saline County, over a path ½ mile wide and 2 miles long. The storm came from the east, and stones averaged 1 inch in diameter. The resultant damage to crops was slight. Three buildings were damaged, but the amount of damage was not reported.

WINDSTORMS

On the 9th, destructive winds were reported at several places in Barry, McDonald, Newton, and Lawrence counties, resulting in property damage estimated at $40,000, and crop (fruit) damage estimated at $8,000. The winds were generally from the northwest, except in McDonald County, where they were from the southwest. At Hailey the wind was reported as rotary, but apparently this was not a tornado. Places reported as being struck by the high winds were near Cassville, Stella, Wheaton, Exeter, Mineral Springs, Cato, Hailey, and Shell Knob. The windstorm struck Hailey at 12 noon C. W. T., and near Cassville at 12:30 p. m. C. W. T. At those places the winds were accompanied by hail. The path near Cassville was reported as 8 miles wide, and at Hailey is was reported as ¼ mile wide, while in McDonald County the path was reported as "broad" and the length as about 30 miles. Apparently these were a series of two, or more, windstorms.

During the early evening of the 14th, high winds, accompanying a heavy hailstorm struck St. Louis and St. Louis County, blew down trees, barns, and wires, damaged windows, and blew out the brick wall of one building. The bulk of the damage from this storm however, was from hail, with wind damage relatively light; probably amounting to $2,000. The wind came from the northwest. Path was 8 to 10 miles wide and about 15 miles long.

On the 20th a minor windstorm struck Boonville, blowing down some trees. Slight property damage resulted.

On the 21st from 1:00 p. m. to 6:00 p. m. C. W. T., a windstorm struck Kirksville, resulting in property damage estimated at $1,000. The storm came from the south. Length and width of path was reported as unknown.

On the 24th trees were blown down at Boonville; property damage was slight.

In connection with a heavy hailstorm, an accompanying windstorm struck eastern Madison County, near Marquand, and extended southeasterly across Bollinger County, between 9:00 a. m. and 10:00 a. m. C. W. T., on the 29th. Although the bulk of the resultant damage was from hail, there was also considerable wind damage, but it was impossible to accurately segregate the wind damage from that caused by hail. However, the damage from both was estimated at $75,000 to $100,000. For further details see description of this storm under hailstorms.

ERRATA

February 1945, page 10: Mean temperature, departure, and total snowfall at Clinton should be 36.4, + 2.8, and 7.5, respectively. Total snowfall at Crystal City should be 6.5. Page 15: maximum temperature on 10th, 22d, 24th, and 25th at Clinton should be 55, 45, 60, and 57, respectively; mean maximum should be 45.4.

March 1945, page 17: Degree days at St. Louis should be 357. Page 18: Mean temperature and departure at Lexington should be 51.6 and + 8.2, respectively. Page 19: Mean temperature at West Plains should be 53.3. Page 23: Minimum temperature at St. Louis on 29th should be 52; maximum temperature on 31st at Lexington should be 76; mean maximum should be 64.3. Minimum temperature at West Plains on 25th should be 52; mean minimum should be 41.1.

April 1945, page 26: Average temperature and departure for Southwestern Division should be 56.2 and + 0.1, respectively. Page 27: Mean temperature and departure at St. Louis City should be 57.0 and + 0.9, respectively. Page 31: Minimum temperature on 12th, 20th, and 27th at Columbia should be 53, 44, and 39, respectively; mean minimum should be 45.0. Maximum at St. Louis on 23d should be 67; mean maximum should be 65.4.

WBO, St. Louis, 7-17-45—1000.

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CLIMATOLOGICAL DATA

19

MISSOURI SECTION

H. F. WAHLGREN
ST. LOUIS, MO.

Vol. XLVIV   June 1945   No. 6

Price: 5 Cents a Copy; 25 Cents a Year

GENERAL SUMMARY

June was both much wetter and cooler than normal, making it the fifth consecutive month of the current year with an excess of precipitation and the second consecutive month with below-normal temperature. It was a decidedly unfavorable month for seasonal agricultural activities and much of the intended crop acreage had not been plowed or planted at the close of the month.

The temperature deficiency was State-wide, each of the three divisions of the State averaging from approximately three to five degrees lower than their respective June normals. The Northern Division had the lowest monthly average with 67.4°, while the Southeastern Division had the highest average temperature with 71.3°; the average for the Southwestern Division was 69.7°. For the State as a whole, it was the coolest June since 1928 and the third-coolest in the 58 years State-wide records have been kept. Cooler Junes were in 1928 and 1903, while the monthly average in 1912 was exactly the same as for the current month. The period from the 2d to the 8th was decidedly cool, with the minimum temperatures for the month generally occurring on the 4th. The 17th to 21st was another rather cool period. There were no unusual or prolonged periods of warm weather and maximum temperatures did not go above the middle 90's anywhere in the State, which is quite unusual for June. The 27th and 28th were generally the warmest days of the month.

Precipitation was again unusually frequent and heavy, as was the case the four preceding months, making the five-month period, February to June, inclusive, of this year, the wettest five-month period in the past 58 years. For the six months, since the first of this year, some stations, particularly in the Southeastern Division, had received as much, or more, precipitation than normally occurs in a whole year; Jackson and Poplar Bluff being two stations picked at random as representative. At Jackson 48.38 inches of precipitation had fallen since January 1st, as compared to a yearly average of 46.26 inches; at Poplar Bluff 53.15 inches fell during the six-month period while the annual average there is 47.35 inches. A very heavy and excessive rain, of cloudburst proportions, fell locally at Newburg, Phelps County, on the afternoon of the 8th, resulting in a flash flood which drowned five persons and caused property damage of $277,141, (estimated by the U. S. Engineer Office at Kansas City, Mo.). Since no official rain gage was located at Newburg, or in the immediate area, no official measurements are available, but unofficial estimates of the amount of this torrential downpour vary from five to as much eight inches. Twenty-four hour amounts of rainfall of four to nearly seven inches occurred locally at several other stations during June.

The frequent and heavy rains kept most rivers of the State at unusually high levels, or in flood, during much of the month, but they were receding and generally within banks at the end of June. In the Meramec River the highest flood since 1916 occurred when the crest at Valley Park reached 33.0 feet at noon (C. W. T.) of the 11th.

(Continued on page 43)

PRESSURE, WIND, HUMIDITY, AND SUNSHINE

Stations	Sea-level pressure, extremes-inches				Wind				Relative humidity ¶			Percentage of sunshine	Degree days
	Highest	Date	Lowest	Date	Average hourly velocity	Maximum velocity	Direction	Date	6:30 a. m.	12:30 p. m.	6:30 p. m.		
Columbia..	30.27*	5	29.49*	1	5.8	26	nw.	31	89*	70*	71*	30	50
Kan. City Airp't.	30.21	16	29.43	1	9.6	56	nw.	31	81	65	64	54	52
St. Joseph........	30.21*	4	29.40*	1	8.1	31	nw.	15	88*	65*	64*	58	69
St. Louis	30.23*	5	29.56*	1	10.9	40	sw.	1	83	65	68*	50	42
Springfield	30.13	18	29.60	1	9.4	39	se.	5	90	72	75	33	43
Cairo, Ill.........	30.19	5	29.66	1	8.9	33	sw.	1	85	65	..	68	19
....	.....	..	.....	..	....	..	......	..	..	..	..	..	....

* Data for Airport station.

¶ C. S. T.

COMPARATIVE DATA FOR JUNE

Year	Temperature			Precipitation					Number of days			
	Average for State	Highest	Lowest	Average for State	Average, Northern Division	Average, Southwestern Division	Average, Southeastern Division	Snowfall, Average for State	Precip. .01 inch or more	Clear	Partly cloudy	Cloudy
1888	72.6	103	36	5.81	5.98	5.96	5.50	0	7	..	..	..
1889	70.7	100	38	4.66	4.29	4.57	5.13	0	6	..	..	..
1890	77.2	106	44	2.45	3.14	2.49	1.71	0	6	..	..	..
1891	73.2	103	46	6.56	5.61	7.99	6.08	0	13	..	..	..
1892	74.5	100	45	3.09	3.04	3.72	2.52	0	7	15	9	6
1893	72.6	98	40	4.72	4.92	3.91	5.32	0	9	12	12	6
1894	74.5	105	35	3.74	4.28	4.92	2.03	0	7	16	11	3
1895	73.3	100	42	5.87	6.07	6.33	5.20	0	10	12	11	7
1896	72.5	101	45	3.98	3.32	3.63	5.00	0	9	12	11	7
1897	73.6	102	38	6.25	6.49	5.74	6.51	0	12	9	14	7
1898	75.3	100	49	5.92	6.32	6.54	4.90	0	11	13	12	5
1899	74.3	101	42	3.92	3.71	4.83	3.21	0	9	15	10	5
1900	73.3	103	44	5.05	3.71	5.06	6.37	0	10	12	12	6
1901	77.9	106	40	2.02	2.67	1.47	1.92	0	6	18	10	2
1902	70.9	100	37	6.42	6.64	6.95	5.68	0	12	11	10	9
1903	67.3	95	36	3.28	2.96	3.78	3.09	0	9	15	9	6
1904	70.5	93	45	6.68	5.31	8.23	6.51	0	11	12	12	6
1905	75.2	103	42	3.14	2.84	3.06	3.52	0	7	15	10	5
1906	72.7	101	40	4.82	3.28	6.62	4.55	0	10	15	9	6
1907	71.2	97	40	5.47	5.76	6.40	4.24	0	11	14	10	6
1908	72.3	98	43	6.01	6.92	6.78	4.33	0	11	13	10	7
1909	73.9	98	48	5.23	5.96	5.78	3.95	0	11	11	13	6
1910	70.4	99	38	4.11	3.08	4.69	4.57	0	8	16	7	7
1911	78.9	112	43	1.76	0.93	1.59	2.77	0	6	18	8	4
1912	69.5	100	42	4.77	3.31	5.39	5.62	0	9	14	8	8
1913	75.4	107	33	2.55	3.01	2.31	2.32	0	6	18	8	4
1914	79.3	106	43	2.26	3.11	2.50	1.17	0	5	18	7	5
1915	70.8	98	38	6.45	7.53	7.24	4.57	0	12	11	10	9
1916	70.0	100	42	5.86	5.05	6.50	6.04	0	10	14	9	7
1917	71.0	103	35	3.67	5.72	2.20	3.10	0	8	19	7	4
1918	77.2	110	48	3.09	3.04	3.20	3.04	0	7	17	8	5
1919	75.0	104	44	5.58	5.04	6.24	5.47	0	11	14	10	6
1920	72.7	104	41	2.35	3.09	2.14	1.83	0	6	18	7	5
1921	76.6	105	44	5.81	4.74	7.74	4.96	0	12	12	10	8
1922	76.5	108	43	1.61	1.72	1.39	1.72	0	5	19	8	3
1923	73.5	103	45	5.56	5.30	6.52	4.87	0	11	14	9	7
1924	72.5	101	38	7.27	8.53	7.70	5.57	0	14	12	12	6
1925	76.5	103	46	5.99	7.68	4.99	5.31	0	9	15	10	5
1926	70.9	101	37	3.60	5.02	3.79	1.99	0	8	15	9	6
1927	70.3	99	41	5.81	5.38	6.77	5.28	0	10	15	7	8
1928	67.7	91	40	11.25	8.59	11.03	14.12	0	15	8	11	11
1929	71.3	99	39	5.69	6.57	5.98	4.52	0	10	16	8	6
1930	72.4	109	36	3.77	5.17	4.63	1.52	0	7	18	8	4
1931	77.1	107	40	2.75	4.09	1.81	2.35	0	6	19	8	3
1932	75.2	103	47	4.81	5.53	6.09	2.82	0	10	12	12	6
1933	78.4	107	38	1.47	2.89	0.92	0.61	0	3	22	6	2
1934	80.4	108	47	2.82	2.92	2.72	2.83	0	7	17	10	3
1935	69.6	98	39	8.95	6.73	11.06	9.07	0	15	9	12	9
1936	76.5	112	40	1.42	1.30	1.38	1.57	0	4	21	6	3
1937	74.4	105	43	4.93	3.43	5.79	5.56	0	10	14	10	6
1938	72.4	98	44	4.77	4.20	5.04	5.06	0	10	13	11	6
1939	74.6	99	41	5.64	7.70	5.38	3.83	0	12	11	13	6
1940	73.5	98	44	4.36	4.24	5.10	3.75	0	8	13	10	7
1941	74.1	103	43	4.23	4.79	5.12	2.78	0	9	14	9	7
1942	73 3	98	35	7.70	8.01	8.45	6.64	0	14	9	10	11
1943	75.8	101	43	6.39	7.58	7.06	4.54	0	12	12	11	7
1944	76.4	107	39	2.55	2.55	3.48	1.62	0	7	16	10	4
1945	69.5	95	37	8.84	8.22	7.29	11.02	0	14	7	11	12
....	....	..	..	....	....	....	....	....	..	..	..	..
....	....	..	..	....	....	....	....	....	..	..	..	..
....	....	..	..	....	....	....	....	....	..	..	..	..
Period..........	73.6	112	33	4.75	4.81	5.10	4.34	0	9	14	10	6

NAT. HIST.

Climatological Data for June 1945

Stations	Counties	Elevation, feet	Temperature, in degrees Fahr.							Precipitation, in inches						Number of days				Prevailing direction of wind	Observers
			Length of record, years	Mean	Departure from the normal	Highest	Date	Lowest	Date	Length of record, years	Total	Departure from the normal	Greatest in 24 hours [4]	Date	Total snowfall, unmelted	With precip., .01 inch or more	Clear	Partly cloudy	Cloudy		
Northern Division																					
Albany	Gentry	930	4	66.4	......	90	28	40	3	16	6.05	+0.81	2.55	15–16	0	15	10	14	6	s.	Curtis E. Grace
Bethany	Harrison	916	50	....	......	90^{m}	28	..	..	52	§7.04	+1.98	2.67	15–16	0	14	..	..	..	......	B. A. McGregor
Brookfield	Linn	767	4	67.9	......	92	29	41	4	4	6.34	......	1.45	14	0	12	12	3	15	e.	G. F. Breen
Brunswick	Chariton	652	64	67.2	− 5.8	90	27†	42	4†	66	9.57	+4.46	1.76	15–16	0	15	12	4	14	n.	O. K. Benecke
Canton, Lock & Dam 20	Lewis	488	7	67.4	......	90	27†	45	3†	15	9.33	+4.55	2.54	15–16	0	13	6	8	16	s.	Lockmaster
Chillicothe	Livingston	779	36	66.6	− 5.7	92	27†	40	4	39	6.55	+1.82	1.62	6–7	0	15	15	4	11	se.	Wm. J. Olenhouse
Clifton Hill	Randolph	731	46	67.9	− 4.5	90	27†	38	4	36	11.01	+6.62	3.42	7	0	21	6	11	13	sw.	Dr. A J. Bradsher
Columbia	Boone	740	55	69.1	− 4.3	92	28	43	4	55	9.50	+4.74	3.21	6–7	0	19	3	13	14	s.	U. S. Weather Bureau
Conception	Nodaway	1,108	56	67.0	− 4.5	91	27	39	4	61	6.24	+1.29	2.86	15–16	0	12	10	11	9	e.	Fr. Adelhelm Hess
Edgerton	Platte	856	25	67.3	− 4.6	90	28	40	4	42	7.78	+2.91	1.50	30	0	12	17	6	7	se.	Paul C. Handley
Elsberry	Lincoln	449	14	....	......	..	..	..	..	14	....	......	....	..	.	..	..	..	..	......	....
Fayette	Howard	760	65	67.8	− 5.0	90	28	38	4	62	7.51	+2.94	1.88	7	0	15	10	5	15	se.	Irvin E. Sehnell
Fulton	Callaway	818	57	68.4	− 4.8	91	27†	41	4	53	6.30	+1.90	2.65	7	0	16	10	8	12	e.	Frank E. Hillgartner
Grant City	Worth	1,134	41	65.6	− 5.2	89	27	39	3†	53	5.66	+0.66	1.96	15–16	0	15	8	14	8	s.	J. Homer Korn
Hannibal	Marion	759	53	67.4	− 5.1	91	28	46	3†	61	10.80	+6.90	3.40	9	0	13	3	16	11	s.	Hannibal Water Dept.
Kansas City Airport	Jackson	741	56	68.9	− 4.7	92	27	44	4	56	6.05	+1.37	1.50	6–7	0	15	2	12	16	ne.	U. S. Weather Bureau
Kansas City Univ.	Jackson	908	7	69.0	......	92	27	41	4	7	6.55	......	1.60	29–30	0	13	7	7	16	sw.	University of Kansas City
Kidder	Caldwell	1,020	53	66.5	− 5.3	90	28	37	4	57	6.57	+1.60	2.10	15–16	0	14	8	8	14	s.	Mrs. Geraldine Terry
Kirksville	Adair	969	56	66.8	− 4.9	88	28†	45	3†	63	10.69	+5.63	5.15	15–16	0	15	5	16	9	sw.	Dr. Willis J. Bray
Lawson	Ray	1,070	7	67.0	......	90	27†	37	4	7	9.10	......	3.09	30	0	14	6	15	9	e.	Elmer E. Lamb
Louisiana	Pike	469	51	67.2	− 4.9	92	28	47	4	64	9 49	+5.26	2.20	15–16	0	15	14	4	12	s.	Stark Bro's Nurseries
Macon	Macon	875	46	67.0	− 5.4	90	28	44	4	52	8.13	+3.41	1.69	8	0	15	5	9	16	ne.	John W. Atwell
Maryville	Nodaway	1,169	55	65.2	− 4.6	88	27	38	3	51	5.62	+0.51	1.79	15–16	0	12	4	12	14	se.	R. B. Montomery
Memphis	Scotland	787	6	65.8	......	90	28	43	3†	15	8.51	+3.38	3.53	15–16	0	11	4	7	19	sw.	John W. Alexander
Mexico	Audrain	800	56	67.2	− 6.0	91	28	40	4	67	5.17	+0.43	2.00	7	0	15	7	6	17	sw.	Darrence W. Stuart
Moberly 3½ mi. NE	Randolph	860	8	....	......	..	..	..	..	8	....	......	....	..	0	..	..	..	..	......	F. W. Bell
New Florence. 1 mi SE	Montgomery	885	2	67.4	......	90	27	45	4	3	6.83	......	2.47	7	0	17	2	7	21	s.	U. S. Weather Bureau
Oregon	Holt	1,048	89	67.4	− 4.8	90	27	41	3	89	7.50	+2.13	4.10	15	0	12	9	12	9	ne.	Miss Mina Wright
St. Charles	St. Charles	520	57	69.8	− 4.1	91	27†	48	4	67	6.18	+2.18	1.40	6–7	0	16	7	13	10	s.	Martin L. Comann
St. Joseph	Buchanan	957	35	67.2	− 6.5	91	27	43	4	73	10.10	+5.15	3.26	15–16	0	14	12	12	6	e.	U. S Weather Bureau
Saverton, Lock No. 22	Ralls	472	7	67.5	......	93	28	45	3	7	11.02	......	4.39	8–9	0	16	11	8	11	se.	Lockmaster
Shelbina	Shelby	779	4	67.7	......	91	28	43^{a}	4	52	11.97	+7.49	2.97	9	0	14	10	9	11	se.	Guyman Hatcher
Steffenville	Lewis	650	47	67.8	− 4 8	90	28	45	3†	52	9.24	+4.70	2.50	15–16	0	16	6	12	12	s.	Mrs. Fannie V. Gross
Tarkio	Atchison	916	42	65.5	− 6.3	90	27	42	3†	51	6.41	+1.45	1.90	15	0	11	4	12	14	s.	C. A. A. Station
Trenton	Grundy	822	49	67.0	− 5.2	91	28	42	4	50	9.36	+4.32	3.37	15–16	0	12	5	16	9	s.	W. H. Estes
Unionville	Putnam	1,062	52	65.8	− 5.5	90	28	40	4	52	10.11	+4.92	3.81	15–16	0	14	4	20	6	e.	C. D. Wilson
Vandalia	Audrain	766	1	70.1^{g}	......	91^{g}	28	..	..	6	§6.23	......	2.48	7	0	14	12^{f}	6^{f}	6^{f}	s.	Harold H. DeTienne
Warrenton	Warren	816	63	69.4	− 4.0	92	28	45	4	55	5 95	+2.17	1.97	7	0	17	9	13	8	se.	W. T. Zimmerman
Keokuk, Iowa	Lee, Ia.	574	73	67.8	− 4.7	91	28	45	3	73	9.26	+5.13	3.22	15–16	0	15	4	12	14	s.	U. S. Weather Bureau
Division means and extremes		.....	..	**67.4**	**− 5.0**	**93**	**28**	**37**	**4**	..	**8.22**	**+3.41**	**5.15**	**15–16**	**0**	**14**	**8**	**10**	**12**	**s.**	
Southwestern Division																					
Anderson 1½ mi sw	McDonald	1,000	41	69.6	− 3.1	91	27†	42	4	46	5.79	−0.14	2.01	16–17	0	12	14	10	6	sw.	Samuel G. Chamberlain
Appleton City	St. Clair	813	50	69.0	− 5.4	90	27	43	4	53	6.00	+0.98	1.48	16	0	14	5	9	16	sw.	Rolla Brown
Bolivar	Polk	1,071	42	70.4	− 2.4	90	27†	46	4	50	6.23	+0.92	1.44	16–17	0	14	4	16	10	sw.	Southwest Baptist College
Boonville	Cooper	650	7	67.8	......	90	27†	43	3†	68	5.80	+0.75	2.70	6–7	0	13	0	17	13	se.	Boonville Water Dept.
Carthage	Jasper	962	11	71.8	......	92	27	48	4	21	6.24	......	3.04	5–6	0	11	6	21	3	se.	Carthage W. and E. Plant
Clinton	Henry	786	52	69.6	− 4.2	92	27	43	4	58	6.60	+1.70	1.18	16†	0	11	2	15	13	s.	U. S. Weather Bureau
Eldon	Miller	934	50	69.7	− 3.3	92	27	43	4	46	5.45	+1.41	1.34	20	0	13	6^{b}	13^{b}	9^{b}	n.	E. H. Shepherd
Fort Leonard Wood	Pulaski	1,107	4	67.2^{b}	......	91^{b}	27†	41^{b}	4	4	6.86	......	1.51	8–9	0	13	8^{c}	3^{c}	16^{c}	sw.	U. S. Army Medical Corps
Harrisonville	Cass	904	67	67.4	− 5.7	91	27†	40	4	70	8.78	+3.99	1.63	7	0	16	1	5	24	se.	John H. Patterson
Jefferson City	Cole	557	55	68 8^{d}	− 5.0	91^{d}	28	45^{d}	4	63	7.24	+3.01	2.11	7	0	16	4^{e}	6^{e}	15^{e}	s.	Mrs. Frank Kliegel
Joplin	Jasper	1,008	23	73.4	0.0	91	27	51	4	40	6.45	+0.45	1.25	30	0	12	8	11	11	s.	Empire Dist. Electric Co.
Lakeside	Miller	595	14	69.2	− 5.8	92	27†	44	4	14	7.26	+2.65	2.43	7–8	0	15	4	13	13	sw.	W. S. Frame
Lamar	Barton	980	57	69.6	− 4.6	90	27†	48	4†	64	10.10	+4.56	2.79	5–6	0	12	7	17	6	se.	Mrs. Marie Mann
Lebanon	Laclede	1,265	57	68.4	− 4.3	90	28	42	4	58	5.48	+0.31	1.25	16–17	0	13	3	12	15	sw.	Mrs. Rosa E. Montelius
Lexington	Lafayette	688	60	69.8	− 3.1	92	27†	48	3†	61	3.98	−0.57	1.30	7	0	10	15	0	15	......	Tilton Davis
Lockwood	Dade	1,078	39	70.6	− 3.0	92	27†	45	4	49	6.78	+1.10	2.32	5–6	0	12	6	20	4	sw.	Hubert A. Nieman
Marshall	Saline	779	58	68.9^{b}	− 4.3	91^{b}	27†	39^{b}	4	55	8.01	+3.21	1.70	7–8	0	13	2^{b}	22^{b}	4^{b}	s.	Thomas A. Reid
Mountain Grove	Wright	1,463	44	69.0	− 2.8	88	27	42	4	48	9.71	+4.77	3.22	16–17	0	12	4	23	3	se.	Mo. Fruit Exp. Station
Mount Vernon	Lawrence	1,174	33	70.0	− 3.3	90	27†	46	4	45	7.47	+2.21	3.15	5–6	0	15	5	13	12	se.	James C. Williamson
Neosho	Newton	1,011	58	72.4	− 1.4	92	27†	48	4†	62	5.69	−0.28	2.02	5–6	0	10	7	18	5	sw.	U. S Fisheries Station
Nevada	Vernon	862	52	71.6	− 1.9	92	27	47	4	53	6.87	+1.42	2.40	16–17	0	16	9	11	10	ne.	Henry Kraft
Ozark Beach	Taney	700	5	71.2	......	94	28	50	3†	20	8.59	+2.71	2.10	5–6	0	12	3	16	11	se.	Empire District Elec. Co.
Sedalia	Pettis	910	32	69.4	− 4.8	92	27†	41	4	34	6.40	+1.12	1.27	6–7	0	20	8	8	14	sw.	Dr. J. E. Cannaday
Seligman	Barry	1,542	44	71.0	− 1.4	89	27	48	4	42	9.74	+4.79	2.11	1–2	0	12	8^{b}	14^{b}	6^{b}	s.	Floyd E. Fawver
Seymour. 3½ miles NE	Webster	1,642	39	67 3	− 4.4	89	28	42	4	39	8.25	+2.91	2.63	16–17	0	12	8	11	11	s.	A. L. Hailey
Springfield.. ½ mile E	Greene	1,301	57	68.8	− 2.9	90	28	45	4	57	7.25	+2.57	2.18	5–6	0	17	1	12	17	se.	U. S Weather Bureau
Sweet Springs	Saline	700	4	68.8	......	91	27†	48	3†	4	8.59	......	3.25	7	0	16	7	16	7	s.	H F. Nelson
Warrensburg	Johnson	878	58	69.4	− 4.5	91	27†	45	4	65	7.70	+2.64	1.40	8–9	0	17	4	15	11	se.	Central Teachers College
Warsaw	Benton	687	44	70.3	− 3.5	91	27†	42	4	50	5.94	+0.64	1.39	15–16	0	15	3	16	11	se.	Dora B. Johnson
Wasola	Ozark	1,294	4	69.8	......	90	30	47	4	5	8.02	......	1.71	17–18	0	11	7	15	8	s.	A. W. Pinckney
Division means and extremes		.....	..	**69.7**	**− 3.5**	**94**	**28**	**39**	**4**	..	**7.29**	**+2.19**	**4.06**	**6–7**	**0**	**14**	**6**	**13**	**11**	**se.**	
Southeastern Division																					
Advance.... ¼ mile W	Stoddard	354	8	71.9	......	92	27†	47	5	8	15.30	......	6.16	7–8	0	16	4	8	18	sw.	U. S. Weather Bureau
Arcadia	Iron	926	64	69.9	− 1.9	92	29	45	5	67	14.08	+9.94	4.20	7–8	0	12	7	5	18	e.	Arcadia College
Birch Tree... ½ mile E	Shannon	1,000	50	69.5^{b}	− 3.2	89^{b}	27	45^{b}	4†	51	10.01	+5.60	2.68	16–17	0	12	16^{a}	6^{a}	7^{a}	se.	R. C. Moger
Black.......9 miles NW	Iron	1,000	52	68.9	− 3.0	91	27†	42^{a}	5	52	16.50	+12.44	4.30	8	0	18	6	15	9	w.	Claude Volner
Campbell	Dunklin	314	19	74.6	− 0.9	95	27	47	5	19	13.00	+8.76	2.72	11	0	15	9	20	1	s.	Mrs. Ruth Christian
Caruthersville	Pemiscot	265	49	73.0	− 5.4	93	29	51	4†	53	9.21	+5.40	2.02	8–9	0	14	15	8	7	sw.	Victor T. Malloure
Crystal City	Jefferson	420	11	71.6	− 2.7	92	27†	47	4	11	4.94	−0.48	1.33	7	0	16	2	4	24	se.	Richard K. Ragland
Doniphan	Ripley	344	41	72.5	− 2.5	95	27	45	4	41	13.41	+9.05	2.96	9–10	0	14	17	8	5	sw.	Boyce Lackey
Farmington	St. Francois	896	34	70.2	− 2.6	91	29	45	5	48	8.91	+5.03	3.43	7–8	0	16	4	7	19	s	F. M. Karsch
Greenville	Wayne	460	36	71.4	− 2.2	92	28	44	4†	38	15.57	+10.88	4.96	7–8	0	13	10	9	11	s.	Beuford Shoemake
Jackson	Cape Girardeau	428	54	73.4	− 0.7	94	25†	48	5	55	8.28	+3.59	1.90	17	0	15	4	5	21	s.	John G. Putz
Koshkonong	Oregon	958	44	71.2	− 3.2	91	27	46	4	45	13.47	+8.97	2.34	10–11	0	15	9	6	15	se.	Mrs Genevieve T. Smith
Licking...... 4 miles N	Texas	1,170	8	69.4	......	91	30	39	4	8	6.23	+1.67	1.71	16–17	0	11	8	15	7	s.	U. S. Forestry Service
Malden....4 miles NNW	Dunklin	292	2	73.6	......	95	27	48	4	2	13.98	......	2.96	5–6	0	16	4	5	21	sw.	U. S. Weather Bureau

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Climatological Data for June 1945—Continued from preceding page

Stations	Counties	Elevation, feet	Temperature, in degrees, Fahr.: Length of record, years	Mean	Departure from the normal	Highest	Date	Lowest	Date	Precipitation, in inches: Length of record, years	Total	Departure from the normal	Greatest in 24 hours [4]	Date	Total snowfall, unmelted	Number of days: With precip., .01 inch or more	Clear	Partly cloudy	Cloudy	Prevailing direction of wind	Observers
Southeastern Division—	*Concluded*																				
Marble Hill	Bollinger	532	50	72.6	− 1.4	92	27	47	5	52	14.62	+10.14	2.60	16	0	14	11	13	6	sw.	R. A. DeWitt
Poplar Bluff	Butler	339	40	72.6	− 2.8	93	29	47	5	41	12.56	+8.44	3.91	9-10	0	11	14	8	8	s.	Joe Roehm
Rolla	Phelps	1,202	45	69.6	− 3.4	92	28	41	4	61	12.05	+7.64	2.85	7-8	0	14	3	23	4	sw.	Rolla School of Mines
St. Louis:																					
City Office		465	108	70.6	− 4.4	91	28	48	4	108	7.42	+3.60	1.72	7-8	0	17	2	9	19	sw.	**Section Center**
St. Louis Airport	St. Louis	556	8	69.8	− 4.2	92	29	47	4	14	7.87	+3.58	1.66	7	0	18	3	8	19	se.	U. S. Weather Bureau
St. Louis University	St. Louis City	578	33	70.3	− 4.9	91	27	48	4	33	7.28	+3.69	1.38	7	0	17	6	13	11	se.	St. Louis University
Salem	Dent	1,206	41	70.2	− 2.2	93	29†	42	4	44	10.80	+6.15	2.00	7-8	0	14	3	19	8	s.	E. E. Martin
Sikeston	Scott	318	38	73.5	− 0.8	94	30	47	5	48	16.33	+12.14	6.98	7-8	0	16	9	16	5	n.	Mrs. Lucy W. Humphreys
Union 1½ mi. SE	Franklin	520	7	70.5	......	92	28	42	4	28	6.59	+2.29	2.14	29-30	0	15	10	5	15	s.	Cornelius Sieges
Vichy 2 mi. NW	Maries	1,125	9	68.2	......	91	28	41	4	10	10.65	......	3.82	7-8	0	14	1	19	10	sw.	Civil Aeronautics Adm.
Wappapello Dam	Butler	475	6	72.2	......	92	27	47	4	6	13.20	......	3.50	7-8	0	12	10	7	13	sw.	U. S. Engineer Office
Weingarten	St. Genevieve	833	4	71.0	......	92	29	47	4†	5	8.15	......	2.00	30	0	14	7	14	9	s.	William J. Miller
West Plains	Howell	1,005	8	70.2	......	92	27	47	18	8	12.41	......	2.08	29	0	18	4	13	13	s.	U. S. Weather Bureau
Willow Springs 500 ft E	Howell	1,238	4	69.9	......	90	27	45	18	38	7.56	+2.73	1.81	16-17	0	10	10	8	12	s.	Allen Frazee
Cairo, Ill.	Alexander, Ill.	314	73	74.1	− 3.2	93	28	52	4	74	10.17	+6.34	2.06	16-17	0	16	5	12	13	sw.	U. S. Weather Bureau
Division means	**and extremes**	.....	..	67.4	− 5.0	95	27	39	4	..	11.02	+6.68	6.98	7-8	0	14	8	10	12	s.	
State means	**and extremes**	.....	..	69.5	− 4.1	95	27	37	4	..	8.84	+4.09	6.98	7-8	0	14	7	11	12	s.	

The departures from normal temperature are computed from the averages of the entire period for stations having 10 or more years of record. Departures of precipitation for stations with 15 years or more of record are computed from a normal or "standard mean", adjusted to a uniform 35-year period; for stations of 10 to 14 years the means for the period of record are used. The normal may be found by adding the departures when minus (−) or subtracting when plus (+). Figures and letters following stations indicate distance in miles and direction of station from the city Post Office, unless otherwise indicated. T. Trace or 0.005 inch or less. ᵃ, ᵇ, ᶜ, etc., number of days missing: for example, ᵇ, indicates two days missing. Italics data interpolated. § Partly interpolated. † And other dates. ‡ Received too late to be included in means and summaries. [4] Best available used for stations not equipped with recorders. Post office address of: Altona is Adrian; Crane Mountain is Arcadia; East End is Goodland; Eastwood Lookout is Van Buren; Ellsinore Lookout is Mill Spring; Farber is Laddonia; Hailey is Cassville; High Lookout is Birch Tree; Macedonia Lookout is Doniphan; Perry is Center; Pilot Knob is Ironton; Pineview Lookout is Duke; Sugar Camp Lookout is Cassville; Wilderness Lookout is Lampe.

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While there were no particularly severe and destructive general storms, the occurrences of local windstorms, thunderstorms, and hail were unusually frequent. Only one small local tornado occurred.

Sunshine was decidedly deficient, particularly in the central and southwestern portions of the State, and this, together with the persistent and heavy rainfall and subnormal temperatures, was very unfavorable for planting and cultivating all crops. Much of the corn, cotton, and soybean crop had not been planted by the close of the month and that portion which had been planted was becoming grassy and weedy, and in need of cultivation, which could not be done because of continued wet fields. Hay and small grain crops made good growth, but were in need of sunshine and warmer weather most of the month. Harvest of hay was very difficult, because of the frequency of the rains, and much of this crop was lost, or damaged, after being cut. Rust in wheat was rather serious and damaged that crop considerably. Fruit prospects were good, especially for peaches, at the close of June. Because of the lateness of the season, and the large amount of planting yet to be done, agricultural conditions at the end of June were in a very critical state and an unusually extended growing season will be essential in order to produce anything like a normal crop this year.—M. R. W.

TEMPERATURE

The monthly mean for the State, 95 stations reporting, was 69.5°, or 4.1° cooler than the 58-year June average. The highest monthly mean was 74.6° at Campbell, and the lowest was 65.2° at Maryville. The highest reported was 95° at Campbell, Doniphan, and Malden,on the 27th, and the lowest was 37° at Kidder and Lawson, on the 4th.

PRECIPITATION

The average for the State, 212 stations reporting, was 8.84 inches, or 4.09 inches more than the 58-year June average. The greatest monthly amount was 17.16 inches at Greenville No. 2, and the least was 3.68 inches at Osceola. The greatest amount reported in 24 hours was 6.98 inches, at Sikeston, on the 7-8th. The average number of days with 0.01 inch, or more, was 14.

MISCELLANEOUS PHENOMENA

Floods.—In Black River, 8th to 15th; 18th to 21st. In Bourbeuse River, 9th to 11th. In Current River, 11th to 12th; 18th to 19th. In Grand River, 7th to 14th; 16th to 24th. In Meramec River, continued from May to June 1st; 8th to 15th. In Mississippi River, in reach Keokuk to New Madrid, in flood at one or more points from May into July. In Missouri River, in reach below Hermann, continued from May to June 2d; 8th to 16th; 18th to 26th; in reach St. Joseph to Waverly, 17th to 22d; in reach Waverly to Hermann, 10th to 12th; 17th to 24th. In Osage River, continued from May to June 1st; 8th to 11th; 18th to 22d. In St. Francis River, at Fisk, continued from May to June 5th; 22d and continued into July.

Fogs.—Heavy, 7th, 8th, 9th, 12th, 13th, 15th, 17th, 18th, 19th, 21st, 25th, 27th, 29th.

Hail.—Light, on 1st at Vichy, Bolivar, Marshfield, Fayette, Warrenton; 2d at Seligman; 4th at Hailey; 5th at Anderson, Shell Knob, Warrensburg, Oregon; 6th at Lockwood, Marshall, Sweet Springs, Warrensburg, Amity; 7th at Koshkonong, Rolla, St. Louis Airport, Crocker, Eldon, Harrisonville, Sedalia, Warrensburg, Auxvasse, Brunswick, Kansas City, Mexico, Steffenville; 8th at Rolla, Warrensburg, Amity; 9th at Rolla, Bolivar, Saunders Lookout, St. Joseph; 11th at Hailey; 15th at Lawson, St. Charles, St. Joseph; 18th at St. Louis Airport, Springfield, Auxvasse, Midway; 20th at Eldon; 27th at Amity, Steffenville; 29th at Albany, Conception, Mexico; 30th at Brunswick, Kansas City, Lawson, Macon. Moderate, on 5th near Oregon; slight damage to crops. Heavy, 8th, 9th, 29th-30th. (See special hailstorm notes).

Tornado.—15th. (See special windstorm and tornado notes).

Windstorms.—1st, 7th, 9th, 10th, 15th, 16th, 18th, 27th, 30th. (See special windstorm and tornado notes).

WINDSTORMS AND TORNADO

On the 1st, about 10:30 p. m. (C. W. T.), a windstorm occurred in St. Charles and St. Louis counties and in St. Louis and East St. Louis, Ill., blowing down and breaking many trees

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Daily Precipitation for June 1945

Stations	Drainage basins	Day of month																															Total
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	..	
Northern Division																																	
Albany	Grand	....	.07	....	....	.35	.04	.42	....	1.06	.03	....	....	....	....	2.17	.38	.07	.10	....	.16	....	....	....	.18	.40	....	....	....	.14	.48	....	6.05
Amity[2]	do	T.	T.	....	....	T.	.36	2.65	T.	1.10	.73	....	....	....	....	....	2.56	*T.*	....	.27	.02	.21	....	T.	T.	1.08	....	.84	....	.07	.08	....	9.97
Auxvasse	Missouri	....	.05	....	....	.34	.04	2.95	.01	.27	.29	....	T.	....	....	T.	.03	.22	.68	....	.12	....	....	....	T	....	....	.17	....	T.	.93	....	6.10
Bethany	Grand	....	*.06*	....	....	*.36*	*.05*	*.81*	*.01*	*.96*	*.10*	....	....	....	....	1.52	1.15	....	.09	....	.40	....	....	....	.10	.29	....	....	....	T.	1.14	....	§7.04
Bowling Green[2]	Mississippi	....	1.03	....	....	....	.38	2.17	.61	.81	.43	....	....	.27	....	....	1.02	.02	.23	.44	....	....	....	....	....	.04	....	.18	.01	.01	.22	....	7.87
Brookfield[2]	Grand	....	....	....	....	....	.30	1.05	.10	....	.94	....	....	....	....	1.45	....	.25	....	.14	....	.12	....	....	....	.10	....	1.10	....	.14	.65	....	6.34
Browning 3 mi. NE	do	T.	T.	....	T.	.33	.05	1.10	.10	1.29	....	....	....	....	T.	1.44	2.40	....	.37	....	.69	....	....	....	.78	.11	T.	.05	....	.10	.26	....	9.07
Brunswick[2]	do	....	....	....	....	....	.52	1.56	.18	1.28	.33	....	....	....	....	....	1.76	.27	.08	.23	T.	.12	....	T.	....	.37	....	.70	.53	.27	1.37	....	9.57
Canton, Lock No. 20[2]	Mississippi	....	....	....	....	....	.07	1.32	.70	.73	1.96	....	....	....	....	....	2.50	.04	....	....	.43	.07	....	....	....	.65	....	.07	....	.28	.51	....	9.33
Centralia[2]	do	....	.16	....	....	....	.28	2.65	.27	.33	.80	....	....	....	....	....	1.05	....	....	.66	....	....	....	....	....	.84	....	.30	.11	.28	.51	....	8.24
Chillicothe[2] (A)	Grand	....	....	....	....	....	.33	1.62	.08	.78	.56	....	....	....	....	....	.42	.94	.29	.04	.04	.19	....	....	....	.34	....	.21	....	.13	.58	....	6.55
Chillicothe[2] (B)	do	....	....	....	....	....	.40	1.80	.22	.70	.56	....	....	....	....	....	2.06	.20	.29	T.	.06	.83	....	....	....	.22	....	.42	....	.15	.84	....	8.75
Clifton Hill	Chariton	....	.12	....	....	.43	.18	3.42	.56	.40	.20	....	.04	....	.01	1.00	.41	.02	.80	.03	.11	.07	....	....	.40	....	....	.58	.02	.78	1.43	....	11.01
Columbia[1], [5]	Missouri	.07	....	....	....	.23	.02	3.19	.14	.33	.01	....	T.	.18	....	.01	.28	.09	.19	....	.25	.01	....	....	1.98	....	T.	.17	.06	.27	2.02	....	9.50
Columbia 9 mi. WNW	do	....	.14	....	....	.32	.03	3.21	.01	.31	.11	....	....	....	.05	.04	.22	.10	.17	.04	.09	....	....	....	.67	T.	....	.17	....	.20	.63	....	6.51
Conception	do	....	....	.06	T.	.49	.06	.65	T.	.51	....	....	....	....	T.	2.45	.41	....	.23	....	.17	....	....	....	.15	T.	....	....	....	.28	.78	....	6.24
Edgerton	do	....	....	....	....	.36	.05	.57	....	.87	....	....	....	....	....	1.27	1.02	....	.25	....	.05	....	....	....	1.12	....	....	.46	....	.26	1.50	....	7.78
Edina[2]	Mississippi	....	....	....	....	....	.18	1.94	.57	1.44	.57	....	....	....	....	....	2.89	.12	....	.23	.14	.15	....	....	....	.19	....	.08	....	.14	.65	....	9.29
Elsberry	do	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Elsberry S. C. S.[2]	do	....	.07	....	....	....	.07	1.77	1.07	.90	.81	....	....	.42	....	....	1.38	.10	.27	.05	....	.30	....	....	....	....	....	.15	....	....	.18	....	7.54
Farber[2] 1 mile N	do	....	*	....	....	....	.65	2.25	....	.07	.51	....	....	T.	....	....	.80	*	.20	.34	....	.03	....	....	....	....	....	*	.27	.16	.18	....	5.46
Fayette	Missouri	.60	....	....	T.	.36	.11	1.88	.05	.30	.36	....	....	....	....	.09	.52	....	T.	....	.01	....	.19	....	.24	....	....	.37	....	1.40	1.03	....	7.51
Fulton[2]	do	....	.21	....	....	....	.19	2.65	.18	.05	.47	T.	....	.03	....	....	.05	.60	.13	.01	*T.*	.16	....	....	....	.01	....	.12	....	.02	1.42	....	6.30
Gallatin[2]	Grand	T.	....	....	....	....	.28	1.67	....	.52	1.27	....	....	....	....	....	2.31	....	T.	.25	....	.27	....	....	....	1.00	....	.73	....	.12	.16	....	8.58
Grant City	do	....	.10	....	T.	.37	.05	1.00	.03	.33	.09	....	....	....	....	1.05	.91	....	.04	....	.90	....	....	.10	....	.16	....	.10	....	....	.43	....	5.66
Hannibal[1] (A)	Mississippi	.18	....	....	....	.21	....	1.54	.44	3.40	....	....	....	....	....	1.93	.80	.01	.08	....	.05	....	....	....	....	....	....	.36	....	.09	1.71	....	10.80
Hannibal[2] (B)	do	....	.20	....	....	....	.10	1.65	1.05	2.75	1.25	....	....	T.	....	....	2.48	T.	T.	T.	....	T.	....	....	....	....	....	.33	T.	.20	.22	....	10.23
Hermann[2]‡	Missouri	....	.62	....	....	....	....	1.50	.87	.08	.46	....	....	.12	....	....	....	.57	.40	.04	....	.57	.03	....	....	....	.02	.42	....	....	1.10	....	6.80
Kahoka[2]	Mississippi	*T.*	....	....	....	....	....	1.15	.30	.75	*T.*	....	....	....	....	....	3.50	2.15	....	....	.15	....	....	....	....	.20	....	....	.05	.10	.12	....	8.47
Kansas City Airport[1], [5]	Missouri	....	....	....	T.	.03	.14	1.47	.05	.32	....	....	....	....	T.	.57	.71	....	.10	T.	.02	....	....	T.	.72	....	.59	.33	.12	.13	.75	....	6.05
Kansas City University	do	....	....	....	....	.03	.09	1.09	.01	.47	....	....	....	....	....	1.19	.57	T.	.05	....	.08	....	....	T.	.22	....	....	.82	....	.33	1.60	....	6.55
Kidder[2]	Grand	....	....	....	....	T.	.46	1.61	.03	.08	.71	.01	....	....	....	....	2.00	.10	....	.17	T	.09	....	....	....	.65	....	.41	....	.19	.06	....	6.57
King City	Missouri	....	T.	....	.31	T.	....	1.75	....	*	1.42	....	....	....	.42	1.82	1.34	....	.32	....	.23	....	....	....	.11	.15	....	....	T	....	2.70	....	10.57
Kirksville	Mississippi	....	....	....	....	.24	.07	1.21	.66	1.11	T.	....	....	....	....	.78	4.37	....	*	.08	.52	....	....	....	.19	.24	T.	.05	....	.12	1.05	....	10.69
Knoxvillle[3]	Missouri	....	....	....	T	.33	.09	.16	.52	.35	....	....	....	....	....	1.76	.45	....	.07	....	.04	....	....	....	.26	....	.05	.15	.11	1.44	.93	....	6.71
LaBelle[2]	Mississippi	....	....	....	....	....	....	2.70	1.50	.90	.80	....	....	.61	....	....	3.60	T.	....	....	.18	....	....	....	....	.50	....	....	....	T.	.98	....	11.77
Lawson	Missouri	....	....	....	T.	.39	.13	.42	.05	.49	....	....	T	....	....	1.90	1.07	....	.11	....	.10	....	....	....	.70	.09	T.	.31	....	.25	3.09	....	9.10
Linneus[2]	Grand	....	....	....	....	....	.38	1.59	.09	2.20	.20	....	....	....	....	....	1.72	....	.25	.27	.11	.20	....	....	....	.85	....	*	1.20	....	.20	....	9.26
Louisiana[2] (A)	Mississippi	....	1.26	....	....	....	.40	1.31	.76	1.77	....	.61	....	.19	....	T.	2.20	....	.23	.30	....	.03	....	....	....	....	....	.17	.06	.06	.14	....	9.49
Louisiana[2] (B)	do	....	1.20	....	....	....	.31	1.01	1.26	2.27	.80	....	....	.18	....	....	2.02	.03	.15	.42	....	.03	....	....	....	....	....	.16	.08	.05	.13	....	10.10
Lucerne[2]	Grand	....	....	....	....	....	*.22*	*1.48*	....	*.69*	*.84*	....	....	....	....	....	2.85	.73	.15	....	....	....	....	....	....	1.27	....	....	....	....	.48	....	§8.71
Macon[2]	Chariton	....	....	....	....	....	.47	1.05	.79	1.69	.46	....	....	....	....	....	1.55	.08	....	.19	.03	.10	....	T.	....	.05	....	.30	.11	.31	.95	....	8.13
Madison[2]	Mississippi	....	.52	....	....	.56	2.15	.70	.75	....	....	....	....	....	.30	....	1.40	.15	....	.17	....	.05	....	....	....	1.25	....	.40	....	1.00	.70	....	10.10
Martinsburg[2]	Missouri	....	.10	....	....	T.	.26	2.00	.01	.02	.86	....	....	.03	....	T.	T.	.22	.05	.24	....	.03	....	....	....	....	....	.19	T.	.01	.54	....	4.56
Maryville	do	....	.13	....	T.	.55	.04	.65	.02	.70	....	....	....	....	....	1.26	.53	....	T.	....	.39	....	....	....	.67	.07	....	....	....	....	.61	....	5.62
Memphis[2]	Mississippi	....	....	....	....	....	.17	1.32	.51	1.06	.02	....	....	....	....	....	3.53	....	.05	....	1.17	.43	....	....	....	.22	....	.03	....	T.	T.	....	8.51
Mexico[2]	do	....	.15	....	....	....	.28	2.00	.21	.36	.81	....	....	....	....	....	.37	.12	.03	.12	....	.06	....	....	....	T.	....	.27	.01	.11	.27	....	5.17
Milan[2]	Grand	....	....	....	....	....	.32	1.83	....	.45	.33	....	....	....	....	....	3.43	....	....	....	1.14	.18	....	....	....	1.09	....	....	....	.10	.41	....	9.28
Moberly[2] 3½ mi. NE	Mississippi	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Monroe City	do	....	.07	....	....	.38	.06	1.61	.28	2.28	.03	....	....	....	....	1.42	1.76	.03	.54	....	.09	....	....	....	.07	....	....	.44	....	.26	1.14	....	10.46
New Florence[3], [5] 1 mi SE	Missouri	.37	....	....	T.	.26	.03	2.47	.13	.46	.09	.01	.10	....	T.	.37	.26	.42	.25	....	.07	....	....	....	....	T.	....	.15	....	.04	1.35	....	6.83
Oregon	do	....	T.	....	....	.13	....	1.40	....	.67	....	....	....	....	....	3.07	1.03	....	.40	....	.18	....	....	.02	.03	....	....	.10	....	.10	.37	....	7.50
Palmyra	Mississippi	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Paris[2]	do	....	.38	....	....	....	.58	1.50	.61	1.21	.47	....	....	.02	....	....	1.41	.11	....	.73	....	.06	....	....	....	.69	....	.39	.06	.32	.37	....	8.91
Perry 1 mile E	do	....	.30	....	....	.35	.32	3.55	....	1.87	....	....	....	....	....	.75	.85	1.60	....	....	....	....	....	....	....	....	....	.33	....	.10	.45	....	10.47
Philadelphia[2]	do	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
St. Charles[2] (A)	Missouri	....	.29	....	....	....	.20	1.40	.40	T.	.31	.05	....	.44	.01	....	1.38	.67	.30	.35	....	.03	.03	....	....	....	....	.15	....	....	.17	....	6.18
St. Charles[2] (B)	do	....	.29	....	....	....	.18	1 03	.77	T	.30	.05	.02	.67	T.	....	1.39	.94	.42	.43	....	.01	....	....	....	....	....	.15	.01	....	.06	....	6.72
St. Joseph[1], [5]	do	....	....	....	....	.42	.72	.22	.99	1.85	....	....	....	....	T.	2.71	.55	....	.20	....	.12	....	....	....	.03	....	T.	.48	.02	1.06	.73	....	10.10
Saverton, Lock No. 22[2]	Mississippi	....	.33	....	....	....	.16	1.10	1.33	3.45	.94	....	....	.01	....	....	2.75	.07	.02	.11	....	.08	....	....	....	....	T.	.20	.05	22	.20	....	11.02
Shelbina	do	....	....	....	T.	.40	.02	1.65	36	2.97	.02	....	....	....	....	1.21	1.27	....	1.61	....	.09	....	....	....	.37	....	....	.39	....	.17	1.44	....	11.97
Shelbyville[2]	do	....	....	....	....	....	.58	1.30	.53	1.02	.47	....	....	....	....	....	3.12	....	....	.39	....	.14	....	....	....	.41	....	....	.37	.21	.94	....	9.48
Steffenville	do	....	....	....	....	.12	.10	1.98	.28	1.53	.13	....	.15	....	....	.65	1.85	....	.05	....	.34	....	....	....	.11	.52	....	.20	....	.29	.94	....	9.24
Tarkio[3]	Missouri	.55	....	....	T.	.41	T.	.68	.15	.63	....	....	....	....	....	1.90	....	....	.02	....	.56	....	....	....	.17	....	.52	....	T.	T.	.82	....	6.41
Trenton[2]	Grand	....	....	....	....	....	.32	1.02	....	1.50	.59	....	....	....	....	....	3.37	....	.19	.21	.45	.11	....	....	....	1.38	....	....	....	.14	.08	....	9.36
Troy[2]	Mississippi	....	.40	....	....	....	.55	1.10	.70	....	....	.80	....	.50	....	....	.30	.35	.20	.06	....	.05	....	....	....	....	....	.18	T.	....	.10	....	5.29
Unionville[2]	Chariton	....	....	....	....	....	.35	1.80	.15	1.35	....	....	.06	....	....	....	3.75	.06	.02	....	1.13	.63	....	....	....	.49	....	.03	....	.03	.26	....	10.11
Vandalia	Mississippi	....	*.49*	....	....	*	*.44*	2.48	....	.36	....	.23	....	....	....	.47	.47	.09	.43	....	.04	....	....	....	....	....	....	.28	....	.19	.26	....	§6.23
Warrenton	do	....	1.10	....	....	.28	.06	1.97	.01	.34	.02	.02	.39	....	....	.03	.02	.93	.04	....	....	.06	....	....	....	....	....	.15	....	.02	.51	....	5.95
Keokuk. Iowa[1]	do	....	T.	....	....	.05	.76	.63	.22	1.69	....	....	.03	....	....	1.93	1.29	....	....	....	.43	....	....	....	.90	.03	T.	.06	.24	.05	.95	....	9.26
Southwestern Divis																																	
Altona[2]	Osage	....	....	....	....	....	.21	.90	....	.27	.80	....	....	....	....	.27	*	.62	T.	....	T.	....	....	....	.24	.40	....	.85	....	.49	.58	....	5.63
Anderson[2] 1½ mi. SW	Neosho	....	.22	....	....	....	1.16	....	....	.08	.70	.60	.34	.06	....	....	....	2.01	....	T	....	.10	.25	....	....	....	....	....	....	.17	.10	....	5.79
Appleton City	Osage	....	....	....	....	.38	.18	.30	.08	.82	.50	....	....	....	....	.12	1.03	.50	.04	....	....	....	....	T.	.25	....	....	.60	....	.80	.40	....	6.00
Ava Ranger Station[2]	White	....	.20	....	....	....	2.00	....	T.	.50	.85	1.20	.15	....	.05	....	....	2.40	.20	.35	....	T.	.70	....	....	.40	....	....	....	....	1.55	....	10.55
Bolivar	Osage	....	.74	T.	....	.10	.04	.13	.01	1.35	.21	.33	T.	T.	....	....	.17	1.44	.54	....	....	....	....	....	.30	T	....	....	....	.66	.21	....	6.23
Boonville[2] (A)	Missouri	....	.12	....	....	....	.30	2.70	.08	.22	....	.22	....	....	....	....	.08	.40	....	.05	....	....	....	....	....	.38	....	.13	....	.72	.40	....	5.80
Boonville[2] (B)	do	.82	.02	....	....	....	.14	1.03	1.29	.95	.56	....	....	.19	T.	T.	1.39	.03	.03	....	....	.12	....	....	....	T.	T.	.03	.03	1.38	.82	....	8.33
Bradleyville[2]‡	White	....	.40	....	....	....	1.05	....	....	*	.65	1.30	.20	T.	....	....	....	.80	.10	.10	....	....	.25	....	....	....	....	....	....	....	1.03	....	5.88
Buffalo[2]	Osage	....	.27	....	....	....	1.71	....	.32	09	.90	.39	....	....	....	....	....	1.20	.26	.16	....	....	....	....	....	.47	....	....	....	.29	.10	....	6.16
Butler[2]	do	....	....	....	....	....	1.18	.54	....	.56	T.	....	....	....	....	.22	.24	.78	....	....	....	.24	....	....	....	.35	....	.36	....	.24	.26	....	4.97
Caplinger Mills[2]	do	....	.17	....	T.	....	.43	.18	T.	.65	.47	.21	....	....	....	....	T.	1.53	....	.11	....	....	....	....	.18	....	....	....	....	.32	.49	....	4.74
Carthage	Neosho	....	.04	....	....	.87	2.17	....	....	.11	.40	.96	....	....	....	.11	.05	.45	....	....	....	....	....	....	....	....	....	....	....	.39	.69	....	6.24
Cassville[2]	White	....	.15	....	....	....	1.85	....	....	.27	1.48	.93	.26	....	....	.07	....	2.15	.04	....	....	....	.32	....	....	....	....	....	....	.10	1.12	....	8.74
Clinton[3]	Osage	....	....	....	....	.30	T.	.59	.05	.55	T.	....	T.	....	....	T.	1.18	....	T.	....	.65	....	T.	....	.93	....	T.	1.18	.73	.35	.09	....	6.60
Concordia	Missouri	....	....	....	....	.07	....	4.06	.23	.28	....	....	....	....	....	.05	*	.44	.14	....	.04	T	....	....	T.	....	....	.51	....	.34	.32	....	6.48
Crocker	Osage	....	1.13	....	....	.48	.58	1.10	2.36	.64	....	.27	.25	....	....	....	.19	1.07	.25	.23	....	....	....	....	....	....	....	....	....	.75	.17	....	9.47
Eldon	Missouri	....	....	....	....	.31	.29	.68	.64	.77	....	.04	T.	T.	....	.07	.11	.59	.04	....	1.34	....	....	....	....	....	....	.26	....	....	.31	....	5.45
Eldorado Springs	Osage	....	....	T.	....	.39	....	.19	T.	.66	.66	.07	T.	T.	....	.05	1.15	.67	.27	....	.02	....	....	.05	.45	....	....	....	....	.30	.29	....	5.22
Elijah[2]	White	....	.25	....	....	....	1.12	....	.45	.45	1.13	1.80	.28	....	....	....	....	2.30	....	.22	....	....	....	....	....	....	....	....	....	....	1.22	....	9.22
Fort Leonard Wood[2]	Gasconade	....	.28	....	....	....	.44	....	1.00	1.51	.48	.30	....	.25	....	T.	T.	*	.90	.50	....	.47	....	....	....	.03	....	....	....	.70	....	....	6.86
Galena[2]	White	....	.02	....	....	....	3.02	....	....	.11	.55	.31	.22	.10	.05	.37	....	1.80	.06	.06	....	....	.05	....	....	....	....	....	....	....	.85	....	7.57
Granby[2]	do	....	.08	....	....	....	2.50	....	....	.05	.02	.80	.30	....	.12	....	....	2.75	....	....	....	.05	....	....	....	....	....	....	....	....	.82	....	7.49
Hailey	do	.05	....	....	2.61	1.10	....	....	....	1.86	T	1.10	....	....	....	....	....	3.02	....	....	....	.36	....	....	....	....	....	....	....	.47	.41	....	10.98
Harrisonville[2]	Osage	....	....	....	....	....	.18	1.38	.25	.65	.31	....	....	....	....	.75	.39	.67	....	.12	.45	.90	....	....	.21	.49	....	1.32	.56	....	.15	....	8.78
Jefferson City[2] (A)	Missouri	....	....	....	....	....	.17	1.20	2.11	.14	.67	.05	....	.04	....	....	.02	.68	.25	.08	....	.16	....	....	....	....	.74	....	.81	.02	.10	....	7.24
Jefferson City[2] (B)	do	....	T.	....	....	....	.18	1.21	1.81	.13	.65	.03	....	.04	T.	....	.02	.76	.12	.07	T.	.24	.06	....	....	T.	....	.63	....	T.	.05	....	6.00
Joplin[1]	Neosho	.12	....	....	....	1.04	1.15	....	.03	.32	1.10	.24	.02	....	....	....	.77	....	....	....	.04	....	....	....	....	....	....	....	....	.37	1.25	....	6.45

Continued on next page

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Stations	Drainage-basins	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	..	Total
Southwestern Division—	*Concluded*																																
Lakeside[2, 5]	Osage	....	T.	....	....	T.	.55	.65	1.78	1.20	.85	.10	....	.08	....	....	.02	.66	.04	.25	....	.85	....	....	....	.04	T.	.05	....	.14	T.	....	7.26
Lamar[2]	Neosho	....	.04	....	....	....	2.74	.05	....	.54	.61	.53	....	....	....	.52	.12	2.50	....	....	....	....	....	....	.04	....	....	....	....	.55	1.86	....	10.10
Lebanon[2]	Osage	....	.18	....	....	....	.25	....	1.16	.35	.91	.40	....	.02	....	....	....	1.19	.06	.02	....	....	T.	....	....	.58	....	....	....	.24	.12	....	5.48
Lexington[2]	Missouri	....	....	....	....	....	.20	1.30	....	.20	....	....	....	....	....	....	.70	.40	....	.20	....	....	....	....	.15	....	....	.40	....	.30	.13	....	3.98
Lockwood	Osage	....	.23	T.	....	1.60	.72	....	....	.28	.43	.40	....	....	....	.08	.55	1.45	.07	....	T.	....	....	....	T.	....	T.	....	....	.27	.70	....	6.78
Mansfield[2]	White	....	.12	....	....	....	1.81	....	.12	.13	1.03	.80	....	.19	....	....	....	2.99	.23	.26	....	T.	....	....	....	.13	....	....	....	....	.63	....	8.44
Marshall	Missouri	....	....	....	....	.31	.35	1.45	1.70	.30	....	....	T.	....	....	.70	.30	.32	T.	....	.06	....	T.	....	*	....	....	.36	....	1.60	.56	....	8.01
Marshfield[2]	White	....	.12	....	....	....	.65	....	.10	....	.43	.53	T.	.03	....	.23	....	....	1.90	.17	....	....	....	....	....	.20	....	....	....	.06	....	....	4.42
Mountain Grove[2]	Gasconade	....	.27	....	....	....	1.12	....	1.40	.08	.78	.81	....	.49	....	T.	....	3.22	.15	.47	....	....	....	....	....	.40	....	....	....	....	.52	....	9.71
Mount Vernon[2]	Neosho	....	....	....	....	....	3.15	....	.06	.15	.25	.58	.29	....	....	.07	....	1.65	....	....	.04	.09	.11	....	....	.22	.01	....	....	.65	.15	....	7.47
Neosho	do	....	T.	....	....	1.22	.80	....	....	.15	.23	.94	.07	....	....	....	....	1.67	....	....	....	.08	....	....	T.	....	T.	....	....	.35	.18	....	5.69
Nevada	Osage	....	....	T.	....	.71	.07	.07	T.	.80	.03	.03	....	....	.02	.72	1.80	.60	.17	....	.02	....	....	.04	.11	....	T.	....	....	1.10	.58	....	6.87
Osceola[2]	do	....	....	....	T.	....	.92	.19	.11	.22	.40	.03	....	....	....	....	.21	.97	....	.04	....	T.	....	....	....	.31	....	.07	....	.21	....	....	3.68
Ozark[2]	White	....	.16	....	....	....	3.20	....	....	.07	.57	.82	....	.12	....	....	....	1.75	.27	....	....	....	....	....	....	....	....	....	....	....	1.33	....	8.29
Ozark Beach[2]	do	....	.27	....	....	....	2.10	....	....	.70	.82	1.40	.24	.07	....	....	....	.86	.11	.87	....	....	.46	....	....	....	....	....	....	....	.69	....	8.59
Pierce City[2]	Neosho	....	.02	....	....	....	3.21	....	....	.04	.63	.91	....	....	....	.01	....	2.38	....	....	.20	....	....	....	....	....	....	....	....	.14	1.10	....	8.64
Pineview Lookout	White	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Pleasant Hill[2]	Osage	....	....	....	....	.01	.05	2.10	.02	.66	.20	....	....	....	....	....	.24	.80	....	.30	.17	.08	....	....	T.	.04	....	.77	.02	.48	.06	....	6.00
Roby	Gasconade	T.	.05	....	....	.19	.43	.89	.07	.49	.02	.41	.31	....	T.	.02	T.	1.78	....	.09	....	....	....	....	....	.10	....	....	....	.08	.13	....	5.06
St. Thomas[2]. 2¼mi SW	Osage	....	.45	....	....	....	.52	1.22	1.51	.24	.45	.11	....	....	....	....	....	.94	.80	.36	....	.54	....	....	....	.80	....	.11	....	.70	....	....	8.75
Saunders Lookout[2]	White	....	....	....	....	....	1.50	....	.15	....	1.40	.65	....	....	....	....	....	1.65	.02	....	....	....	....	....	....	....	....	....	....	....	1.30	....	6.67
Sedalia	Missouri	....	....	....	....	.17	.04	1.23	.40	.38	.83	....	.24	....	....	.05	*	.75	.03	.07	.10	.20	.21	....	.05	....	*	.62	....	.86	.17	....	6.40
Seligman[2]	Neosho	....	2.11	....	....	....	1.01	....	....	.18	1.94	.84	.56	....	....	....	....	1.35	.12	.20	....	....	1.05	....	....	....	....	....	....	.12	.26	....	9.74
Seymour[2]...3½ mi. NE	White	....	.13	....	....	....	2.13	....	.14	.06	.90	.77	....	.05	....	....	....	2.49	.14	....	.60	....	....	....	....	.28	....	....	....	....	.56	....	8.25
Shell Knob[2]...3 mi. SE	do	....	.32	....	....	....	2.00	....	....	.35	1.42	.98	.22	.05	....	....	....	2.01	.21	....	....	....	.42	....	....	....	....	....	....	....	.32	....	8.30
Siloam Sprgs Lookout[2]	do	....	....	....	....	....	1.22	....	.97	1.34	1.91	1.43	....	.84	....	.06	....	2.00	.27	.54	....	....	....	....	....	.25	....	....	....	....	1.56	....	12.39
Springfield[1, 5]...½ mi. E	do	.02	....	T.	....	1.06	1.12	.02	.03	22	.45	.10	.01	....	T.	.11	1.51	.32	.63	....	T.	.01	T.	....	.73	T.	....	....	....	.48	.43	....	7.25
Stover[2]	Missouri	....	....	....	....	....	.48	1.01	.03	1.16	.21	....	....	....	....	....	*	.95	*.03*	*.25*	....	*.53*	....	....	....	.72	....	.88	....	.09	....	....	§6.34
Swan Tower Lookout[2]	White	....	.15	....	....	....	1.60	....	....	.15	1 00	1.05	.17	.15	....	....	....	1.35	.20	....	....	....	.27	....	....	....	.04	....	....	....	.88	....	7.01
Sweet Springs	Missouri	....	....	....	....	.09	.27	3.25	.51	.25	1.28	....	....	....	....	.11	.44	.09	.03	.15	.07	....	....	....	.92	....	....	.42	....	.61	.10	....	8.59
Tecumseh[2]...¼ mi. W	White	....	.34	....	....	....	1.19	.07	....	.89	.87	2.08	.15	.58	....	....	....	1.96	....	....	....	....	.39	....	....	.28	....	....	....	....	....	....	8.80
Topaz[2]	do	....	.21	....	....	....	1.03	....	.93	.20	.70	1.07	*	.44	....	....	....	1.75	.20	.67	....	....	....	....	....	.16	....	....	....	....	.70	....	8.06
Vanzaut[2]....3¾ mi. SE	do	....	.24	....	....	....	1.14	....	.72	.32	.69	1.19	....	.40	....	....	....	2.40	.28	.77	....	....	....	....	....	.40	....	....	....	....	1.66	....	10.21
Warrensburg	Missouri	....	....	....	....	.09	.29	1.00	.98	.42	.91	....	....	....	....	.75	.64	.07	.06	.15	.52	.11	....	....	....	.14	T.	.83	....	.53	.21	....	7.70
Warsaw[2] (A)	Osage	....	....	....	....	....	.73	.85	.20	.26	.72	....	....	....	....	....	1.04	.35	....	.04	*	.25	....	....	.36	.33	....	.45	....	.34	.02	....	5.94
Warsaw[2] (B)	do	....	....	....	....	....	.33	.37	.99	.27	.74	....	....	....	....	....	....	1.19	*.04*	*.04*	....	*.25*	....	....	....	1.17	....	.61	....	.24	.08	....	§6.35
Wasola[2]	White	....	.10	....	....	....	1.49	....	....	....	1.02	1.24	.08	....	....	....	....	1.51	.20	.21	....	....	.98	....	....	.17	....	....	....	....	1.02	....	8.02
Waverly[2]	Missouri	....	....	....	....	.23	.64	....	.10	.10	....	....	....	....	....	....	.36	.44	....	.47	....	.16	....	....	....	.25	....	.35	....	.25	.68	....	4.03
Wilderness Lookout[2]	White	....	1.05	....	....	....	1.60	....	....	.52	2.19	1.30	.68	.14	....	....	....	1.59	.20	....	....	....	.74	....	....	....	....	....	....	....	.54	....	10.55
Southeastern Division																																	
Advance[3].....¼ mile W	St. Francis	T.	.08	....	....	.35	.32	2.57	5.02	1.23	.39	1.19	.01	.24	T.	T.	2.23	.81	.59	.13	....	....	....	....	....	.09	....	....	....	....	.05	....	15.30
Alton(1)....10 miles SE	Black	....	.16	....	....	.31	.40	.81	.02	1.91	2.10	1.93	.13	.09	.38	.01	....	1.49	....	.50	....	.01	....	....	....	.03	....	....	....	.23	.60	....	11.11
Alton(2)[2] ...7 miles NE	do	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Annapolis[2].....7 mi. W	do	....	.78	....	....	....	1.90	.03	4.35	1.43	1.99	.81	T.	.24	.21	.05	....	1.64	....	.95	....	....	T.	....	....	....	....	....	....	....	.15	....	14.53
Arcadia[2]	St. Francis	....	.11	....	....	....	.66	.36	4.20	1.85	2.50	.63	....	.43	.20	....	....	2.11	....	.92	....	.11	....	....	....	....	T.	....	....	....	T.	....	14.08
Belleview[2]	Meramec	....	.12	T.	....	....	.67	.70	3.38	4.32	1.24	.53	....	1.04	.03	.34	....	1.08	.06	.60	....	....	....	....	....	....	.06	....	....	....	.18	....	14.35
Bernie[2]	St. Francis	....	.21	T.	....	....	2.64	.19	2.49	2.61	1.63	2.15	.15	.89	....	.11	....	1.88	.26	....	.29	....	1.08	....	....	....	.10	....	....	....	.10	....	16.78
Birch Tree[2] ...½ mile E	Black	....	....	....	....	....	1.00	....	.78	.62	2.42	1.28	....	.41	.31	T.	....	2.60	.08	.33	....	T.	....	....	....	.03	....	....	....	....	.15	....	10.01
Black...... 9 miles NW	do	....	.05	....	....	.38	.75	2.09	4.30	.62	1.65	.51	1.75	....	1.06	.03	.21	1.27	.64	.35	.02	.05	....	....	....	....	....	....	....	....	.77	....	16.50
Bloomfield[2]	St. Francis	....	.63	....	....	....	1.24	.07	5.57	1.64	1.24	1.83	.04	.06	.54	.03	....	1.12	.41	.54	.07	....	....	....	....	....	....	....	....	....	....	....	15.03
Bunker[2]... 4 miles NW	Black	....	....	....	....	....	1.18	.05	3.62	1.40	2.54	.66	.04	.90	.15	....	....	1.71	.07	.52	....	....	....	....	....	....	....	....	....	....	.35	....	13.19
Campbell	St. Francis	....	.08	....	....	....	1.92	.50	.45	1.97	1.10	2.72	.25	.04	.90	.04	....	2.15	.04	.37	....	....	....	....	....	....	....	....	....	....	.47	....	13.00
Cape Girardeau[2]	Mississippi	....	.02	....	....	....	.73	.04	1.65	.41	2.06	.97	....	.02	.10	T.	....	2.71	.14	.05	.01	....	....	....	....	....	.16	....	....	....	.04	....	9.11
Caruthersville[2]	do	....	T.	.11	....	....	1.45	.26	1.56	2.02	.73	.50	.20	....	.22	.39	....	1.40	.13	....	.10	....	....	....	....	....	.14	....	....	....	....	....	9.21
Centerville(1)[2]	Black	....	.09	....	....	....	.91	2.24	3.47	1.90	1.47	.79	.02	.66	.05	.33	....	1.40	.08	.95	....	.24	....	....	....	....	....	....	....	....	.05	....	14.65
Centerville(2)[2]	do	....	.22	....	....	....	.92	.03	4.65	2.21	1.17	.82	....	.55	.08	.31	....	1.91	.03	.70	....	.03	....	....	....	....	....	....	....	....	.05	....	13.68
Cook Station[2]	Meramec	....	....	....	....	....	1.75	1.80	4.00	2.12	....	.81	....	1.12	....	....	....	.60	.62	.30	....	....	....	....	....	....	....	....	....	....	....	....	13.12
Crane Mountain[2]	St. Francis	....	.21	....	....	....	1.15	1.50	3.30	1.39	1.36	.66	....	.31	.36	.20	.02	1.37	.02	.66	....	.01	....	....	....	....	....	....	....	....	....	....	12.52
Crystal City	Mississippi	....	.02	....	....	.14	.10	1.33	.17	.59	T.	.18	*T.*	.14	.03	....	....	.74	*	.05	....	.11	....	....	....	.88	*T.*	....	....	.34	.12	....	4.94
Cuba	Meramec	....	.12	....	....	.41	.14	2.55	3.87	1.07	....	.19	.45	....	....	....	.07	1.18	.48	.11	....	.40	....	....	....	....	....	....	....	.31	.06	....	11.41
Deering[2]	St. Francis	....	.27	T.	....	....	1.20	....	.78	1.60	1.05	1.75	.33	....	.23	.35	T.	2.35	.13	....	....	....	....	....	....	....	.09	....	....	....	....	....	10.13
De Soto[2]	Mississippi	....	.22	....	....	....	.11	.45	1.08	.30	.33	.20	....	.32	.05	.01	....	.55	.25	.30	....	.01	T.	....	....	....	.04	....	....	....	.36	....	4.58
Dexter[2]	St. Francis	....	.57	....	....	....	1.57	.43	3.02	.89	1.50	1.41	.08	.19	.61	.02	....	1.02	.29	.26	.24	....	....	....	....	....	.06	....	....	....	.09	....	12.25
Doniphan(1)	Black	....	1.10	....	....	.39	.45	1.10	.22	1.25	2.96	1.50	.63	.03	.36	....	....	1.75	....	.73	....	....	....	....	....	....	....	....	....	....	.94	....	13.41
Doniphan(2)[2]	do	....	.92	....	....	....	.70	.07	1.25	1.20	1.52	1.65	.05	.66	1.00	.02	....	1.60	.22	.60	.04	....	....	....	....	....	....	....	....	....	.61	....	12.11
East End[2]	Meramec	....	....	....	....	....	1.03	1.25	3.25	1.55	1.18	.50	....	....	.36	....	.03	73	....	.87	....	....	....	....	....	....	....	....	....	....	....	....	10.75
Eastwood Lookout[2]	Black	....	....	....	....	....	1.00	.50	.30	....	1.90	1.75	.04	.20	.65	.13	....	2.34	.04	.78	....	....	....	....	....	....	....	....	....	....	.50	....	10.13
Ellington[2]	do	....	.90	....	....	....	1.40	.02	3.55	1.69	2.11	1.10	....	.13	.48	.10	....	1.40	....	1.04	....	....	.04	....	....	....	....	....	....	....	.20	....	14.16
Ellsinore Lookout[2]‡	do	....	.14	....	....	....	.90	1.40	2.20	.80	.60	1.20	.30	....	.50	....	....	.72	....	.60	....	....	....	....	....	....	....	....	....	....	.20	....	9.56
Farmington[2]	St. Francis	....	.02	.02	....	....	.75	.02	3.43	.72	.54	.78	....	.55	.07	.15	....	1.18	.11	.27	....	.13	....	....	....	....	.17	....	....	....	T.	....	8.91
Fisk[2]	do	....	.48	....	....	....	1.83	.05	1.88	2.14	1.32	1.27	....	.07	.81	....	....	1.28	.08	.30	.07	....	....	....	....	....	....	....	....	....	.05	....	11.63
Fredericktown[2]	do	....	.20	....	....	....	.64	T.	4.58	2.12	1.81	.66	....	.03	.12	.09	....	1.60	....	.31	....	....	....	....	....	....	....	....	....	....	....	....	12.16
Gerald[2]	Meramec	....	.06	....	....	....	.18	1.90	.64	.10	.35	.12	....	1.10	....	....	T.	.92	.15	....	....	T	....	....	....	....	....	....	....	....	*	....	5.52
Greenville(1)	St. Francis	....	.03	....	....	.27	1.07	1.56	3.40	1.72	.81	1.07	.41	....	.41	....	....	3.63	....	.90	....	....	....	....	....	....	....	....	....	.26	....	....	15.57
Greenville[2](2)	do	....	.05	....	....	....	1.88	.06	4.24	1.74	1.41	1.03	....	.48	.48	....	....	4.26	....	.84	....	....	....	....	....	....	....	....	....	....	.63	....	17.10
High Lookout[2]	Black	....	.01	....	....	....	.90	....	.65	.50	2.22	1.46	.02	.27	.14	.01	T.	2.20	.03	.75	....	....	....	....	....	.04	....	....	....	....	.40	....	9.60
Jackson	Mississippi	....	.04	....	....	.25	.47	.69	.71	.50	.83	.88	.35	.11	.60	....	....	1.90	....	.30	....	....	....	....	....	....	....	....	....	.49	.16	....	8.28
Jefferson Barracks[2]	Mississippi	....	T.	....	....	....	.21	.68	.73	T.	.39	.09	....	.37	T.	.01	.01	.49	.49	.50	....	.14	....	....	....	....	.17	T.	....	....	.95	....	5.23
Jerome[2]	Gasconade	....	.22	....	....	....	.92	1.38	2.22	4.00	....	2.08	....	.30	....	....	....	.90	.15	.30	....	.11	....	....	....	....	....	....	....	.18	....	....	12.76
Koshkonong[2]	Black	....	.10	....	....	....	.95	....	.81	2.00	1.45	2.34	.08	.15	.58	.03	T.	1.88	.12	.47	....	....	T.	....	....	.33	....	....	....	....	2.18	....	13.47
Leeper[2]	do	....	....	....	....	....	1.54	.04	2.58	1.69	1.33	1.32	....	.07	.34	.02	....	2.70	.02	1.14	....	....	....	....	....	....	....	....	....	....	.60	....	13.39
Licking(1)... 4 miles N	Gasconade	....	.22	....	....	.33	.42	1.07	.34	.50	.10	.45	.62	....	....	....	....	1.71	....	.47	....	....	....	....	....	....	....	....	....	....	....	....	6.23
Licking(2)[2]	do	....	.05	....	....	....	.73	....	.49	.32	.62	.55	....	.58	....	.02	....	1.40	.36	.37	....	....	....	....	....	....	....	....	....	....	.02	....	5.51
Macedonia Lookout[2]	Black	....	.10	....	....	....	1.43	....	.94	T.	1.50	....	1.75	1.50	.48	....	....	1.92	....	....	.80	....	....	....	....	....	....	....	....	....	1.50	....	11.92
Malden[3]...4 miles NNW	Mississippi	T.	.07	....	....	.23	2.73	.65	1.62	1.61	.39	2.60	T.	.61	.06	T.	1.32	1.11	.01	.18	....	T.	....	....	....	.26	....	....	....	T.	.53	....	13.98
Marble Hill	do	....	.90	....	....	.31	.33	1.17	1.87	1.58	.87	.71	1.20	....	.72	....	....	2.60	.13	.89	....	....	....	....	....	....	....	....	....	1.34	....	....	14.62
Meramec Park[2]	Meramec	....	.09	....	....	....	.25	.83	1.21	.21	.45	.18	....	.49	T.	....	....	.80	.43	.04	....	.53	T.	....	....	....	....	....	....	....	.28	....	5.79
Morehouse	Mississippi	....	.47	....	....	....	1.03	.67	5.73	1.99	.99	1.50	....	.10	.25	....	....	2.64	....	.08	....	....	....	....	....	....	T.	....	....	T.	....	....	15.45
Moselle[2]	Meramec	....	.08	T.	....	.29	....	1.01	.99	....	....	.10	....	.50	T.	....	....	....	....	.32	....	....	.64	.28	....	....	....	....	....	....	.38	....	4.59
New Madrid[2]	Mississippi	....	T.	....	....	....	1.05	T.	3.30	1.85	1.05	2.63	.75	....	.11	.10	....	1.55	.12	T.	....	....	....	....	....	....	T.	....	....	....	....	....	12.51
Oates Tower[2]	Black	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Owensville[2]	Gasconade	....	.06	....	....	....	.15	3.35	.60	.32	.92	.30	....	.57	....	....	*	.90	.30	.06	....	*.19*	....	....	....	....	....	....	....	....	1.38	....	9.10
Pacific[2]	Meramec	....	*.08*	....	....	....	*.25*	1.33	.22	.05	....	....	....	.90	....	.58	*.01*	*	.95	.55	....	.10	*T.*	....	....	....	....	....	....	....	.85	....	§5.87
Parma[2]	St. Francis	....	....	....	....	....	2.40	.29	1.60	3.02	1.21	2.60	.14	.81	.26	.18	....	2.30	T	....	.21	....	....	....	....	....	....	....	....	....	.10	....	15.12
Perryville	Mississippi	.23	....	....	....	.14	.25	.47	1.07	.53	....	2.10	.40	1.10	....	.18	....	1.64	T.	T.	T.	....	....	....	....	....	....	....	....	.21	1.49	....	9.81
Pilot Knob[2]...2 mi. NE	St. Francis	....	....	....	....	....	.65	2.85	3.00	....	2.10	.52	.01	.50	....	.40	.30	.48	.15	.95	....	....	.02	....	....	....	....	....	....	....	....	....	11.93
Poplar Bluff[2] ....(A)	Black	....	.63	....	....	....	1.35	....	1.14	1.70	1.81	2.10	....	1.07	....	....	1.53	.12	.52	....	....	....	....	....	....	....	....	....	....	.59	....	....	12.56
Poplar Bluff[2] ....(B)	do	....	.61	....	....	....	1.62	.05	1.13	2.00	1.81	2.10	T.	....	1.07	T.	....	1.53	.12	.44	.08	....	....	....	....	....	....	....	....	....	.70	....	13.26
Puxico[2]	St. Francis	....	.11	....	....	....	1.50	.04	4.86	1.05	1.32	1.64	T.	....	.64	.02	....	1.75	.19	.47	....	....	....	....	....	....	....	....	....	....	.02	....	13.61
Qulin[2]	do	....	.43	....	....	....	1.12	.03	.89	2.00	1.48	2.00	.10	.13	.48	.03	....	2.00	.21	.09	.29	....	1.38	....	....	....	....	....	....	....	.35	....	13.01
Reynolds[2]	Black	....	.20	....	....	....	.84	1.08	3.04	1.74	1.31	.74	....	.82	.16	.09	....	1.43	.05	.56	....	.10	....	....	....	....	....	....	....	....	.23	....	12.39
Richwoods[2]	Meramec	....	.08	T.	....	....	.29	1.70	.46	*	*	.69	....	.46	.12	....	....	*	1.09	.09	....	.08	....	....	....	....	....	....	....	....	.46	....	5.52

Continued on next page

Daily Precipitation for June 1945—Continued from preceding page

Stations	Drainage-basins	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	..	Total
Southeastern Division – Concluded																																	
Rolla[2]	Meramec	....	.35	....	....	T.	.95	2.60	2.85	2.50	.35	.23	....	.43	.07	T.	T.	.85	.20	.12	....	.08	....	....	....	....	....	....	....	.47	T.	....	12.05
Round Spring[2]	Black	....	....	....	....	....	.85	....	1.91	.24	.55	.76	....	.33	.05	.04	....	1.69	.06	.69	....	....	....	....	....	....	....	....	....	....	.84	....	8.01
St. Louis:																																	
City Office[1], [5]	Mississippi	.02	....	....	....	.17	.01	1.66	.06	.34	....	.05	.60	.02	T.	T.	1.23	.80	.39	....	.03	T.	....	....	....	.24	T.	.80	....	.69	.31	....	7.42
Airport[3], [5]	Missouri	.23	T.	....	....	.11	.01	1.66	.06	.39	....	.05	.83	T.	.04	T.	1.46	.48	1.64	....	.02	.08	....	....	....	.14	T.	.11	....	.15	.41	....	7.87
St. Louis Univ.[1], [5]	Mississippi	.01	....	....	....	.34	.04	1.38	.06	.31	....	.06	.78	....	.01	T.	.91	.93	.57	....	.03	....	....	....	....	.06	....	.85	....	.58	.36	....	7.28
Washington Univ.[2]	do	....	.09	....	....	....	.23	1.60	.27	....	.33	.06	....	.85	.12	.03	.64	1.15	.63	.87	....	.01	....	....	....	.01	.35	.51	....	....	.42	....	8.17
Salem[2]	Meramec	....	.16	....	....	....	.90	.75	2.00	1.36	1.13	.39	....	1.69	.02	....	.18	.95	.35	.74	....	.18	....	....	....	....	....	....	....	....	T.	....	10.80
Sikeston[2]	Mississippi	....	.30	....	....	....	.72	.06	6.98	1.81	.83	1.53	.05	.05	.28	.04	T.	1.74	.74	.03	T.	T.	....	....	....	....	.50	T.	....	....	.67	....	16.33
Steelville[2] 2½ mi. NE	Meramec	.06	....	....	....	....	1.14	2.39	1.90	2.50	....	....	.25	.33	....	....	....	.73	.28	.80	....	.06	....	....	.04	....	....	....	....	....	.30	....	10.78
Summersville[2]	Black	....	.88	....	....	....	.59	....	.82	.23	1.33	.89	....	.41	.08	....	....	3.01	.14	.23	....	....	T.	....	....	.02	....	....	....	....	.82	....	9.45
Union 1½ mi. SE	Meramec	....	.03	....	....	*	.20	1.72	.25	.27	....	.11	.39	....	.03	.04	....	.94	.31	....	....	.16	....	....	....	....	....	....	....	.74	1.40	....	6.59
Valley Park[2]	do	....	.13	....	....	....	.26	1.00	.77	T.	....	T.	....	.70	....	....	T.	1.38	.55	.03	....	.18	....	....	....	....	.15	.17	....	....	.96	....	6.28
Van Buren[2]	Black	....	....	....	....	....	1.39	....	.75	.98	1.54	1.33	.05	.26	.30	.06	....	2.27	....	.76	....	....	....	....	....	....	....	....	....	....	....	....	9.69
Vichy[3] 2 miles NW	Meramec	.26	....	....	T.	.35	.07	3.02	2.35	.70	T.	.20	.33	....	....	T.	1.03	.44	.63	....	T.	.40	....	....	....	T.	T.	T.	....	.03	.84	....	10.65
Wappapello Dam[2]	St. Francis	....	.06	....	....	....	2.42	T.	3.50	1.10	1.42	1.82	....	....	.53	.01	....	1.51	.10	.64	....	....	....	....	....	....	....	....	....	....	.09	....	13.20
Webster Groves	Mississippi	....	.05	....	....	.25	T.	1.47	.09	.53	....	.08	.66	.08	.08	T.	.72	1.25	.52	....	....	.19	....	....	....	.03	....	.51	....	.65	.09	....	7.25
Weingarten	do	....	.15	....	....	.20	.16	.40	1.25	.65	.32	....	....	1.02	.60	....	.12	.82	.15	.31	....	....	....	....	....	....	....	....	....	....	2.00	....	8.15
West Plains[3]	Black	.03	.09	....	....	.76	.53	.87	1.86	1.12	1.12	.88	.39	.09	T.	T.	1.22	.83	.38	....	....	.02	....	....	.08	....	T.	....	....	2.08	.06	....	12.41
Williamsville[2]	do	....	....	....	....	....	2.02	.13	2.44	1.75	1.58	1.20	T.	1.39	.75	....	....	2.36	.04	.73	....	....	....	....	....	....	....	....	....	....	.62	....	15.01
Willow Springs[2] 500 ft E	White	....	....	....	....	....	.81	....	.86	.24	.81	1.25	....	.74	....	.22	....	1.81	....	.42	....	T.	....	....	....	....	....	....	....	....	.40	....	7.56
Winona Ranger Sta.[2]	Black	....	....	....	....	....	1.29	T.	.78	.41	2.63	1.42	....	.08	.18	.05	....	2.16	.57	....	....	....	....	....	....	....	....	....	....	....	.07	....	9.64
Zalma[2]	Mississippi	....	.13	....	....	....	.73	T.	4.20	1.43	1.79	1.20	....	.08	.56	....	....	2.82	.03	.43	....	....	....	....	....	....	....	....	....	....	.32	....	13.72
Cairo, Ill.[1], [5]	do	....	.05	....	....	.15	.24	.72	1.69	.74	.29	1.97	.45	T.	.01	.02	.89	1.20	T.	T.	....	T.	....	....	....	.37	....	....	....	.99	.39	....	10.17
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
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Except as otherwise indicated, amounts are for 24 hours ending late in afternoon. [1] Midnight to midnight. [2] Measured in the morning; for the preceding 24 hours. [3] Data for 24 hours ending 12:30 A. M. (C. S. T.) of following day. [5] Recording gage. T. Trace or 0.005 inch or less. * Included in next measurement. // Windshield on gage. Italics data interpolated. § Partly interpolated. (A) Record from cooperative station gage. (B) Record from river station gage. ‡ Received too late to be included in means and extremes.

Daily Evaporation (inches), Mean Temperature (F°), and Wind Movement (miles) for June 1945

(See precipitation data in daily precipitation table)

Station	Data	Day of month																														Monthly
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	..	
Columbia (Univ. of Mo. Hort. Exp. Sta. 9 mi. WNW.)	Evaporation	.279	.167	.152	.118	.080	.022	....	.096	.083	.148	.162	.120	.181	.147	.051	.048	.040	.143	.170	.110	.189	.221	.228	.162	.147	.173	.257	.244	.157	.233	....	4.477
	Mean temperature	76	67	53	48	52	58	66	68	70	70	70	67	72	71	70	68	64	65	64	68	68	73	75	76	72	68	77	82	78	74	..	68.2
	Wind movement	177	103	81	27	43	83	105	36	61	75	16	20	45	62	29	36	9	22	13	24	20	31	23	14	33	31	113	116	38	56	..	1,542
Lakeside (Osage Dam)	Evaporation	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.....
	Mean temperature	75	60	58	54	51	62	67	67	70	72	72	68	72	70	74	73	64	64	66	70	72	72	74	74	72	68	76	81	76	80	..	69.2
	Wind movement	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
St. Louis (Washington University)	Evaporation	.237	.108	.173	.083	.126	.074	.160	.074	.030	.097	.127	.173	.060	.177	.119	.156	.226	.044	.199	177	.090	.134	.210	.205	.165	.217	.179	.176	.230	.198	....	4.424
	Mean temperature	76	64	52	56	58	60	66	66	71	72	74	72	76	74	74	76	64	65	68	68	72	74	75	76	77	70	79	82	82	78	..	70.5
	Wind movement	42	43	49	40	34	34	60	44	31	41	28	22	17	37	35	35	31	20	28	8	19	13	17	12	13	46	19	43	48	17	..	926

Observations taken at 8:00 a. m. except at 7:30 a. m. at Lakeside. For Lakeside and St. Louis (Washington University) descriptions see April 1932 and August 1938 reports, respectively. * Included in next measurement.

(Continued from page 43)

and wires, disrupting power and communication services, and damaging a few buildings. Much fruit was blown off trees. The storm came from the southwest over a path about 25 miles long and about five miles wide. Gusts up to 80 m. p. h., were reported by the Airport Station at Lambert Field, St. Louis County, while the maximum velocity for a five minute period at the St. Louis City Weather Bureau Office was 40 m. p. h., beginning at 10:45 p. m. (C. W. T.). No estimate of the resultant damage was available, but it would probably amount to several thousand dollars in St. Louis and in St. Louis County. The damage at St. Charles was confined to trees.

On the 7th a minor windstorm struck near Browning, shortly after midnight (C. W. T.), with damage confined mostly to trees. The wind was from the west or west-northwest. The same day trees were also damaged at Crystal City by a minor local windstorm.

On the 9th a local and minor windstorm occurred at Birch Tree, at 8:15 p. m. (C. W. T.). This storm came from the northwest, with path one-half mile wide and one mile long. The only damage was to trees.

On the 10th trees were damaged by a local windstorms at Morehouse.

During the afternoon of the 15th, between 2:30 p. m. and 3:00 p. m. (C. W. T.), extremely high winds swept across the northeastern portion of the State from south-central Sullivan County generally northeastward to the Mississippi River. The windstorm was first reported about 4½ miles east of Browning, where many barns were badly damaged, or destroyed, and innumerable outbuildings were destroyed, and much poultry was killed, when brooder houses were overturned. Some livestock was crippled and farm implements damaged by falling barns and sheds. Monetary damage estimate not available. From near Browning the storm continued its northeasterly movement, increasing in intensity, until it struck near the southwestern city limits of Kirksville at 3:00 p. m. (C. W. T.) as a small tornado. The tornado moved into the city limits of Kirksville and cut a path of greatest destruction about 100 yards wide and about one mile long in the extreme southern section of the city. The wind velocity was reported as 80 m. p. h., and five persons were injured, three houses destroyed, 50 homes damaged by loss of roofs and windows, and many small chickens were killed or drowned. Loss to crops was only slight. The amount of damage at Kirksville was not reported. Some damage occurred to the north of the main storm path, one building 18 blocks away having the roof blown off. After striking Kirksville the tornado apparently lifted and did not strike the ground again, but

(Continued on page 48)

Daily Temperatures for June 1945

Stations		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	..	Mean
Northern Division																																	
Brunswick /	Maximum	84	64	66	60	56	64	79	68	79	78	72	74	82	81	72	67	73	70	78	75	80	84	88	78	78	79	90	90	83	80	..	75.7
	Minimum	68	55	48	42	42	48	50	58	62	63	60	58	59	64	65	63	58	57	54	54	58	57	64	67	67	61	62	65	69	63	..	58.7
Chillicothe /	Maximum	85	58	60	59	55	61	78	69	80	78	68	77	84	84	75	66	81	72	79	77	82	86	87	84	81	79	92	92	86	82	..	76.6
	Minimum	58	55	45	40	41	47	49	57	60	59	56	48	55	64	63	63	55	55	53	53	55	62	65	66	62	57	62	65	67	65	..	56.7
Columbia	Maximum	82	65	59	61	57	67	79	70	80	81	80	75	84	78	80	75	70	76	79	76	80	85	87	87	80	78	91	92	83	85	..	77.4
	Minimum	65	54	45	43	50	50	59	63	65	65	65	63	65	66	65	60	57	55	53	62	60	64	67	68	62	59	66	72	70	65	..	60.8
Fayette	Maximum	82	70	60	61	56	63	77	75	78	79	77	75	82	79	75	72	72	75	77	77	80	83	85	83	79	77	89	90	87	81	..	76.5
	Minimum	70	53	47	38	48	48	59	60	63	61	60	59	61	64	61	59	56	59	52	59	55	56	63	67	64	65	64	72	67	64	..	59.1
Grant City	Maximum	80	77	56	58	55	58	72	68	78	75	68	76	83	81	79	70	77	73	77	75	78	81	86	83	81	76	89	87	83	80	..	75.3
	Minimum	66	49	39	39	48	45	54	58	59	56	50	49	56	61	58	54	53	54	53	58	55	60	64	66	59	60	61	66	60	63	..	55.8
Hannibal	Maximum	82	66	52	64	57	65	74	70	73	78	73	73	83	76	77	71	67	74	78	73	80	83	87	86	78	78	90	91	83	81	..	75.4
	Minimum	61	50	46	46	48	48	55	58	62	64	60	59	62	67	62	60	58	54	55	61	57	61	65	67	65	60	65	74	68	63	..	59.4
Kansas City Airport.	Maximum	83	63	64	59	56	68	76	67	81	75	72	77	84	83	79	69	80	67	79	80	81	86	87	84	79	82	92	90	84	83	..	77.0
	Minimum	63	54	47	44	51	50	60	62	63	60	59	57	66	68	64	57	57	58	53	65	62	64	70	69	66	63	66	73	70	64	..	60.8
Kirksville	Maximum	86	81	55	63	60	59	71	72	78	74	73	74	81	80	77	70	74	73	77	75	79	82	85	83	78	74	87	88	88	82	..	76.0
	Minimum	68	52	45	45	48	46	54	57	60	61	55	54	60	64	50	58	55	54	51	60	54	61	65	66	66	58	66	65	65	64	..	57.6
Lawson	Maximum	81	70	63	62	52	63	76	69	79	76	72	78	83	83	73	70	77	70	78	79	78	85	88	82	79	80	90	90	85	83	..	76.5
	Minimum	67	53	45	37	47	47	59	59	62	57	55	53	61	62	61	56	51	54	49	62	55	61	64	68	60	59	63	73	66	62	..	57.6
Louisiana /	Maximum	84	60	53	62	56	65	75	70	77	73	75	75	82	78	78	68	78	75	80	74	79	83	89	85	80	78	90	92	84	82	..	76.0
	Minimum	55	59	49	47	49	49	53	56	60	*62*	64	62	62	65	62	58	56	53	55	59	54	57	62	65	62	54	60	69	70	65	..	58.4
Macon /	Maximum	82	60	59	64	55	62	79	70	77	78	74	74	82	78	75	74	74	77	77	74	80	83	86	82	80	78	89	90	83	80	..	75.9
	Minimum	67	53	46	44	46	47	51	57	60	61	57	56	57	64	61	63	64	56	51	55	54	57	65	67	67	58	60	65	66	64	..	58.0
Maryville	Maximum	79	74	58	56	53	56	71	71	79	75	70	73	82	80	75	69	77	75	78	74	77	82	87	82	80	76	88	86	86	80	..	75.8
	Minimum	65	48	38	39	46	44	53	56	59	54	51	48	55	59	58	53	50	55	48	58	53	57	62	67	57	62	67	74	64	63	..	55.4
Mexico /	Maximum	82	60	55	60	55	64	79	66	78	77	77	74	84	76	79	74	66	76	77	73	80	84	87	87	80	78	90	91	82	85	..	75.9
	Minimum	68	54	46	40	46	48	50	58	60	63	62	60	62	65	63	64	59	55	54	57	56	61	63	66	66	55	64	62	68	64	..	58.6
Moberly /	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
Oregon	Maximum	83	73	64	59	57	58	75	70	80	79	74	78	84	84	75	71	80	78	78	79	82	85	88	85	82	81	90	85	87	80	..	77.5
	Minimum	68	51	41	42	48	45	55	58	59	54	54	51	60	62	63	54	52	56	52	59	56	60	66	69	58	63	65	75	64	61	..	57.4
St. Charles /	Maximum	79	65	54	65	62	65	78	70	81	81	80	73	84	80	83	89	63	76	80	77	81	87	90	87	82	80	91	91	91	86	..	78.4
	Minimum	70	61	49	48	49	52	53	59	63	62	65	66	65	67	65	65	62	57	56	59	59	61	61	64	69	58	58	69	74	67	..	61.1
St. Joseph	Maximum	81	58	64	57	55	61	74	68	79	72	73	75	83	81	75	70	79	69	78	78	81	85	88	84	82	82	91	87	84	79	..	75.8
	Minimum	58	49	45	43	47	47	57	61	63	58	56	54	61	65	63	56	54	57	53	63	57	63	69	70	63	66	66	71	63	63	..	58.7
Trenton	Maximum	83	74	58	61	58	61	76	71	80	79	71	74	83	80	77	70	81	80	81	79	81	84	87	84	80	78	86	91	88	81	..	77.2
	Minimum	70	55	43	42	48	*46*	46	59	60	58	54	53	58	60	60	54	55	57	49	61	54	61	65	65	61	59	60	65	65	65	..	56.9
Unionville /	Maximum	87	60	55	68	64	62	75	79	80	79	65	78	82	82	79	70	78	75	75	75	80	84	88	81	83	75	88	90	85	79	..	76.7
	Minimum	63	50	42	40	42	45	45	53	56	55	53	50	55	60	60	60	51	54	50	50	53	55	62	65	63	58	60	66	65	65	..	54.9
Warrenton	Maximum	85	79	62	62	58	65	81	78	79	81	80	77	83	81	83	83	66	80	80	78	79	85	86	86	84	80	91	92	89	86	..	79.3
	Minimum	71	56	47	45	49	49	55	60	59	65	63	62	61	67	63	64	58	49	53	56	60	57	60	72	64	50	65	72	69	64	..	59.5
Keokuk, Iowa	Maximum	82	66	49	62	56	60	62	73	76	75	68	74	82	78	80	70	71	74	78	71	80	84	88	86	79	76	90	91	86	80	..	74.9
	Minimum	66	49	45	47	50	51	53	58	63	64	58	59	65	69	66	61	57	56	54	60	57	62	72	68	68	61	72	74	69	68	..	60.7
Southwestern Division																																	
Clinton	Maximum	85	68	67	60	59	72	82	77	82	81	76	76	85	81	82	83	76	74	80	81	85	87	88	81	84	82	92	91	84	84	..	79.5
	Minimum	66	54	49	43	52	53	60	64	62	62	62	61	62	64	64	58	57	52	50	63	62	60	63	65	64	60	64	67	67	65	..	59.8
Eldon	Maximum	81	77	65	61	58	73	79	78	80	80	80	72	83	76	85	79	69	77	79	83	80	87	88	88	81	79	92	92	87	87	..	79.2
	Minimum	68	57	49	43	48	53	60	62	63	63	62	64	63	63	62	62	58	54	53	57	60	60	64	65	64	57	65	72	69	67	..	60.2
Harrisonville /	Maximum	83	64	65	59	56	70	79	71	80	78	75	76	81	83	81	63	77	72	79	76	82	84	85	82	83	78	91	91	81	85	..	77.0
	Minimum	66	50	44	40	42	50	51	59	61	59	59	55	60	62	64	59	54	51	49	60	60	59	65	66	64	61	62	69	64	64	..	57.7
Jefferson City /	Maximum	81	63	62	63	58	71	78	73	80	80	81	74	82	78	84	80	79	77	78	78	80	85	..	..	..	..	90	91	84	87	..	[d]77.6
	Minimum	69	58	50	45	47	52	52	59	63	65	63	64	64	64	62	65	59	53	56	53	62	62	64	..	..	..	..	70	71	69	..	[d]60.1
Joplin	Maximum	84	70	63	71	64	86	87	85	83	75	72	76	80	78	87	89	72	76	78	82	78	86	86	81	84	86	91	89	83	90	..	80.4
	Minimum	69	59	55	51	58	61	77	75	69	66	64	66	66	67	72	61	60	57	57	67	68	66	72	71	70	69	78	81	68	68	..	66.3
Lamar /	Maximum	83	70	62	68	64	85	83	82	82	76	75	75	81	78	85	70	72	75	78	82	78	85	84	81	83	83	90	90	80	89	..	79.0
	Minimum	67	59	50	48	48	52	58	67	63	63	61	62	62	62	64	66	57	53	51	51	63	60	61	67	64	64	64	72	64	64	..	60.2
Lebanon /	Maximum	81	64	60	69	64	75	79	82	79	77	79	74	81	77	85	81	67	75	76	81	81	86	87	85	81	79	89	90	84	89	..	78.6
	Minimum	67	59	48	42	44	50	53	60	63	63	60	60	61	63	63	67	59	51	48	51	57	59	62	63	63	55	55	66	67	66	..	58.2
Lexington /	Maximum	85	68	68	62	58	65	78	78	80	79	74	77	84	82	74	65	78	73	79	80	82	86	90	86	83	82	92	92	86	92	..	78.6
	Minimum	70	56	48	48	49	50	52	60	64	65	60	60	63	64	65	65	57	58	55	56	62	63	72	74	67	64	65	68	67	66	..	61.1
Marshall	Maximum	84	83	63	66	58	63	77	75	80	..	76	73	83	82	76	75	81	78	76	76	79	85	89	..	77	79	91	91	91	83	..	[b]78.2
	Minimum	72	54	47	39	49	48	60	61	63	..	59	59	63	64	63	59	56	56	52	62	58	62	63	..	66	61	65	76	67	64	..	[b]59.6
Mountain Grove	Maximum	80	76	65	67	66	72	75	80	77	74	74	70	81	75	84	84	80	74	75	80	80	83	83	84	81	82	88	87	86	88	..	78.4
	Minimum	65	59	48	42	49	50	59	66	61	58	59	62	60	63	63	68	58	48	49	56	65	62	64	60	65	58	66	70	69	68	..	59.7
Neosho	Maximum	84	84	70	73	72	87	88	86	86	80	75	76	82	80	88	86	76	80	80	83	82	87	88	86	90	85	92	92	89	90	..	83.2
	Minimum	63	61	50	48	57	55	72	65	63	63	61	63	61	63	67	66	58	48	48	59	63	60	66	65	61	61	72	77	68	65	..	61.6
Nevada	Maximum	85	85	64	69	67	83	85	83	83	83	75	76	84	83	85	81	76	75	81	84	82	86	87	83	85	86	92	91	87	90	..	81.9
	Minimum	72	55	50	47	55	55	63	67	63	63	62	63	62	63	67	58	56	53	50	63	64	59	65	66	65	63	63	77	65	66	..	61.3
Sedalia	Maximum	83	82	63	60	58	68	77	77	80	81	77	76	84	85	83	77	73	75	77	76	81	85	87	86	78	78	92	92	89	85	..	78.8
	Minimum	70	54	47	41	50	51	61	61	62	62	62	60	62	62	62	59	56	55	50	62	60	61	65	69	65	59	63	75	67	66	..	60.0
Springfield ..½ mile E	Maximum	81	65	63	67	61	78	76	81	76	75	76	74	80	73	85	80	68	75	78	80	76	83	84	81	81	79	89	90	83	89	..	77.6
	Minimum	64	50	49	45	50	54	64	68	64	62	60	62	62	64	65	60	53	49	50	58	63	60	65	64	62	59	68	71	67	64	..	59.9
Warrensburg	Maximum	84	84	64	63	60	69	77	78	77	79	74	74	82	83	79	74	74	75	78	78	83	84	87	82	80	79	91	91	88	84	..	78.5
	Minimum	71	54	48	45	49	50	60	61	62	60	60	58	63	65	64	57	56	56	52	62	61	61	66	71	66	61	63	74	66	64	..	60.2
Southeastern Division																																	
Arcadia /	Maximum	85	75	62	65	69	70	80	82	78	80	80	76	80	80	85	90	74	80	78	84	80	84	88	90	87	85	90	90	92	90	..	81.0
	Minimum	68	62	53	48	45	48	52	56	60	60	61	63	65	64	65	68	65	46	48	53	54	58	56	56	57	59	64	67	73	69	..	58.8
Birch Tree .. ½ mile E	Maximum	80	74	..	67	65	70	76	81	78	76	77	73	80	82	..	87	82	79	77	82	77	84	85	87	84	79	89	86	88	88	..	[b]79.8
	Minimum	69	50	..	45	45	51	59	58	62	60	62	64	62	62	..	64	52	45	52	52	60	63	62	59	67	61	65	72	67	67	..	[b]59.2
Caruthersville /	Maximum	85	84	70	66	73	76	78	84	85	76	78	85	85	74	86	88	78	77	76	82	84	86	88	88	88	83	92	90	93	92	..	82.3
	Minimum	68	64	54	51	51	52	57	62	63	65	65	66	66	67	66	68	64	57	58	62	62	64	66	67	70	68	68	71	77	74	..	63.8
Crystal City	Maximum	89	81	67	65	65	70	81	81	80	80	83	81	85	83	86	91	86	80	80	82	82	85	88	88	87	84	92	92	92	91	..	82.6
	Minimum	71	60	50	47	48	52	55	60	64	64	63	65	65	65	63	68	55	49	55	55	62	58	58	60	66	60	66	73	71	67	..	60.5
Doniphan	Maximum	84	82	73	68	70	76	78	88	86	79	82	83	88	80	88	93	83	81	79	86	85	88	87	90	89	85	95	91	94	93	..	84.1
	Minimum	67	61	48	45	46	54	61	66	63	63	65	64	63	64	66	72	64	50	57	52	57	62	60	59	69	62	64	64	71	68	..	60.9
Farmington	Maximum	81	75	59	63	65	69	81	80	77	78	82	78	82	79	85	89	78	80	77	82	79	84	86	88	85	82	90	89	91	89	..	80.1
	Minimum	69	58	50	47	45	52	56	63	62	64	63	64	64	65	66	69	56	48	53	55	62	59	57	59	67	63	65	73	73	66	..	60.4
Jackson	Maximum	88	83	70	68	68	70	80	85	79	84	81	83	86	84	86	93	90	81	80	85	84	87	90	91	94	84	94	93	92	92	..	84.2
	Minimum	67	64	54	49	48	54	57	64	64	64	64	65	66	65	68	73	65	50	58	56	64	62	59	61	68	66	66	75	73	72	..	62.7
Poplar Bluff	Maximum	87	82	68	67	72	73	80	86	85	78	82	85	*86*	88	90	*90*	80	79	*76*	86	86	87	90	90	83	*85*	92	92	93	89	..	83.6
	Minimum	63	63	52	49	47	55	63	63	64	64	65	64	64	67	*67*	61	53	59	55	61	63	63	62	*64*	64	64	*65*	74	70	63	..	61.7
Rolla /	Maximum	80	64	61	63	59	72	80	78	77	78	81	72	81	76	85	87	66	77	76	82	78	85	87	87	82	79	91	92	86	90	..	78.4
	Minimum	70	58	50	41	47	51	51	59	63	63	63	64	62	64	64	70	61	51	52	59	62	63	64	63	63	59	68	73	68	71	..	60.7
St. Louis	Maximum	80	68	55	65	63	66	78	70	78	77	82	78	84	80	84	84	66	77	78	79	79	85	88	88	80	81	91	91	90	87	..	78.4
	Minimum	66	55	49	48	51	54	56	61	66	66	66	66	67	68	66	64	56	55	59	62	65	68	70	72	66	61	68	75	72	66	..	62.8
Salem	Maximum	82	77	59	66	62	72	79	81	75	77	80	72	83	80	85	87	77	78	76	83	82	86	88	88	82	82	91	91	93	93	..	80.2
	Minimum	67	59	51	42	45	52	59	63	62	62	62	65	62	64	65	71	59	47	52	55	60	61	59	62	62	59	67	72	72	69	..	60.2
Sikeston /	Maximum	88	84	65	69	71	75	80	85	83	76	81	84	87	76	86	90	80	81	80	85	88	86	89	91	91	86	93	93	93	94	..	83.7
	Minimum	69	60	53	49	47	55	56	59	65	65	65	66	68	68	68	70	65	54	59	59	63	65	61	63	69	66	68	74	75	74	..	63.3
Union ......1½ mi. SE	Maximum	89	*79*	61	63	61	69	81	79	79	80	83	78	85	82	85	87	75	80	89	81	78	85	86	88	85	81	91	92	90	89	..	81.0
	Minimum	70	59	49	42	47	52	56	62	64	66	64	65	64	66	61	68	58	49	55	55	62	57	59	60	66	55	66	71	67	66	..	60.0
West Plains	Maximum	83	78	69	71	62	75	78	85	81	76	78	72	84	76	87	90	71	79	78	84	81	85	86	90	86	82	92	90	90	89	..	80.9
	Minimum	64	51	48	48	50	54	61	63	61	61	62	62	62	63	64	64	54	47	55	53	61	63	61	60	66	61	65	69	64	69	..	59.5
Cairo, Ill.	Maximum	86	82	62	66	68	71	82	86	83	78	80	84	88	80	86	90	80	79	79	85	85	86	88	89	89	84	91	93	91	92	..	82.8
	Minimum	74	60	53	52	52	57	58	65	66	67	66	68	70	69	69	70	59	57	62	63	67	68	68	68	72	69	71	77	74	72	..	65.4

/ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs. [a], [b], [c], etc., number of days missing, for example, [b] indicates two days missing. Italics data interpolated. § Partly interpolated.

(Continued from page 46)

continued as a straight-line wind. At about the same time as the Kirksville tornado, (3:00 p. m. C. W. T.), damaging winds occurred over the northern half of Knox County, over a path 12 miles wide and about 25 miles long, with movement here reported as from the west. Cattle barns, houses, and trees were damaged, but the estimated amount of damage was not reported. There was no further damage reported in the State, although high winds were reported to the east of Knox County and newspaper account of this storm reported "it blew itself out near Quincy, Ill."

On the 16th, at 1:15 p. m. (C. W. T.), a local windstorm struck St. Louis and scattered sections of St. Louis County, with some minor damage to trees and wires.

On the 18th, at 3:45 p. m. (C. W. T.), a local windstorm at St. Louis broke plate glass windows in two buildings and tore a section of tin from the roof of another. Damage to one of the windows of Famous-Barr Co., was estimated at $300.

On the 27th, at 4:30 a. m. (C. W. T.), a local windstorm occurred about five miles northwest of Amity, resulting in injury to two persons and damage to the buildings on two farms. Details and amount of damage not reported.

On the 30th, about noon (C. W. T.), a destructive windstorm struck at Clifton Hill and vicinity, resulting in property damage to barns, outbuildings, and roofs, estimated at $50,000, and great crop damage, which was not estimated. The storm came from the west, with path 20 to 30 miles wide and 40 to 50 miles long. On the same day a windstorm struck at Shelbina and to the north of Shelbina, between 12:30 p. m. and 1:15 p. m. (C. W. T.), resulting in damage to property estimated at $100,000. Damage to crops here was small. The storm movement was from the southwest, over a path approximately 12 miles long and of unreported width. This may have been a continuation of the storm that struck Clifton Hill. During the evening of the same day another windstorm, accompanied by heavy hail, struck the northwestern corner of Knox County, damaging houses, barns, and other outbuildings. This storm came from the northwest and covered an area three miles wide and four miles long. Amount of property damage was not reported, but crops were severely damaged by the accompanying hail.

HAILSTORMS

Heavy hail fell in northern Boone County, in the vicinity of Sturgeon and Centralia, on June 1st between 5:00 and 6:00 p. m. (C. W. T.), over a path 9 miles long and 4½ miles wide. The storm came from the west-southwest. Stones ranged in size from small marbles to some as large as hen eggs. Damage to crops was estimated $2,500. Roofs and window glass were considerably damaged, but aggregate amount of property damage not reported.

On the 8th between 5:40 p. m. and 5:48 p. m. (C. W. T.), heavy hail fell at Advance, resulting in considerable damage. Wheat was damaged about 30%. The storm came from the north, and the path was approximately 30 miles long and 17 miles wide. Stones were one-half inch in diameter. Amount of damage not reported.

On the 9th at about 6:00 a. m. (C. W. T.), heavy hail fell at Nevada and in southern Vernon County, resulting in considerable damage to greenhouses, window panes, roofs, and vegetable and flower gardens. Fruit was knocked from trees. The storm came from the west; path was 20 miles long and 20 miles wide. Amount of damage not reported.

On the 29-30th, between 11:30 p. m. and 1:00 a. m. (C. W. T.), heavy hail fell west of Edina, with considerable damage to corn and gardens. Nearly every window light in some homes were broken. The hailstones were reported as of unusual size. Amount of crop or property damage not reported.

ERRATA

March 1945, page 18: Greatest 24-hour precipitation, and date, at Advance should be 2.32 on 18-19th. Number of days precipitation of .01 inch or more at Bethany should be 8. Mean temperature and date of greatest precipitation at Birch Tree should be 54.2" and 30th, respectively. Date of greatest precipitation at Canton should be 20th. Date of minimum temperature at Lamar should be 7†. Days clear and cloudy at Lockwood should be 16 and 5, respectively. Date of maximum temperature at Marshall should be 16†. Page 20: Precipiation on 19th at Bethany should be *. Page 21: Precipitation on 6th and 7th at Jefferson Barracks should be * and 1.57, respectively. Precipitation on 1st at Macedonia Lookout should be *. Precipitation on 25th and 26th at Steelville should be * and 1.96, respectively.

May 1945, page 37: Precipitation on 28th at Waverly should be .52; total should be 3.52.

WBO, St. Louis. 8-23-45—1000.

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U. S. DEPARTMENT OF COMMERCE, WEATHER BUREAU

CLIMATOLOGICAL DATA

MISSOURI SECTION

H. F. WAHLGREN
ST. LOUIS, MO.

VOL. XLVIV JULY 1945 No. 7

PRICE: 5 CENTS A COPY; 25 CENTS A YEAR

GENERAL SUMMARY

The month of July was both drier and cooler than normal in each of the three divisions of the State, and for the State, as a whole. It was the first month since January with a deficient precipitation average and the third consecutive month with average temperature below normal; also, it was the most favorable month for agricultural activities, including crop growth and development, of the 1945 growing season to date.

As a rule, the first three weeks of July were relatively cool, while the last week, or ten days, were generally warmer than normal. Highest maxima occurred generally on the 23d or 24th, when afternoon readings ranged from the high 90's to slightly above 100°, at most stations. Some heat prostration cases were reported. The lowest minimum temperatures ranged from the middle 40's to the middle 50's, at most stations, on various dates during the first half of the month. There were no unusual extremes of temperature reported anywhere in the State. Nights, as a rule, were cool and pleasant and only from the 22d to 25th, inclusive, were they uncomfortably warm. Average temperatures for each of the three divisions of the State, with departures, were as follows: Northern, 74.3°, −2.5°; Southwestern, 75.2°, −2.6°; Southeastern, 75.9°, −2.2°; for the State, 75.1°, −2.9°.

Precipitation which had occurred in unprecedented amounts, and with monotonous frequency, during the preceding five months, ended rather abruptly about the middle of July, and by about the third week rain was needed rather generally over most of the State. However, most sections of the State received beneficial showers during the last week, relieving a dry condition that was rapidly becoming serious in some sections, particularly in the northeastern quarter of the State, where the dry conditions continued at the close of the month. Distribution of the month's precipitation was very irregular, ranging from 8.72 inches in the extreme southwestern corner of the State to only 0.15 inch in the extreme northeastern corner. The Southwestern Division received the most rain during the month, with an average of 2.50 inches, or 1.09 inches less than normal. The average for the Northern Division was 1.87 inches, or 1.76 inches less than normal; for the Southeastern Division the average was 1.92 inches, or 1.48 inches less than normal.

Only minor floods occurred in a few of the larger rivers of the State, during the early part of July, after which streams were well within their banks and receding, generally.

Only one small tornado, three damaging local windstorms, and one occurrence of heavy hail were reported during July.

With a let-up in the unprecedented rainfall which prevailed from February to June, inclusive, rapid progress was made in plowing and planting of field crops during July. All growing crops made good to excellent growth during the first half of the month, but began to deteriorate the latter half, in some areas, because of hot, dry weather. Corn was in various stages of development, with some early-planted tasseling and in roasting ear stage, while the bulk of the crop was late and still being cultivated at the close of the month. Hay making progressed nicely, with only a few interruptions, and a large crop of fine

(Continued on page 51)

PRESSURE, WIND, HUMIDITY, AND SUNSHINE

Stations	Sea-level pressure, extremes-inches				Wind				Relative humidity ¶			Percentage of sunshine	Degree days
	Highest	Date	Lowest	Date	Average hourly velocity	Maximum velocity	Direction	Date	6:30 a. m.	12:30 p. m.	6:30 p. m.		
Columbia........	30.22*	2	29.78*	28	5.4	17	nw.	28	86*	54*	55*	63	0
Kan. City Airp't.	30.26	2	29.74	9	8.7	29	nw.	13	79	51	48	68	0
St. Joseph........	30.26*	2	29.74*	9	7.0	23	n.	27	86*	54*	52*	79	0
St. Louis	30.26*	17	29.71*	28	8.4	24	n.	14	71	50	51*	80	0
Springfield	30.22	2	29.79	28	8.3	34	s.	9	89	58	59	81	1
Cairo, Ill........	30.22	31	29.71	28	6.2	28	n.	25	80	50	..	84	0
....	.....	..	.....	..	....	..	......	..	..	..	..	..	....

* Data for Airport station. ¶ C. S. T.

COMPARATIVE DATA FOR JULY

Year	Temperature			Precipitation					Number of days			
	Average for State	Highest	Lowest	Average for State	Average, Northern Division	Average, Southwestern Division	Average, Southeastern Division	Snowfall, Average for State	Precip. .01 inch or more	Clear	Partly cloudy	Cloudy
1888............	79.3	111	50	2.85	4.44	1.50	2.62	0	7	..	..	..
1889............	77.1	107	46	4.02	4.22	3.80	4.03	0	8	..	..	..
1890............	79.6	110	42	3.04	3.12	3.90	2.10	0	5	..	..	..
1891............	72.7	103	45	3.23	4.13	4.16	1.41	0	8	..	..	..
1892............	75.8	102	45	4.88	5.27	4.95	4.43	0	9	12	10	9
1893............	77.3	103	51	4.67	4.72	6.19	3.10	0	8	14	12	5
1894............	76.5	109	42	2.67	1.48	3.43	3.11	0	5	18	10	3
1895............	74.4	106	45	6.77	6.36	6.91	7.03	0	10	10	12	9
1896............	77.3	108	48	5.51	7.53	4.34	4.66	0	9	15	11	5
1897............	78.7	106	48	3.14	4.11	2.70	2.62	0	6	19	9	3
1898............	76.1	104	42	5.72	5.00	5.71	6.44	0	9	16	10	5
1899............	76.0	102	43	4.50	4.88	4.32	4.30	0	9	15	11	5
1900............	76.9	102	46	4.15	3.91	4.58	3.96	0	8	17	10	4
1901............	85.4	116	46	2.02	2.23	1.93	1.90	0	5	19	10	2
1902............	77.0	103	50	4.10	5.95	4.54	1.80	0	8	17	11	3
1903............	77.4	102	51	3.40	2.79	3.56	3.85	0	8	17	10	4
1904............	74.2	100	47	4.61	4.86	5.32	3.65	0	10	15	11	5
1905............	73.4	101	48	8.07	4.86	9.90	9.46	0	12	12	10	9
1906............	74.7	100	48	3.54	2.33	4.11	4.19	0	8	17	9	5
1907............	78.4	105	51	4.56	6.62	3.78	3.28	0	8	19	8	4
1908............	76.5	101	49	3.36	3.36	3.09	3.64	0	8	18	9	4
1909............	76.7	102	41	6.16	7.01	6.33	5.14	0	10	17	8	6
1910............	76.8	109	46	5.79	4.79	4.59	7.99	0	9	16	9	6
1911............	78.0	113	43	3.68	3.41	4.78	2.86	0	8	16	9	6
1912............	78.8	104	52	2.88	2.15	2.53	3.95	0	7	18	9	4
1913............	80.2	108	47	3.10	2.52	2.86	3.93	0	7	18	9	4
1914............	80.5	109	45	2.67	2.48	3.98	1.56	0	7	17	9	5
1915............	74.6	102	42	5.74	9.05	4.39	3.78	0	12	14	9	8
1916............	81.6	109	52	1.22	1.28	1.01	1.36	0	3	25	5	1
1917............	77.5	107	42	3.08	1.71	3.36	4.18	0	8	20	8	3
1918............	77.1	110	41	1.62	1.98	1.89	1.00	0	6	19	8	4
1919............	80.0	105	50	2.30	3.00	2.21	1.69	0	5	23	6	2
1920............	76.3	105	47	3.30	3.69	3.17	3.05	0	7	18	8	5
1921............	80.3	109	46	2.32	2.29	2.39	2.28	0	5	20	8	3
1922............	76.8	103	46	5.50	6.87	5.57	4.06	0	8	17	9	5
1923............	78.2	105	50	3.16	2.61	4.29	2.59	0	6	18	8	5
1924............	73.3	103	40	5.55	4.42	6.65	5.57	0	10	15	11	5
1925............	77.9	106	46	2.70	2.56	2.76	2.79	0	7	16	10	5
1926............	78.0	108	40	3.07	3.66	2.54	3.02	0	7	17	9	5
1927............	75.8	101	48	4.16	2.82	5.38	4.28	0	8	18	9	4
1928............	77.2	102	48	2.93	3.47	3.15	2.16	0	7	17	10	4
1929............	77.8	104	50	4.03	5.50	2.58	4.01	0	8	16	10	5
1930............	81.2	113	42	1.00	0.50	1.48	1.01	0	3	22	7	2
1931............	80.3	110	49	3.31	2.83	3.45	3.65	0	7	18	9	4
1932............	79.8	109	48	3.61	3.89	4.08	2.85	0	7	19	8	4
1933............	79.3	108	49	2.67	1.73	2.44	3.84	0	5	18	9	4
1934............	86.2	117	48	1.18	0.82	1.22	1.50	0	4	20	9	2
1935............	80.8	104	53	3.30	3.90	2.06	3.94	0	6	20	9	2
1936............	85.3	118	44	1.52	0.72	1.48	2.37	0	3	23	6	2
1937............	77.9	105	45	4.06	4.80	3.34	4.05	0	8	17	11	3
1938............	79.7	110	53	3.50	2.91	2.58	5.00	0	7	19	8	4
1939............	80.0	107	51	2.91	3.13	2.24	3.37	0	6	19	9	3
1940............	77.7	111	45	1.58	1.47	1.55	1.73	0	4	19	9	3
1941............	79.3	110	46	2.75	2.56	3.02	2.74	0	7	16	11	4
1942............	78.8	104	50	2.85	3.68	2.72	2.15	0	7	17	11	3
1943............	79.6	104	46	2.49	3.68	1.77	2.02	0	6	18	10	3
1944............	77.6	105	40	2.62	2.44	2.97	2.46	0	7	17	10	4
1945............	75.1	105	44	2.10	1.87	2.50	1.92	0	6	18	9	4
....	....	..	..	....	....	....	....	....	..	..	..	..
....	....	..	..	....	....	....	....	....	..	..	..	..
....	....	..	..	....	....	....	....	....	..	..	..	..
Period..........	78.0	118	40	3.54	3.63	3.59	3.40	0	7	18	9	4

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Climatological Data for July 1945

Stations	Counties	Elevation, feet	Temperature, in degrees Fahr.							Precipitation, in inches						Number of days				Prevailing direction of wind	Observers
			Length of record, years	Mean	Departure from the normal	Highest	Date	Lowest	Date	Length of record, years	Total	Departure from the normal	Greatest in 24 hours [4]	Date	Total snowfall, unmelted	With precip., .01 inch or more	Clear	Partly cloudy	Cloudy		
Northern Division																					
Albany	Gentry	930	4	73.4	......	97	24	49	11	16	4.51	−0.12	1.45	5	0	8	21	9	1	s.	Curtis E. Grace
Bethany	Harrison	916	50	74.2	− 2.1	97	24	48	11	52	3.01	−1.15	1.00	25	0	6	15	12	4	sw.	B. A. McGregor
Brookfield	Linn	767	4	75.2	......	101	24	52	11	4	2.18	......	0.40	26	0	7	14	7	10	s.	G. F. Breen
Brunswick	Chariton	652	64	74.6	− 1.5	99	23	56	11†	66	3.69	−0.42	1.52	30-1	0	7	20	5	6	nw.	O. K. Benecke
Canton, Lock & Dam 20	Lewis	488	7	74.0	......	98	24	51	11	15	0.72	−1.61	0.18	8	0	4	14	17	0	nw.	Lockmaster
Chillicothe	Livingston	779	36	74.6	− 2.4	102	24	54	10†	39	1.29	−2.13	0.51	26	0	6	27	3	1	ne.	Wm. J. Olenhouse
Clifton Hill	Randolph	731	46	74.8	− 1.6	98	24	53	15	36	2.44	−0.92	0.99	9	0	10	17	11	3	sw.	Dr. A J. Bradsher
Columbia	Boone	740	55	74.9	− 2.4	99	24	53	11	55	0.70	−2.79	0.47	8-9	0	7	16	11	4	s.	U. S. Weather Bureau
Conception	Nodaway	1,108	56	75.0	− 1.6	99	24	52	2	61	3.57	−1.10	1.68	5	0	7	18	10	3	s.	Fr. Adelhelm Hess
Edgerton	Platte	856	25	74.3	− 1.8	97	24	52	7†	42	1.81	−1.69	0.68	8	0	4	20	9	2	s.	Paul C. Handley
Elsberry	Lincoln	449	14	....	......	..	..	..	..	14	....	......	....	..	.	..	..	..	..	......	....
Fayette	Howard	760	65	73.5	− 3.7	98	23	51	11	62	1.75	−1.50	0.67	8	0	6	20	5	6	sw.	Irvin E. Schnell
Fulton	Callaway	818	57	74.4	− 3.3	99	23†	52	3†	53	1.48	−1.81	0.48	8-9	0	6	23	6	2	w.	Frank E. Hillgartner
Grant City	Worth	1,134	41	73.8	− 2.4	98	24	50	10	53	4.14	−0.49	1.53	25-26	0	8	13	16	2	w.	J. Homer Korn
Hannibal	Marion	759	53	74.2	− 2.6	97	24	54	15	61	0.42	−2.67	0.20	13	0	4	14	13	4	n.	Hannibal Water Dept.
Kansas City Airport	Jackson	741	56	77.4	− 0.7	100	22	60	11	56	1.73	−2.09	0.84	13	0	6	7	16	8	sw.	U. S. Weather Bureau
Kansas City Univ.	Jackson	908	7	75.5	......	98	22†	55	2	7	2.27	......	0.80	13	0	6	19	10	2	sw.	University of Kansas City
Kidder	Caldwell	1,020	53	73.7	− 2.9	99	24	51	10	57	3.35	−0.53	0.89	12	0	6	12	13	6	s.	Mrs. Geraldine Terry
Kirksville	Adair	969	56	74.2	− 1.8	99	22†	53	11	63	0.39	−3.91	0.15	4-5†	0	6	19	11	1	s.	Dr. Willis J. Bray
Lawson	Ray	1,070	7	74.4	......	99	22	53	10	7	3.43	......	1.80	12-13	0	7	16	13	2	sw.	Elmer E. Lamb
Louisiana	Pike	469	51	72.0	− 4.4	98	24	49	11	64	0.87	−2.73	0.40	9	0	4	26	2	3	nw.	Stark Bro's Nurseries
Macon	Macon	875	46	73.4	− 3.8	99	22	52	11	52	1.95	−1.46	0.20	8	0	5	14	9	8	ne.	John W. Atwell
Maryville	Nodaway	1,169	55	74.2	− 1.5	99	24	52	10	51	4.21	−1.02	2.34	4	0	8	15	9	7	se	R. B. Montomery
Memphis	Scotland	787	6	73.5	......	102	22†	50	10†	15	0.38	−2.42	0.12	5	0	3	15	14	2	sw.	John W. Alexander
Mexico	Audrain	800	56	73.2	− 4.1	98	24	52	12	67	2.35	−0.86	1.62	8-9	0	4	18	8	5	sw.	Darrence W. Stuart
Moberly‡ ....3½ mi. NE	Randolph	860	8	73.3	......	97	24	54	10†	8	2.52	......	0.83	8-9	0	4	28	1	2	se.	F. W. Bell
New Florence. 1 mi SE	Montgomery	885	2	72.8	......	96	23	52	3	3	1.56	......	0.79	8	0	4	8	17	6	sw.	U. S. Weather Bureau
Oregon	Holt	1,048	89	75.3	− 0.3	101	24	51	2†	89	3.17	−1.01	0.84	27	0	8	19	12	0	sw.	Miss Mina Wright
St. Charles	St. Charles	520	57	75.6	− 2.5	100	30	54	3	67	2.30	−0.69	1.15	9	0	5	20	9	2	sw.	Martin L. Comann
St. Joseph	Buchanan	957	35	76.0	− 1.4	100	24	56	10	73	2.60	−1.18	0.72	12	0	10	22	9	0	s.	U. S Weather Bureau
Saverton, Lock No. 22	Ralls	472	7	74.6	......	98	22†	55	3†	7	1.84	......	0.31	14	0	5	23	8	0	sw.	Lockmaster
Shelbina	Shelby	779	4	74.5[b]	......	100[b]	24	51[b]	11	52	0.49	−3.38	0.22	8	0	3	23[b]	5[b]	1[b]	se.	Guyman Hatcher
Steffenville	Lewis	650	47	74.2	− 3.6	100	24	49	11	52	0.59	−3.52	0.14	8	0	5	21	10	0	s.	Mrs. Fannie V. Gross
Tarkio	Atchison	916	42	74.4	− 2.4	101	24	50	10	51	2.88	−1.27	....	..	0	9	8	16	7	se.	C. A. A. Station
Trenton	Grundy	822	49	74.8	− 2.0	100	24	50	10	50	2.32	−1.75	0.83	5	0	8	19	10	2	s.	W. H. Estes
Unionville	Putnam	1,062	52	73.0	− 3.5	101	22	49	10	52	1.51	−2.61	0.70	24	0	7	16	13	2	w.	Mrs. Dora A. Wilson
Vandalia	Audrain	766	1	73.2	......	97	22†	50	11	6	1.88	......	1.23	8-9	0	3	28	2	1	nw.	Harold H. DeTienne
Warrenton	Warren	816	63	73.3	− 4.5	98	23	48	11	55	2.07	−1.07	0.88	8-9	0	4	21	9	1	sw.	W. T. Zimmerman
Keokuk, Iowa	Lee, Ia	574	73	75.2	− 1.7	100	24	55	10	73	0.04	−3.37	0.04	14	0	1	14	14	3	sw.	U. S. Weather Bureau
Division means	**and extremes**	.....	..	**74.3**	**− 2.5**	**102**	**22†**	**48**	**11**	..	**1.87**	**−1.76**	**2.34**	**4**	**0**	**6**	**18**	**10**	**3**	**sw.**	
Southwestern Division																					
Anderson ...1½ mi SW	McDonald	1,000	41	72.9[a]	− 4.4	95[a]	23†	50[a]	20	46	8.72	+4.31	4.26	26-27	0	5	23[a]	5[a]	2[a]	sw.	Samuel G. Chamberlain
Appleton City	St. Clair	813	50	74.8	− 3.4	95	21†	56	3	53	2.20	−2.11	1.00	7-8	0	5	21	1	9	sw.	Rolla Brown
Bolivar	Polk	1,071	42	75.4	− 1.9	97	23†	56	3	50	1.55	−2.17	0.72	30-1	0	4	15	12	4	sw.	Southwest Baptist College
Boonville	Cooper	650	7	74.4	......	97	23	57	3	68	1.24	−2.00	0.62	8	0	6	11	15	5	s.	Boonville Water Dept.
Carthage	Jasper	962	11	76.0	......	99	25†	54	2†	21	2.61	......	0.95	27	0	6	15	14	2	se.	Carthage W. and E. Plant
Clinton	Henry	786	52	75.4	− 2.9	99	23	55	3	58	1.84	−1.59	0.96	8	0	7	16	13	2	s.	U. S. Weather Bureau
Eldon	Miller	934	50	74.8	− 2.4	98	23†	54	3†	46	§0.83	−2.39	*0.35*	8	0	4	18	7	6	u.	E. H. Shepherd
Fort Leonard Wood	Pulaski	1,107	4	74.9[a]	......	97[a]	23†	53[a]	16	4	1.91	......	1.06	27	0	5	20[a]	2[a]	8[a]	s.	U. S. Army Medical Corps
Harrisonville	Cass	904	67	74.2	− 3.5	99	22	53	10	70	2.31	−1.30	0.95	9	0	7	12	10	9	se.	John H. Patterson
Jefferson City	Cole	557	55	74.0	− 4.1	97	22†	55	3	63	3.28	+0.17	0.80	27	0	7	16	8	7	s.	Mrs. Frank Kliegel
Joplin	Jasper	1,008	23	78.4	+ 0.3	96	23†	61	11	40	1.38	−3.24	0.55	1	0	5	23	6	2	s.	Empire Dist. Electric Co.
Lakeside	Miller	595	14	73.8	− 6.7	98	22†	51	3	14	0.79	−1.36	0.40	30-1	0	7	21	5	5	sw.	W. S. Frame
Lamar	Barton	980	57	74.6	− 3.8	95	22†	58	2†	64	3.94	−0.28	2.13	7	0	5	19	9	3	sw.	Mrs. Marie Mann
Lebanon	Laclede	1,265	57	72.6	− 4.3	97	24	51	3	58	2.49	−1.47	1.31	26-27	0	9	17	7	7	sw.	Mrs. Rosa E. Montelius
Lexington	Lafayette	688	60	77.0	− 0.4	100	22†	58	11	61	3.47	−0.54	1.58	30-1	0	7	21	1	9	......	Tilton Davis
Lockwood	Dade	1,078	39	76.2	− 1.4	97	23†	55	2	49	2.62	−2.14	0.98	7-8	0	6	21	10	0	sw.	Hubert A. Nieman
Marshall	Saline	779	58	76.2[e]	− 1.3	99[e]	23	55[e]	11	55	1.69	−1.88	1.33	9	0	4	17[c]	11[c]	0[c]	s.	Thomas A. Reid
Mountain Grove	Wright	1,463	44	75.2	− 1.2	99	24†	51	11	48	0.90	−2.99	0.62	26-27	0	6	16	13	2	se.	Mo. Fruit Exp. Station
Mount Vernon	Lawrence	1,174	33	74.6	− 3.1	97	25	53	2	45	4.13	−1.06	1.70	7	0	4	9	20	2	se.	James C. Williamson
Neosho	Newton	1,011	58	76.2	− 1.3	97	25	53	2	62	3.45	−1.20	1.74	9-10	0	5	14	15	2	se.	U. S Fisheries Station
Nevada	Vernon	862	52	77.0	− 2.6	99	25	57	2†	53	3.07	−0.59	0.99	30-1	0	6	23	1	7	sw.	Henry Kraft
Ozark Beach	Taney	700	5	76.7	......	101	23	55	11	20	4.80	+1.41	2.35	9	0	5	13	15	3	s.	Empire District Elec. Co.
Sedalia	Pettis	910	32	75.8	− 1.7	99	22†	55	11	34	1.41	−3.03	0.66	7-8	0	7	21[a]	5[a]	4[a]	sw.	Dr. J. E. Cannaday
Seligman	Barry	1,542	44	74.2	− 2.5	93	23	55	2†	42	3.54	−0.58	1.69	9-10	0	7	18[a]	10[a]	2[a]	sw.	Floyd E. Fawver
Seymour. 3½ miles NE	Webster	1,642	39	72.4	− 3.1	96	23	50	3	39	1.50	−2.44	0.56	12	0	6	24	3	4	s.	A. L. Hailey
Springfield.. ½ mile E	Greene	1,301	57	75.1	− 1.1	96	23	55	2	57	1.53	−2.68	0.78	11	0	5	10	13	8	s.	U. S Weather Bureau
Sweet Springs	Saline	700	4	74.8	......	99	24	53	11	4	1.04	......	0.49	8	0	6	15	16	0	s.	H. F. Nelson
Warrensburg	Johnson	878	58	77.0[c]	− 1.8	98[c]	22†	58[c]	2†	65	1.52	−2.45	1.14	7-8	0	9	22[a]	5[a]	3[a]	se.	Central Teachers College
Warsaw	Benton	687	44	75.5	− 2.8	100	23	55	18	50	1.38	−2.63	0.78	26-27	0	7	20	10	1	sw.	Dora B. Johnson
Wasola	Ozark	1,294	4	76.0	......	99	24	53	3	5	2.15	......	1.05	13	0	6	23	6	2	s.	A. W. Pinckney
Division means	**and extremes**	.....	..	**75.2**	**− 2.6**	**101**	**23**	**50**	**3†**	..	**2.50**	**−1.09**	**4.26**	**26-27**	**0**	**6**	**18**	**9**	**4**	**s.**	
Southeastern Division																					
Advance.... ¼ mile W	Stoddard	354	8	75.2	......	101	23	52	11†	8	2.07	......	0.78	5	0	6	12	12	7	ne.	U. S. Weather Bureau
Arcadia	Iron	926	64	73.4	− 2.4	103	23†	48	17	67	1.62	−2.50	1.15	30-1	0	3	20	4	7	e.	Arcadia College
Birch Tree... ½ mile E	Shannon	1,000	50	74.8[b]	− 1.8	100[a]	23	50[b]	11	51	1.40	−2.18	1.15	27-28	0	3	26[a]	2[a]	2[a]	se.	R. C. Moger
Black.......9 miles NW	Iron	1,000	52	71.8	− 3.8	99	23	44	17	52	0.86	−2.83	0.60	27-28	0	5	19	8	4	w.	Claude Volner
Campbell	Dunklin	311	19	78.6[d]	− 1.8	101[d]	24	58[d]	17	19	2.26	−1.22	0.75	6	0	8	17[b]	11[b]	1[b]	n.	Mrs. Ruth Christian
Caruthersville	Pemiscot	265	49	77.7	− 3.6	100	25	60	11	53	2.97	−0.32	1.36	25	0	7	18	10	3	sw.	Victor T. Malloure
Crystal City	Jefferson	420	11	75.0	− 4.6	101	23†	49	11†	11	1.43	−1.78	0.67	30-1	0	5	17[a]	5[a]	8[a]	nw	Richard K. Ragland
Doniphan	Ripley	344	41	77.1	− 1.5	105	24	49	16	41	0.90	−3.14	0.39	26-27	0	5	27	2	2	e.	Boyce Lackey
Farmington	St. Francois	896	34	73.8	− 2.5	100	23†	49	17	48	3.60	+0.04	3.21	30-1	0	4	6	14	11	n.	F. M. Karsch
Greenville	Wayne	460	36	76.0[c]	− 1.4	104[c]	23†	50[c]	16†	38	1.90	−1.86	0.83	27	0	5	21[c]	5[c]	2[c]	nw.	Beuford Shoemake
Jackson	Cape Girardeau	428	54	77.0	− 0.6	103	24	53	11†	55	0.76	−2.78	0.36	1	0	5	8	7	16	s.	John G. Putz
Koshkonong	Oregon	958	44	75.8	− 3.0	100	24	52	11	45	1.55	−2.22	0.87	26-27	0	5	22	6	3	se.	Mrs. Genevieve T. Smith
Licking...... 4 miles N	Texas	1,170	8	73.2	......	98	22†	47	3	8	1.27	−1.30	0.75	27	0	3	16	10	5	n.	U. S. Forestry Service
Malden....4 miles NNW	Dunklin	292	2	78.9	......	105	24	57	17	2	1.61	......	0.48	1†	0	6	12	14	5	n.	U. S. Weather Bureau

Continued on next page

Climatological Data for July 1945—Continued from preceding page

Stations	Counties		Temperature, in degrees, Fahr.							Precipitation, in inches						Number of days					Observers
		Elevation, feet	Length of record, years	Mean	Departure from the normal	Highest	Date	Lowest	Date	Length of record, years	Total	Departure from the normal	Greatest in 24 hours ^{4}	Date	Total snowfall, unmelted	With precip., .01 inch or more	Clear	Partly cloudy	Cloudy	Prevailing direction of wind	
Southeastern Division—	*Concluded*																				
Marble Hill	Bollinger	532	50	76.2	− 1.6	103	23†	49	17	52	3.01	−1.01	0.79	26–27	0	7	20	10	1	s.	R. A. DeWitt
Poplar Bluff	Butler	339	40	77.0	− 2.2	101	22†	54	11†	41	1.75	−2.19	0.97	5	0	4	21	8	2	s.	Joe Roehm
Rolla	Phelps	1,202	45	74.7	− 3.0	97	24	55	3†	61	2.70	−0.69	1.00	27	0	7	6	23	2	sw.	Rolla School of Mines
St. Louis:																					
City Office		465	108	77.6	− 1.2	98	23	62	2	108	1.00	−1.98	0.62	8–9	0	3	11	12	8	sw.	**Section Center**
St. Louis Airport	St. Louis	556	8	76.3	− 1.5	100	23	55	3	14	1.07	−1.59	0.60	8–9	0	4	11	15	5	nw.	U. S. Weather Bureau
St. Louis University	St. Louis City	578	33	77.4	− 3.1	98	23	60	2	33	1.26	−1.92	0.44	27–28	0	4	22	8	1	w.	St. Louis University
Salem	Dent	1,206	41	74.8	− 2.0	100	23	49	3	44	2.47	−1.03	1.52	8–9	0	6	17	13	1	s.	E. E. Martin
Sikeston	Scott	318	38	78.2	− 0.4	104	24†	54	11	48	2.16	−1.56	0.75	25	0	7	13	18	0	ne.	Mrs. Lucy W. Humphreys
Union ....1½ mi. SE	Franklin	520	7	74.1	......	99	23	50	17	28	2.25	−1.69	0.85	8–9	0	4	17	9	5	nw.	Cornelius Sieges
Vichy ....2 mi. NW	Maries	1,125	9	74.6	......	97	23	55	3	10	2.34	......	1.47	26–27	0	6	17	2	12	sw.	Civil Aeronautics Adm.
Wappapello Dam	Butler	475	6	78.2	......	103	23†	56	17	6	1.78	......	0.70	5	0	7	19	10	2	sw.	U. S. Engineer Office
Weingarten	St. Genevieve	833	4	75.7	......	102	23	51	15	5	1.42	......	0.90	30–1	0	3	22	7	2	n.	William J. Miller
West Plains	Howell	1,005	8	75.0	......	102	24	50	16†	8	0.41	......	0.23	26–27	0	4	17	10	3	s.	U. S. Weather Bureau
Willow Springs 500 ft E	Howell	1,238	4	74.2	......	98	23†	50	11†	38	1.18	−2.62	0.38	30–1	0	4	22	5	4	s.	Allen Frazee
Cairo, Ill.	Alexander, Ill.	314	73	79.0	− 1.6	100	23	61	17	74	0.84	−2.23	0.44	1	0	8	10	12	9	ne.	U. S. Weather Bureau
Division means	**and extremes**	.....	..	**75.9**	**− 2.2**	**105**	**24**	**44**	**17**	..	**1.92**	**−1.48**	**3.46**	**30–1**	**0**	**5**	**17**	**9**	**5**	**s.**	
State means	**and extremes**	.....	..	**75.1**	**− 2.9**	**105**	**24**	**44**	**17**	..	**2.10**	**−1.44**	**4.26**	**26–27**	**0**	**6**	**18**	**9**	**4**	**sw.**	

The departures from normal temperature are computed from the averages of the entire period for stations having 10 or more years of record. Departures of precipitation for stations with 15 years or more of record are computed from a normal or "standard mean", adjusted to a uniform 35-year period; for stations of 10 to 14 years the means for the period of record are used. The normal may be found by adding the departures when minus (−) or subtracting when plus (+). Figures and letters following stations indicate distance in miles and direction of station from the city Post Office, unless otherwise indicated. T. Trace or 0.005 inch or less. ^{a}, ^{b}, ^{c}, etc., number of days missing; for example, ^{b}, indicates two days missing. Italics data interpolated. § Partly interpolated. † And other dates. ‡ Received too late to be included in means and summaries. ^{4} Best available used for stations not equipped with recorders. Post office address of: Altona is Adrian; Crane Mountain is Arcadia; East End is Goodland; Eastwood Lookout is Van Buren; Ellsinore Lookout is Mill Spring; Hailey is Cassville; High Lookout is Birch Tree; Macedonia Lookout is Doniphan; Perry is Center; Pilot Knob is Ironton; Pineview Lookout is Duke; Sugar Camp Lookout is Cassville; Wilderness Lookout is Lampe.

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quality hay was saved. Harvest of small grains was completed and threshing and combining were progressing throughout the latter half of the month. Yields were considerably less than normal, as a rule. A larger than normal crop of soybeans was planted, as much ground that had been intended for corn was planted to that crop because of the lateness of the season. Cotton, in the southeastern counties, made good progress during the month and was blooming during the latter half. A fine crop of early peaches was harvested during the two weeks of the month. Gardens and truck were late, as a rule, but made good growth and development, although needing rain in most sections of the State, at the close of July. Pastures remained green, were in good condition and able to sustain livestock throughout the month in most areas, but were generally needing rain the last week or ten days. In the event of killing frost by the normal date, or earlier, much of the corn crop would be damaged, and farmers were being urged to construct silos, either permanent or temporary, to save as much of the crop as possible.—M. R. W.

TEMPERATURE

The monthly mean for the State, 96 stations reporting, was 75.1°, or 2.9° cooler than the 58-year July average. The highest monthly mean was 78.9° at Malden, and the lowest was 71.8° at Black (near). The highest reported was 105° at Doniphan and Malden, on the 24th, and the lowest was 44° at Black (near), on the 17th.

PRECIPITATION

The average for the State, 214 stations reporting, was 2.10 inches, or 1.44 inches less than the 58-year July average. The greatest monthly amount was 8.72 inches at Anderson, and the least was 0.15 inch at Kahoka. The greatest amount reported in 24 hours was 4.26 inches, at Anderson, on the 26-27th. The average number of days with 0.01 inch, or more, was 6.

MISCELLANEOUS PHENOMENA

Eclipse.—Solar, partial on 9th.

Floods.—In Grand River, at Brunswick, 1st to 4th; also 8th. In Missouri River, at Waverly and below, 1st to 5th. In Mississippi River, in reach Hannibal to Dam No. 25, 1st to 10th; at Louisiana, 14th to 19th and on 27th. In Osage River, at Lakeside, 8th to 14th; 16th to 20th. In St. Francis River, at Fisk, continued from June into August.

Fogs.—Heavy, 2d, 9th, 14th, 23d, 28th, 31st.

Hail.—Light, on 5th at Advance; 8th at Cook Station; 13th at Lawson. Heavy, on 7th. (See special hailstorm notes).

Tornado.—7th. (See special tornado notes).

Windstorms.—8th, 25th. (See special windstorm notes).

HAILSTORM

Heavy hail fell both northwest and east of Jerico Springs, in connection with a local tornado on the 7th at 5:30 p. m. (C. W. T.). Path of the hailstorm was ¼ to 2½ miles wide and 15 miles long; storm moved from the northwest. Stones were described as small to medium, with damage to corn, wheat, oats, hay, gardens, fruit, trees, and roofs estimated at "thousands of dollars".

TORNADO

A small local tornado struck Jerico Springs, Cedar County, at 5:30 p. m., (C. W. T.) on the 7th, resulting in property damage estimated at $50,000 and crop damage estimated at $40,000. The storm was accompanied by heavy hail, which did not fall in the town proper, but fell both northwest and east of Jerico Springs. The tornado came from the northwest, and covered a path ¼ to 2½ miles wide and 15 miles long. Two funnel-shaped clouds were reported. Two persons were drowned in a rain-swollen stream, as a result of the heavy rain which accompanied this storm.

WINDSTORMS

At 3:30 p. m., (C. W. T.) on the 8th, a damaging windstorm struck Eldon, resulting in heavy damage to trees and relatively light property and crop damage. The storm came from the northwest, and covered a path about one mile wide and four miles long. Power and telephone service was disrupted and roofs of some buildings, including the Eldon High School, were blown off or damaged. Amount of damage not reported.

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Daily Precipitation for July 1945

Stations	Drainage basins	Day of month																															Total
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Northern Division																																	
Albany	Grand				.01	1.45			.04					1.44	.28											.58	.07		.64				4.51
Amity	do	.91			.04	.71			.09	.06			T.	.72	.23			T.								.06	.46		.02				3.30
Auxvasse	Missouri	.48							.32	.10																.18							1.08
Bethany	Grand					.88				.02				.73	.38											.89	.11		T.		T.		3.01
Bowling Green[2]	Mississippi	.60								.43																							1.03
Brookfield[2]	Grand	.62				.23				.31					T.	.20											.19	.40		.23			2.18
Browning 3 mi. NE	do				T.	.28			.10					.21	.13											.20	T.				T.		0.92
Brunswick[2]	do	1.52				.12				.73	.47			.05		.07											.73						3.69
Canton, Lock No. 20[2]	Mississippi	.50				.02				.18				T.		.02																	0.72
Centralia[2]	do	.74				.03				1.26		.06				.02																	2.11
Chillicothe[2] (A)	Grand	.32				.24				.09					.12												.51	.01					1.29
Chillicothe[2] (B)	do	.43				.35				.16					.08	.02											.25	T.					1.29
Clifton Hill	Chariton	.42			.01	.18		.01	.70	.99			.01		.06										.02	.04							2.44
Columbia[1, 5]	Missouri	.03				.03			.41	.06			T.			T.									.02	T.	.14	.01	T.				0.70
Columbia 9 mi. WNW	do	.40			T.	.06			.45	.07				T.											T.	.19	.29						1.46
Conception	do					1.68			.07					.84	.23											.24	.46		.05				3.57
Edgerton	do					.50			.68					.48	.15																		1.81
Edina[2]	Mississippi	.26				.10				.19				T.																			0.55
Elsberry	do																																....
Elsberry S. C. S.[2]	do	.39				.05				1.12																			.41				1.97
Farber[2] 1 mile N	do																																....
Fayette	Missouri	.28			T.	.09		T.	.67	.23			T.	T.												.12	.36	T.					1.75
Fulton[2]	do	.63			T.	T.				.35	.13				T.												.10	.08	.19				1.48
Gallatin[2]	Grand	.89			.03	1.40				.10				.50	.19								T.				.25						3.36
Grant City	do				.11	.78			.12					.75	.32			T.								1.51	.02		.53				4.14
Hannibal[1] (A)	Mississippi				.06				.07					.20	.09																		0.42
Hannibal[2] (B)	do	1.57				.08				.05				.20		.08																	1.98
Hermann[2]	Missouri	.60								.18	.08																1.02	.05	.50				2.43
Kahoka[2]	Mississippi	.12			.03	T.																											0.15
Kansas City Airport[1, 5]	Missouri	T.				.01		T.	.55	.12			T.	.84	T.			T.									.14	.07					1.73
Kansas City University	do							.03	.71	.14			T.	.80	T.			T.									.20	.39					2.27
Kidder[2]	Grand	1.00				.72				.22				.89	.02												.50						3.35
King City	Missouri				.24	1.29								.66	.25			T.								T.	1.42		.02				3.88
Kirksville	Mississippi	T.			T.	.15			*	.15					.04														.03	T.	.02		0.39
Knoxvillle[3]	Missouri				T.	.29		T.	.17	.02	T.		T.	.07	.13												T.	T.					0.68
LaBelle[2]	Mississippi	.50								.42					T.																		0.92
Lawson	Missouri				.04	.68			.20	.06				1.80	.62												.03						3.43
Linneus[2]	Grand	1.30			.23			T.		*	.10				*	.20											.17						2.00
Louisiana[2] (A)	Mississippi	.35				T.				.40					.05		.07																0.87
Louisiana[2] (B)	do	.43				T.				.28						.08																	0.79
Lucerne[2]	Grand	.24				.43			.05					.37																			1.09
Macon[2]	Chariton	1.55				.12				.20						.04											.04						1.95
Madison[2]	Mississippi	.61				.08				.65																							1.34
Martinsburg[2]	Missouri	.84								1.32	.05					T.								T.			.02	T.					2.23
Maryville	do				.02	2.34			.12						.56			.03								.67	.43		.04				4.21
Memphis[2]	Mississippi	.15				.12		T.		T.				.11											T.							T.	0.38
Mexico[2]	do	.59								1.50	.12					T.											.14						2.35
Milan[2]	Grand	.16				.39								.25	.06												.29						§1.15
Moberly[2] 3½ mi. NE	Mississippi	1.03				.08				.83					.58																		2.52
Monroe City	do	.28			.12				.46						.06																		0.92
New Florence[3, 5] 1 mi SE	Missouri				T.	T.			.79	.07			T.	.03												T.		.67	T.				1.56
Oregon	do				.34	.62			.18	.24			T.		.74							T.				.07	.14		.84				3.17
Palmyra	Mississippi	.45			T.				.40						T.																		0.85
Paris[2]	do	.77				.03	T.			.76						.06																	1.62
Perry 1 mile E	do	.35							.10	.35					.35																		1.15
Philadelphia[2]	do																																....
St. Charles[2] (A)	Missouri	.39								.37	1.15				.07								T.						.32				2.30
St. Charles[2] (B)	do	.69								.41	1.10				T.														.27				2.47
St. Joseph[1, 5]	do				.03	.59			.18	.01			.72		.40			T.								.19	.14	.33	.01				2.60
Saverton, Lock No. 22[2]	Mississippi	1.42				.02				.08					T.	.31												.01					1.84
Shelbina	do	.24			T.				.22						.03												T.						0.49
Shelbyville[2]	do	1.34				.04				.08																		.06					1.52
Steffenville	do	.30				.02			.14					.02	.11																		0.59
Tarkio[3]	Missouri	T.			.06	.04			.01	T.			T.		.38		.20	.03								.36	.93	.87					2.88
Trenton[2]	Grand	.48				.83	T.		T.	.07				.09	.22												.45	.15	.03				2.32
Troy[2]	Mississippi	.65				T.				.92	.25				.20														.70				2.72
Unionville[2]	Chariton	.15				.45			.09	.02					.07											.70						.03	1.51
Vandalia	Mississippi	.65							*	1.23																							1.88
Warrenton	do	.78			T.	T.			.18	.70																T.		.41	T.				2.07
Keokuk, Iowa[1]	do				T.	T.		T.	T.				T.		.04						T.		T.	T.	T.						T.		0.04
Southwestern Divis																																	
Altona[2]	Osage	1.20							.14	1.30	.05			.09													.17	.13					3.08
Anderson[2] 1½ mi. SW	Neosho	.67	.22				T.				1.60																	4.26	1.97				8.72
Appleton City	Osage	.45						*	1.00	.20																	.55						2.20
Ava Ranger Station[2]	White	.05	.15								.15				.55													.45					1.35
Bolivar	Osage	.72			T.	T.			.05	.49				T.													T.	.29					1.55
Boonville[2] (A)	Missouri	.25				.10				.62	.05			.09													.13						1.24
Boonville[2] (B)	do	.24				.07				.61	.04			.02													.06						1.04
Bradleyville[2]	White										.60																	1.27	.13				2.00
Buffalo[2]	Osage	.82	.20						.06		.85																		2.20				4.13
Butler[2]	do	1.87	.21						2.47	1.79	.06			.18					T.								.20	.47					7.25
Caplinger Mills[2]	do	.92	.04				T.		.10	T.	1.28																.51	.21	.08				3.14
Carthage	Neosho	.70							.70	.20	.06																	.35	.60				2.61
Cassville[2]	White	.22	.63						.14		1.23																	1.08	1.75				5.05
Clinton[3]	Osage	.27				T.		.11	.96	.07				.05				T.									.11	.27					1.84
Concordia	Missouri	T.				.21			.74	.18				.02	.21												T.	.05					1.41
Crocker	Osage	.48								.93				.14														1.33					2.88
Eldon	Missouri	.17			.19	.12			.35																								§0.83
Eldorado Springs	Osage	.83				T.		.23	.08	.62									T.								1.04	.23					3.03
Elijah[2]	White	.23	.18								.11																	T.	1.97				2.49
Fort Leonard Wood[2]	Gasconade	.50				T.				T.	T.				.03			.16										1.06	.16				1.91
Galena[2]	White	.10	.50						1.36		1.26				.28													.10	.66				4.26
Granby[2]	do	.60	.36			.01				.88	1.37																	.10	.75				§4.07
Hailey	do	.49							.36	.41	3.16			.26														1.76					6.44
Harrisonville[2]	Osage	.75							.06	.95				.11													.27	*	.17				2.31
Jefferson City[2] (A)	Missouri	1.70								.67	.03				.02											.02	.04	.80					3.28
Jefferson City[2] (B)	do	1.37	T.			T.				.58	.05		T.	T.	.01											.01	.05	.80	T.				2.87
Joplin[1]	Neosho	.55						.05		.28																	.40	.10					1.38

Continued on next page

Daily Precipitation for July 1945—Continued from preceding page

Stations	Drainage-basins	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Total
Southwestern Division—	*Concluded*																																
Lakeside[2, 5]	Osage	.37	.03	....	....	.02	....	....	.02	.07	.08	....	....	....	....	....	....	....	T.	....	....	....	....	....	....	....	....	.20	T.	....	....	....	0.79
Lamar[2]	Neosho	.63	.15	....	....	....	.23	....	2.13	....	.80	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	T.	....	....	....	....	3.94
Lebanon[2]	Osage	.55	.04	....	....	.04	.04	....	.05	.06	.40	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1.05	.26	....	....	....	2.49
Lexington[2]	Missouri	1.58	....	....	....	.30	....	....	....	1.10	.05	....	....	.12	....	.30	....	....	....	....	....	....	....	....	....	....	.02	....	....	....	....	....	3.47
Lockwood	Osage	.67	....	....	T.	T.	....	.52	.98	.20	.05	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.20	T.	....	....	....	....	2.62
Mansfield[2]	White	....	.12	....	....	....	....	.05	....	....	.17	....	....	....	1.50	....	....	....	....	....	....	....	....	....	....	....	....	.32	.25	....	....	....	2.41
Marshall.	Missouri	....	....	....	....	.15	....	T.	....	1.33	....	....	....	....	.14	....	....	....	....	....	....	....	....	....	....	....	.07	....	....	....	....	....	1.69
Marshfield[2]	White	.05	....	....	....	....	....	....	.32	....	.29	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	0.66
Mountain Grove[2]	Gasconade	.04	.01	....	....	....	....	....	....	....	.07	....	....	....	.16	....	....	....	....	....	....	....	....	....	....	....	....	.50	.12	....	....	....	0.90
Mount Vernon[2]	Neosho	.66	....	....	T.	....	....	....	1.70	....	.11	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1.66	....	....	....	4.13
Neosho	do	.98	....	....	T.	....	....	....	....	.31	1.43	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.25	.48	....	....	....	....	3.45
Nevada	Osage	.99	....	....	T.	T.	T.	.68	.20	.81	....	....	....	....	....	....	....	....	T.	....	....	....	....	....	....	....	.17	.22	....	....	....	....	3.07
Osceola[2]	do	.95	.07	....	....	....	....	....	.19	.17	.11	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.13	.16	....	....	....	1.78
Ozark[2]	White	.14	.34	....	....	....	....	....	.25	....	.55	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.20	....	....	....	....	1.48
Ozark Beach[2]	do	1.13	.09	....	....	....	....	....	....	....	2.35	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.96	.27	....	....	....	4.80
Pierce City[2]	Neosho	.84	.08	....	....	....	.07	1.11	....	....	.46	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.32	.87	....	....	....	3.75
Pineview Lookout	White	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Pleasant Hill[2]	Osage	.77	....	....	....	T.	....	....	.18	1.19	.02	....	....	.16	*T.*	....	....	....	T.	....	....	....	....	....	....	....	.06	.04	.14	....	....	....	2.56
Roby	Gasconade	.10	....	....	T	.26	....	....	.02	.13	....	....	....	....	.08	....	....	....	....	....	....	....	....	....	....	T.	....	1.16	....	....	....	....	1.75
St. Thomas[2]. 2¼ mi SW	Osage	.63	....	....	....	....	....	....	....	*.07*	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	§0.70
Saunders Lookout[2]	White	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Sedalia	Missouri	.38	....	....	*T.*	.17	....	*	.66	.15	....	....	....	....	.03	....	....	*T.*	....	....	....	....	....	....	....	....	*T.*	.02	....	....	....	....	1.41
Seligman[2]	Neosho	.40	.46	....	....	....	....	*	.10	....	1.69	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.53	.36	....	....	....	3.54
Seymour[2]....3½ mi. NE	White	.03	....	....	....	....	....	....	.25	.25	.30	....	....	.56	....	....	....	....	....	....	....	....	....	....	....	....	....	.11	....	....	....	....	1.50
Shell Knob[2]...3 mi. SE	do	.34	.40	....	....	....	....	....	.12	....	1.38	....	....	....	T.	....	....	....	....	....	....	....	....	....	....	....	....	1.43	1.34	....	....	....	5.01
Siloam Sprgs Lookout[2]	do	.20	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.76	....	....	....	0.96
Springfield[1, 5]...½ mi. E	do	.23	....	....	T.	.05	....	.78	....	.36	T.	....	....	T.	T.	....	....	T.	T.	....	....	....	....	....	....	....	T.	.11	....	....	....	....	1.53
Stover[2]	Missouri	.40	....	....	....	*.08*	....	....	*	.34	.09	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	*.33*	....	....	....	....	§1.24
Swan Tower Lookout[2]	White	.25	.05	....	....	....	....	....	.13	....	.32	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.15	.07	....	....	0.97
Sweet Springs	Missouri	.02	....	....	T.	.29	....	.02	.49	.16	....	....	....	....	.06	....	....	....	....	....	....	....	....	....	....	....	T.	T.	....	....	....	....	1.04
Tecumseh[2]...¼ mi. W	White	.18	.24	....	....	....	....	....	....	....	.12	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.04	.09	....	....	....	0.67
Topaz[2]	do	.35	.08	....	....	....	....	....	....	....	.13	....	....	....	T.	....	....	....	....	....	....	....	....	T.	....	....	....	*	.35	....	....	....	0.91
Vanzaut[2]....3¾ mi. SE	do	.37	.18	....	....	....	....	....	....	....	.17	....	....	....	.30	....	....	....	....	....	....	....	....	....	....	....	....	.12	1.12	....	....	....	2.26
Warrensburg	Missouri	....	....	....	.01	.09	....	.20	.94	.11	....	....	....	.03	.04	....	....	....	....	....	....	....	....	....	....	....	.07	.03	....	....	....	....	1.52
Warsaw[2].........(A)	Osage	*	.31	....	T.	.05	....	....	.06	.13	.05	....	....	T.	....	....	....	....	....	....	....	....	....	....	....	....	....	.78	....	....	....	....	1.38
Warsaw[2].........(B)	do	.20	....	....	....	.05	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.32	.20	....	....	....	....	0.77
Wasola[2]	White	.12	.55	....	....	....	.07	....	....	....	.10	....	....	....	1.05	....	....	....	....	....	....	....	....	....	....	....	....	T	.26	....	....	....	2.15
Waverly[2]	Missouri	.45	....	....	....	.20	....	....	....	.78	....	....	....	....	.05	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1.48
Wilderness Lookout[2]	White	.12	.31	....	....	....	....	....	....	....	.68	....	....	....	.52	....	....	....	....	....	....	....	....	....	....	....	....	.33	.58	....	....	....	2.54
Southeastern Division																																	
Advance[3].....¼ mile W	St. Francis	.20	....	....	....	.78	....	....	....	T.	....	....	....	....	.41	....	....	....	....	....	....	....	....	....	....	.18	....	.11	.39	....	....	....	2.07
Alton(1)....10 miles SE	Black	.48	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.04	....	....	....	1.01	....	....	....	....	1.53
Alton(2)[2] ...7 miles NE	do	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Annapolis[2].....7 mi. W	do	.33	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.68	.05	....	....	1.06
Arcadia[2]	St. Francis	1.15	....	....	....	....	....	....	....	T.	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.19	....	.28	....	....	....	1.62
Bellevue[2]	Meramec	3.46	....	....	....	....	....	.03	....	.18	T.	....	....	....	T.	....	....	....	....	....	....	....	....	....	....	....	T.	.04	.85	....	....	....	4.56
Bernie[2]	St. Francis	1.36	....	....	....	....	.13	....	....	....	.26	....	....	....	1.16	....	....	....	....	....	....	....	....	....	....	....	....	....	.37	.51	....	....	3.79
Birch Tree[2] ...½ mile E	Black	.22	.03	....	....	....	T.	....	....	....	T.	....	....	....	....	....	....	....	....	....	....	....	....	T.	T.	T.	T.	T.	1.15	....	....	....	1.40
Black...... 9 miles NW	do	.14	....	....	....	.09	....	....	....	.03	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.50	.10	....	....	....	0.86
Bloomfield[2]	St. Francis	1.64	....	....	....	....	....	....	....	....	.24	....	....	....	.18	.06	....	....	....	....	....	....	....	....	....	....	....	....	.23	.64	....	....	2.99
Bunker[2]... 4 miles NW	Black	.61	....	....	....	....	....	....	....	.43	.28	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.67	....	....	....	1.99
Campbell	St. Francis	.15	....	....	....	....	.75	....	....	.03	....	....	....	.27	....	....	....	....	....	....	....	....	....	....	....	.50	....	.28	.27	.01	....	....	2.26
Cape Girardeau[2]	Mississippi	1.40	....	....	....	....	....	....	....	....	....	....	....	....	.09	....	....	....	....	....	....	....	....	....	....	....	.26	....	.06	.35	....	.07	2.23
Caruthersville[2]	do	.26	.39	....	....	....	.37	....	....	....	....	....	....	....	T.	.31	....	....	....	....	....	....	....	....	....	....	1.36	....	.16	.12	....	....	2.97
Centerville(1)[2]	Black	.06	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.02	.54	....	....	....	0.62
Centerville(2)[2]	do	.50	....	....	....	....	....	....	....	.04	.01	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.01	.65	....	....	....	1.21
Cook Station[2]	Meramec	.98	....	....	....	....	....	....	....	1.44	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.45	....	....	....	2.87
Crane Mountain[2]	St. Francis	.94	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.34	....	....	....	1.28
Crystal City	Mississippi	.67	....	....	....	....	....	....	....	.01	....	....	....	....	....	....	....	....	....	....	....	....	*T.*	....	....	.25	....	.15	.35	....	....	....	1.43
Cuba	Meramec	.40	....	....	T.	....	....	....	.19	.22	....	....	....	....	.13	....	....	....	....	....	....	....	....	....	....	....	.12	1.11	.03	....	....	....	2.20
Deering[2]	St. Francis	.97	....	....	....	....	.29	....	....	....	.24	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.10	....	....	.31	....	....	....	1.91
De Soto[2]	Mississippi	.28	.95	....	....	....	....	....	....	.04	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.20	.02	.24	....	....	....	1.73
Dexter[3]	St. Francis	1.42	....	....	....	....	.24	....	....	....	.31	....	....	....	.09	....	....	....	....	....	....	....	....	....	....	....	T.	....	.22	.42	....	....	2.70
Doniphan(1)	Black	....	....	....	T.	....	.13	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	*	.31	.39	.07	....	....	....	0.90
Doniphan(2)[2]	do	.06	.10	....	....	....	.11	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.51	....	....	....	....	....	0.78
East End[2]	Meramec	.25	....	....	....	....	....	....	....	.50	.60	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.20	.05	.52	....	....	....	2.12
Eastwood Lookout[2]	Black	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.58	....	....	....	0.58
Ellington[2]	do	.50	....	....	....	....	....	....	.20	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1.16	....	....	....	1.86
Ellsinore Lookout[2]	do	....	....	....	....	....	....	....	....	....	.12	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.18	....	....	....	0.30
Farmington[2]	St. Francis	3.21	....	....	....	....	....	....	....	T.	....	....	....	....	.08	....	....	....	....	....	....	....	....	....	....	....	.02	....	.29	....	....	....	3.60
Fisk[2]	do	.07	....	....	....	T.	.49	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.21	....	.17	.07	....	....	1.01
Fredericktown[2]	do	1.50	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.07	....	.25	....	....	....	1.82
Gerald[2]	Meramec	2.50	....	....	....	....	....	....	....	.35	.15	....	....	....	.60	....	....	....	....	....	....	....	....	....	....	....	....	.85	.29	....	....	....	4.74
Greenville(1)	St. Francis	.50	....	....	....	....	.15	....	.41	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.01	....	.83	....	....	....	....	1.90
Greenville[2](2)	do	.59	....	....	....	....	.08	....	....	....	.32	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.07	....	.51	.02	....	....	1.59
High Lookout[2]	Black	.57	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.18	....	....	1.29	....	....	....	2.04
Jackson	Mississippi	.36	....	....	....	....	....	....	....	....	....	....	....	....	.04	....	....	....	....	....	....	....	....	....	....	.14	....	.14	.08	....	....	....	0.76
Jefferson Barracks[2]	Mississippi	.39	.05	....	....	....	....	....	....	.87	.42	....	....	....	.02	....	....	....	....	....	....	....	....	....	....	....	T.	....	.57	....	....	....	2.32
Jerome[2]	Gasconade	.14	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.22	1.12	....	....	....	1.48
Koshkonong[2]	Black	.54	.12	....	....	*T.*	....	....	....	.02	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.06	.81	....	....	....	1.55
Leeper[2]	do	.55	....	....	....	....	....	....	....	....	.09	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.11	....	.37	.12	....	....	1.24
Licking(1)... 4 miles N	Gasconade	....	....	....	....	....	....	....	....	.36	....	....	....	....	.16	....	....	....	....	....	....	....	....	....	....	....	....	.75	....	....	....	....	1.27
Licking(2)[2]	do	.10	....	....	....	....	....	....	....	....	.13	....	....	....	.05	....	....	....	....	....	....	....	....	....	....	....	....	....	.39	....	....	....	0.67
Macedonia Lookout[2]	Black	.50	....	....	....	....	.47	....	....	....	.05	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.07	....	....	....	1.09
Malden[3]...4 miles NNW	Mississippi	.48	....	....	....	.30	....	....	....	.28	....	....	....	T.	....	....	....	....	....	....	....	....	....	....	....	.01	....	.37	.17	....	....	....	1.61
Marble Hill	do	.93	....	....	....	.19	....	....	....	....	....	....	....	....	.75	....	....	....	....	....	....	....	....	....	....	.19	.40	.39	.16	....	....	....	3.01
Meramec Park[2]	Meramec	2.02	....	....	....	.02	....	....	....	.12	....	....	....	....	.67	....	....	....	....	....	....	....	....	....	....	....	T.	.48	.02	....	....	....	3.33
Morehouse	Mississippi	.64	....	....	....	....	.39	....	....	.20	....	....	....	....	.07	....	....	....	....	....	....	....	....	....	....	.78	....	.79	....	.13	....	....	3.00
Moselle[2]	Meramec	.98	....	....	....	....	....	.03	....	.32	.15	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.18	.20	.35	....	....	....	2.21
New Madrid[2]	Mississippi	.52	....	....	....	....	.15	....	....	....	T.	....	....	....	....	.11	....	....	....	....	....	....	....	....	....	....	....	....	1.11	.12	....	....	2.01
Oates Tower[2]	Black	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Owensville[2]	Gasconade	.90	....	....	....	....	....	....	....	.40	.06	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.93	.43	....	....	....	2.72
Pacific[3]	Meramec	1.40	T.	....	....	....	....	....	....	.87	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.70	.22	*.37*	....	....	....	§3.56
Parma[3]	St. Francis	.57	....	....	....	....	.08	....	....	....	.61	....	....	....	.72	....	....	....	....	....	....	....	....	....	....	....	....	....	1.66	.07	....	....	3.71
Perryville	Mississippi	.50	....	....	....	....	....	....	....	....	.15	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.45	....	.25	....	....	....	....	1.35
Pilot Knob[2]... 2 mi. NE	St. Francis	....	....	....	....	....	....	....	....	....	T.	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.60	....	....	....
Poplar Bluff[2]....(A)	Black	.10	....	....	....	....	.97	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.20	....	.48	....	....	....	1.75
Poplar Bluff[2]....(B)	do	.10	....	....	....	....	1.10	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.27	T.	....	.48	....	....	....	1.95
Puxico[2]	St. Francis	.51	....	....	....	....	.16	....	....	....	.10	....	....	....	.14	....	....	....	....	....	....	....	....	....	....	.32	....	....	.17	.02	....	....	1.42
Qulin[2]	do	.90	T.	....	....	....	1.04	....	....	....	.02	....	....	....	T.	....	....	....	....	....	....	....	....	....	....	....	.10	....	2.11	.46	....	....	4.63
Reynolds[2]	Black	.69	....	....	....	....	....	....	....	.13	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.79	....	....	1.61
Richwoods[2]	Meramec	1.55	....	....	....	....	....	....	....	.06	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.30	....	.06	....	....	....	1.97

Continued on next page

Daily Precipitation for July 1945—Continued from preceding page

Stations	Drainage-basins	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Total
Southeastern Division – Concluded																																	
Rolla[2]	Meramec	.25	T.			.07			T.	.72	.04				.12												T.	.50	1.00				2.70
Round Spring[2]	Black	1.90									.06																		1.06				3.02
St. Louis:																																	
City Office[1, 5]	Mississippi	T.			T.				.32	.30					T.										T.	T.		.38	T.				1.00
Airport[3, 5]	Missouri	T.							.28	.32					.46										T.	T.		.01					1.07
St. Louis Univ.[1, 5]	Mississippi	T.							.39	.43					T.											T.		.43	.01				1.26
Washington Univ.[2]	do	.47								.62	.60																	.02	.40				2.11
Salem[2]	Meramec	.14								1.45	.07				.07												.30		.44				2.47
Sikeston[2]	Mississippi	.29					.51				.08				.09												.75		.24	.20			2.16
Steelville[2] ...2½ mi. NE	Meramec	.40								.80					.01												.21		.47				1.89
Summersville[2]	Black	.07													T.														.66				0.73
Union ....1½ mi. SE	Meramec								.17	.68																.68		.72					2.25
Valley Park[2]	do	.75								.90	.87																.70	T.	.38	.08			3.68
Van Buren[2]	Black	.28																											.86				1.14
Vichy[3] ..... 2 miles NW	Meramec	.03			T.	T.			.50	.04			T.	.18											T.		.15	1.44					2.34
Wappapello Dam[2]	St. Francis	.10					.70				.54					.03											.14		.25	.02			1.78
Webster Groves	Mississippi	.49							.33	.53					.19											T.		.40	T.				1.94
Weingarten	do	.90								T.				T.												.50		.02					1.42
West Plains[3]	Black	.07				.11																					.06	.17					0.41
Williamsville[2]	do	T.																									.21		1.36				1.57
Willow Springs[2] 500 ft E	White	.38									.20				.25														.35				1.18
Winona Ranger Sta.[2]	Black	.55					.07				.01																.35		.68				1.66
Zalma[2]	Mississippi	.66					T.																				.11		.46	.56			1.79
Cairo, Ill.[1, 5]	do	.45				.04				.01				.04	.03												.07		.19	.01		T.	0.84

Except as otherwise indicated, amounts are for 24 hours ending late in afternoon. [1] Midnight to midnight. [2] Measured in the morning; for the preceding 24 hours. [3] Data for 24 hours ending 12:30 A. M. (C. S. T.) of following day. [5] Recording gage. T. Trace or 0.005 inch or less. * Included in next measurement. // Wind-shield on gage. ′ Italics data interpolated. § Partly interpolated. (A) Record from cooperative station gage. (B) Record from river station gage. ‡ Received too late to be included in means and extremes.

Daily Evaporation (inches), Mean Temperature (F°), and Wind Movement (miles) for July 1945

(See precipitation data in daily precipitation table)

Station	Data	Day of month																															Monthly
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Columbia (Univ. of Mo. Hort. Exp. Sta. 9 mi. WNW.)	Evaporation	.230	.220	.101	.326	.223	.278	.201	.071	.103	.278	.222	.230	.160	.170	.279	.210	.171	.171	.231	.247	.269	.260	.221	.340	.181	.199	.140	.280	.230	.269	.292	6.803
	Mean temperature	73	65	66	70	74	69	70	70	74	70	66	74	75	71	66	67	68	70	76	77	81	84	84	87	81	77	74	76	73	78	82	73.9
	Wind movement	36	30	35	71	66	15	15	18	30	52	10	32	12	23	14	36	24	10	5	4	8	20	9	40	10	5	28	33	10	33	64	798
Lakeside (Osage Dam)	Evaporation																																
	Mean temperature	71	69	67	69	76	72	71	68	74	68	69	72	74	72	68	68	66	70	75	78	80	82	84	84	83	79	74	78	74	77	80	73.8
	Wind movement																																
St. Louis (Washington University)	Evaporation	.154	.126	.227	.180	.197	.248	.264	.217	.099	.122	.222	.190	.190	.168	.239	.228	.212	.151	.178	.162	.197	.225	.219	.243	.210	.130	.128	.030	.187	.181	.208	5.732
	Mean temperature	71	68	66	73	80	74	73	76	76	69	68	72	76	75	70	70	68	76	75	78	80	86	86	88	86	78	74	78	76	79	84	75.8
	Wind movement	33	28	29	19	27	28	25	13	17	31	28	14	17	5	55	24	18	19	20	4	9	11	18	10	14	11	10	11	19	13	17	592

Observations taken at 8:00 a. m. except at 7:30 a. m. at Lakeside. For Lakeside and St. Louis (Washington University) descriptions see April 1932 and August 1938 reports, respectively. * Included in next measurement.

(Continued from page 51)

On the same day at 5 p. m., (C. W. T.) a windstorm struck east of Rolla, resulting in damage to trees, roofs of small buildings, and crops. Property damage was not reported, but loss to grain and hay crops was estimated at $2,000. This storm also came from the northwest; the path was one-half mile wide and five miles long.

On the 25th at 1:45 p. m., (C. W. T.) a windstorm struck at Weingarten, resulting in property damage estimated at $500 and crop damage estimated at $200. This storm came from the west, the path being one-half mile wide and ten miles long. Roofs of some buildings were blown off and corn was damaged.

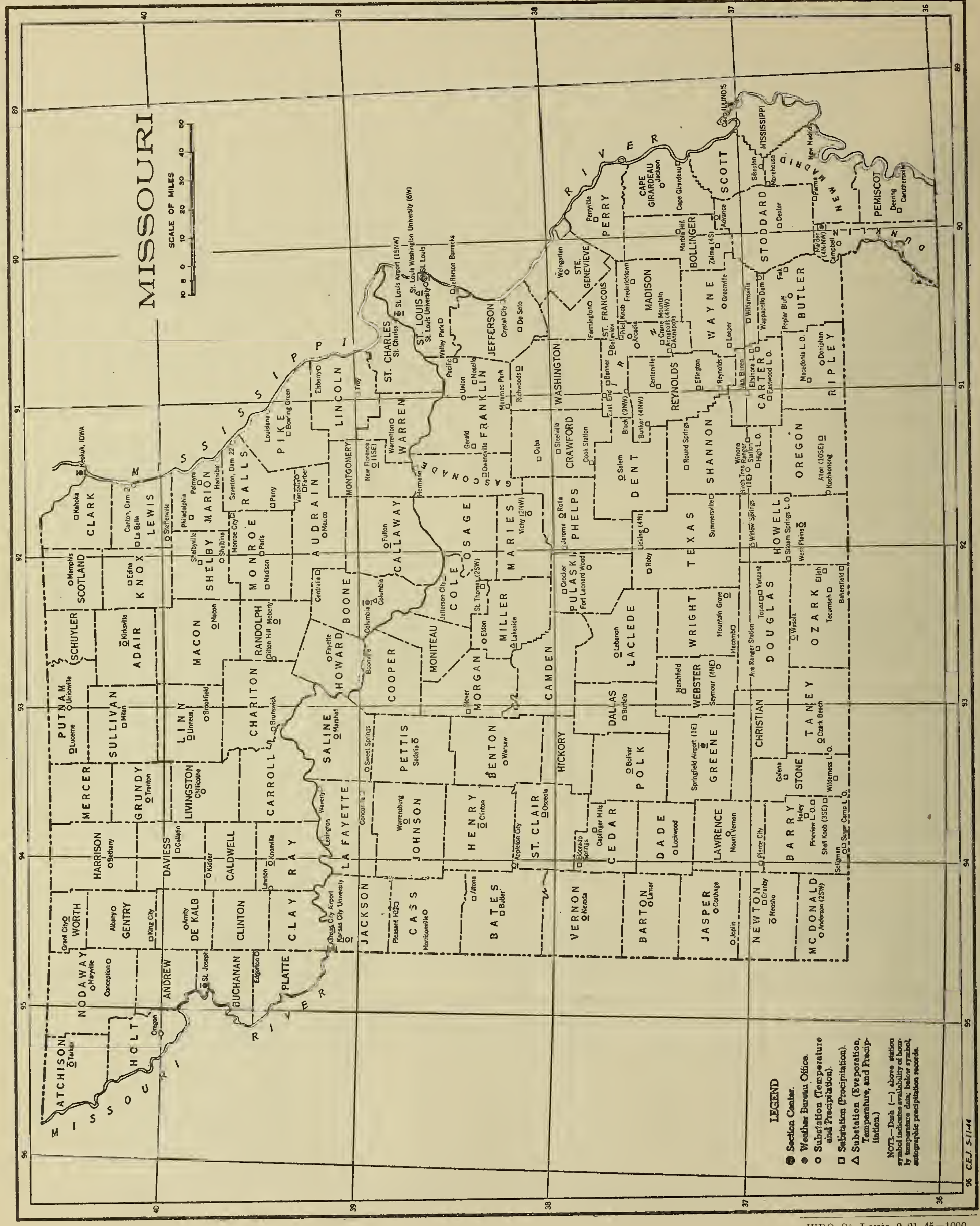
ERRATA

June 1945, page 41: Relative humidity at 6:30 a. m., at Springfield should be 91. Page 42: Total precipitation at Advance should be 15.93. Mean temperature and departure at Lexington should be 69.7 and —3.2, respectively. Date of maximum temperature at Eldon, Mountain Grove, Seligman, and Warsaw should be 27†, 27†, 27†, and 27, respectively. Date of minimum temperature at Lexington should be 4. Mean temperature and greatest 24-hour precipitation at Fort Leonard Wood should be 69.6 and 2.51, respectively. Page 43: Greatest 24-hour precipitation and date at West Plains should be 2.18 on 8–9th. Page 45: Precipitation on 30th at Advance should be .68; total should be 15.93. Page 47: Maximum temperature on 2d and 30th at Lexington should be 62 and 85, respectively; mean maximum should be 69.7. Minimum temperature at Lexington on 3d should be 52: mean minimum should be 61.2.

Daily Temperatures for July 1945

Stations		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Northern Division																																	
Brunswick /	Maximum	75	75	82	85	83	82	85	70	86	77	82	87	86	79	82	83	80	85	91	93	96	95	99	98	88	81	86	82	86	94	96	85.5
	Minimum	65	59	58	58	65	59	61	63	64	57	56	56	66	66	59	59	59	61	61	65	66	69	74	74	76	70	70	68	62	62	67	63.7
Chillicothe /	Maximum	77	81	84	89	83	84	87	79	87	77	81	89	84	81	83	83	82	86	91	93	98	98	96	102	83	80	88	80	87	94	98	86.6
	Minimum	64	55	56	57	64	57	58	62	63	54	54	59	63	63	58	58	62	59	57	66	67	72	74	76	75	*68*	69	65	60	61	68	62.7
Columbia	Maximum	75	75	79	82	83	82	85	69	85	75	81	86	82	79	81	81	76	85	90	93	95	95	98	99	90	90	77	86	88	93	95	84.8
	Minimum	60	56	57	62	64	59	61	63	64	58	53	66	69	65	58	61	62	63	67	67	71	76	72	77	76	70	69	66	61	69	73	65.0
Fayette	Maximum	80	75	79	82	80	82	84	78	86	76	80	85	85	87	80	79	78	84	89	91	95	95	98	97	90	82	80	85	80	92	94	84.8
	Minimum	60	55	53	61	63	57	61	58	61	55	51	63	63	68	55	55	60	57	62	62	66	66	70	75	73	68	70	67	60	62	70	62.2
Grant City	Maximum	74	77	82	87	79	82	84	82	84	75	81	87	86	79	79	79	78	82	87	91	95	94	93	98	97	80	89	87	82	91	95	85.0
	Minimum	59	52	57	61	62	55	63	62	65	50	52	60	62	*61*	56	61	65	58	62	67	74	72	73	74	68	68	64	63	58	67	72	62.7
Hannibal	Maximum	74	73	79	82	84	82	84	76	86	76	80	84	86	76	80	81	79	85	88	92	93	96	95	97	89	84	82	85	86	90	95	84.5
	Minimum	61	56	55	60	67	59	63	62	64	57	55	61	67	63	54	59	59	60	65	67	71	76	73	75	74	65	66	65	61	65	73	63.8
Kansas City Airport	Maximum	76	79	84	89	82	85	83	79	87	76	80	89	86	80	80	83	79	86	92	96	97	100	99	99	92	80	87	81	90	96	97	86.7
	Minimum	65	60	65	68	65	62	68	63	69	60	60	70	65	67	63	66	68	66	65	67	75	78	79	80	76	70	71	68	64	72	77	68.1
Kirksville	Maximum	78	78	79	83	82	82	84	80	86	83	80	85	85	80	82	79	81	85	88	92	92	99	93	99	96	83	87	82	87	88	96	85.6
	Minimum	62	56	55	62	62	56	61	60	62	54	53	60	65	62	54	59	61	56	60	66	71	76	70	73	75	66	69	65	60	66	73	62.9
Lawson	Maximum	76	79	82	88	81	84	83	78	86	76	81	88	86	80	81	82	78	86	92	94	95	99	98	97	86	83	80	79	87	94	96	85.6
	Minimum	61	55	56	64	60	54	63	62	64	53	54	62	60	62	55	58	64	60	62	66	72	74	75	74	73	68	67	65	56	66	73	63.2
Louisiana /	Maximum	85	74	80	84	84	81	83	85	86	76	80	85	87	82	79	79	78	84	86	89	95	96	96	98	89	87	78	88	87	91	96	85.4
	Minimum	52	53	50	54	54	54	60	54	59	60	49	52	67	61	59	51	55	53	55	58	60	65	65	67	74	60	65	65	60	60	62	58.5
Macon /	Maximum	74	75	80	80	82	82	84	74	87	77	80	85	88	80	83	81	80	86	90	94	95	99	95	97	85	82	89	85	90	93	95	85.4
	Minimum	63	55	54	57	63	58	60	59	65	53	52	56	65	62	53	55	56	55	58	61	65	73	69	70	76	67	68	65	60	64	69	61.5
Maryville	Maximum	76	75	83	87	84	82	84	80	83	79	79	87	84	80	77	79	81	83	87	92	96	95	92	99	94	79	86	83	80	91	95	84.9
	Minimum	60	53	59	65	61	55	62	63	66	52	55	58	62	62	59	62	65	63	65	67	73	71	73	74	69	66	65	63	60	67	72	63.5
Mexico /	Maximum	72	73	80	84	82	80	85	73	84	73	79	85	84	77	80	81	78	84	88	93	94	94	97	98	87	86	80	85	85	93	96	84.2
	Minimum	64	55	54	59	66	58	62	61	64	55	53	52	64	61	54	56	60	56	59	62	65	74	70	76	75	67	69	68	60	64	69	62.3
Moberly /	Maximum	73	73	79	80	82	81	74	74	86	75	78	84	85	75	78	79	78	83	86	91	94	94	95	97	85	81	84	84	87	92	95	83.3
	Minimum	63	56	55	63	64	56	61	59	60	54	55	65	67	62	54	57	61	56	60	65	71	75	68	76	75	68	70	65	60	67	73	63.3
Oregon	Maximum	78	81	85	89	81	85	86	84	85	76	82	90	85	81	81	83	85	85	90	93	97	97	96	101	94	82	90	80	85	95	96	87.0
	Minimum	59	51	61	59	61	57	64	63	66	51	55	63	61	62	58	62	65	64	64	70	75	73	75	74	70	62	65	62	57	69	73	63.6
St. Charles /	Maximum	76	78	80	86	90	85	87	81	88	78	82	85	85	81	83	81	79	86	91	93	96	98	99	99	91	90	*78*	91	89	100	97	87.2
	Minimum	64	56	54	61	70	62	59	66	66	61	55	62	66	68	57	59	56	61	61	64	68	70	72	76	76	66	66	70	63	66	67	64.1
St. Joseph	Maximum	77	79	84	89	80	83	84	82	85	76	80	88	84	81	80	82	80	85	90	93	96	98	98	100	85	82	89	80	86	95	96	86.0
	Minimum	61	56	62	68	62	60	67	66	64	56	57	66	65	63	62	64	67	64	65	70	76	76	77	78	71	68	66	64	60	70	76	66.0
Trenton	Maximum	77	81	83	90	89	90	86	85	86	84	82	89	85	84	85	81	82	86	91	90	96	99	98	100	94	78	89	81	87	94	97	87.7
	Minimum	62	53	55	66	64	55	60	61	52	50	51	61	64	63	56	58	56	57	61	65	71	77	75	70	71	70	68	64	59	60	65	61.9
Unionville /	Maximum	76	75	81	85	82	84	84	76	88	77	82	87	85	82	83	80	81	85	89	92	95	101	93	100	87	90	89	80	86	89	98	85.9
	Minimum	60	51	52	56	63	54	55	61	61	49	50	52	60	62	54	57	58	58	58	63	67	73	72	72	71	64	65	63	58	59	66	60.1
Warrenton	Maximum	76	77	78	85	87	85	87	83	86	86	81	85	88	82	80	80	77	84	88	92	95	96	98	97	93	90	85	88	88	92	94	86.5
	Minimum	62	51	50	56	67	57	56	58	64	56	48	59	63	61	51	52	53	53	54	59	62	72	68	70	75	62	66	66	58	62	73	60.1
Keokuk, Iowa	Maximum	72	72	79	82	84	83	84	75	86	75	81	85	86	77	83	82	78	85	89	93	93	99	97	100	90	89	86	82	88	89	97	85.2
	Minimum	65	60	56	64	68	60	66	65	64	55	56	63	68	65	56	59	63	60	64	65	74	78	72	76	74	66	68	66	62	67	76	65.2
Southwestern Division																																	
Clinton	Maximum	78	81	85	87	86	83	85	78	84	78	81	88	86	81	82	86	78	86	92	95	98	98	99	98	93	79	83	89	90	97	97	87.1
	Minimum	59	57	55	62	65	60	59	61	67	59	56	64	67	64	58	57	61	58	62	64	67	72	71	73	74	70	69	66	60	64	70	63.6
Eldon	Maximum	79	79	82	82	86	82	86	78	85	75	81	86	84	81	79	81	74	84	90	93	96	96	98	98	93	89	83	89	91	95	96	86.2
	Minimum	67	56	54	58	65	62	59	60	65	59	55	62	65	61	57	54	58	57	60	64	67	75	75	75	75	70	69	69	63	62	71	63.5
Harrisonville /	Maximum	79	80	82	87	88	83	83	75	84	78	78	86	84	80	79	82	78	84	89	93	95	99	98	97	92	80	86	88	88	94	95	85.9
	Minimum	61	56	57	62	64	57	60	61	60	53	58	62	64	66	59	59	63	61	63	65	60	70	72	73	74	68	68	63	59	61	61	62.6
Jefferson City /	Maximum	76	78	80	82	86	82	85	75	85	76	80	84	85	81	80	83	78	85	91	93	95	97	78	97	91	89	78	86	87	92	94	84.8
	Minimum	66	56	55	60	64	62	60	61	65	58	56	60	64	65	57	57	58	60	62	63	66	70	73	75	75	70	68	67	60	64	66	63.3
Joplin	Maximum	72	82	82	83	87	84	84	84	91	76	81	83	83	88	84	82	83	87	90	94	94	95	96	95	96	86	81	88	88	92	91	86.5
	Minimum	66	62	62	69	72	68	66	68	70	65	61	69	71	70	69	68	66	65	66	72	75	78	78	80	80	76	75	75	69	70	76	70.2
Lamar /	Maximum	74	84	81	84	87	80	85	84	86	74	80	83	80	87	80	82	79	85	88	91	93	95	94	95	95	83	85	87	86	84	93	85.3
	Minimum	65	58	58	59	64	65	59	59	64	65	58	58	65	64	63	61	62	62	61	61	65	68	71	71	73	73	72	69	61	61	66	63.9
Lebanon /	Maximum	71	77	80	82	86	79	85	84	82	72	80	83	84	82	81	83	74	86	92	93	94	94	94	97	95	83	79	85	86	93	93	84.8
	Minimum	64	53	51	53	61	61	57	57	64	61	56	58	63	60	55	53	53	53	54	58	63	64	71	71	72	67	67	68	59	60	66	60.4
Lexington /	Maximum	80	80	85	90	85	85	87	84	87	78	83	88	88	82	82	84	79	88	92	95	98	100	100	100	91	84	91	86	90	96	99	88.3
	Minimum	66	60	59	60	64	62	62	62	62	60	58	60	66	67	66	61	63	63	64	65	68	74	76	77	76	72	72	68	65	67	68	65.6
Marshall	Maximum	..	83	81	90	84	82	84	..	84	85	78	88	87	84	..	80	80	83	88	92	95	..	99	98	97	90	84	84	..	94	95	^{e}87.3
	Minimum	..	57	57	70	63	61	65	..	61	57	55	68	69	64	..	58	61	60	64	65	70	..	75	77	77	69	70	66	..	61	73	^{e}65.1
Mountain Grove	Maximum	81	80	79	81	88	88	81	84	85	84	77	83	83	88	81	79	76	84	91	94	96	96	98	99	99	96	87	87	87	92	93	87.0
	Minimum	64	54	52	58	65	62	55	64	66	62	51	61	68	62	58	58	58	57	59	69	71	69	72	74	75	68	70	70	60	67	67	63.4
Neosho	Maximum	89	82	83	84	88	88	86	85	91	91	86	84	86	88	88	84	84	88	91	95	95	95	95	95	97	96	88	87	88	92	92	89.1
	Minimum	65	53	54	59	68	65	58	62	69	65	54	62	63	62	65	61	59	57	55	62	64	66	67	70	72	71	71	69	58	63	71	63.2
Nevada	Maximum	85	84	85	86	89	85	88	86	86	82	83	88	82	88	85	85	82	88	92	96	97	98	98	98	99	92	85	88	91	95	95	89.1
	Minimum	67	57	57	63	70	64	58	62	66	63	59	66	68	62	61	60	64	63	61	63	68	69	71	73	73	72	71	68	60	65	71	65.0
Sedalia	Maximum	85	77	81	85	84	82	85	75	85	84	79	85	86	86	81	81	80	85	90	93	97	99	99	98	97	91	88	86	89	96	95	87.2
	Minimum	64	56	56	64	63	58	61	61	65	57	55	65	70	64	56	59	62	60	65	65	70	74	74	75	75	70	70	66	59	67	72	64.5
Springfield .. ½ mile E	Maximum	71	79	83	84	87	82	85	87	87	75	81	85	84	85	81	81	79	84	91	93	93	94	96	95	90	94	80	87	89	92	93	86.0
	Minimum	58	55	57	61	66	63	60	61	67	61	58	64	65	63	60	59	59	59	60	67	68	72	72	73	70	74	71	68	61	66	70	64.2
Warrensburg	Maximum	..	79	82	86	87	84	84	74	84	84	80	86	86	84	82	..	..	86	91	94	95	98	98	98	97	93	85	85	88	96	96	^{c}87.9
	Minimum	..	58	58	64	63	61	64	62	65	58	59	66	70	64	60	..	..	59	64	68	72	75	75	76	76	72	70	67	62	68	73	^{c}66.0
Southeastern Division																																	
Arcadia /	Maximum	85	83	80	85	90	85	87	87	84	77	80	80	88	87	84	84	81	90	94	95	97	97	103	101	103	92	80	90	90	96	97	88.8
	Minimum	64	55	51	51	53	60	52	52	60	65	49	51	57	57	55	49	48	49	57	58	59	59	69	70	69	65	64	69	61	60	61	58.0
Birch Tree .. ½ mile E	Maximum	81	80	80	81	88	86	84	85	86	82	80	84	85	87	..	81	78	86	93	94	97	98	100	98	98	94	85	89	88	91	93	^{a}87.7
	Minimum	65	55	56	61	60	58	53	59	62	55	50	56	61	61	..	66	52	58	60	63	63	68	..	73	74	67	74	72	62	64	65	^{b}61.8
Caruthersville /	Maximum	84	80	81	83	90	84	85	87	91	80	82	85	85	85	80	82	81	92	93	94	95	96	98	99	100	91	89	88	88	88	92	88.0
	Minimum	68	66	63	64	65	66	64	67	68	71	60	62	63	68	65	61	61	61	67	70	68	68	72	75	75	72	73	73	70	71	73	67.4
Crystal City	Maximum	79	82	80	85	90	88	89	87	87	88	81	86	90	85	84	85	83	88	91	93	97	99	101	101	97	*90*	*88*	*88*	*88*	*94*	*96*	89.0
	Minimum	64	54	51	60	70	61	54	62	64	61	49	57	60	66	51	50	49	61	57	58	59	68	69	70	71	63	69	69	62	61	69	60.9
Doniphan	Maximum	87	84	82	85	92	87	87	91	92	85	84	90	87	93	82	85	82	91	97	98	98	103	104	105	104	95	89	95	94	94	101	91.7
	Minimum	69	62	55	55	64	65	57	58	66	70	50	55	60	66	57	49	50	55	60	63	62	66	71	70	74	70	72	71	63	64	67	62.5
Farmington	Maximum	79	79	79	85	89	81	85	85	86	76	79	82	86	83	79	80	79	85	90	91	95	95	100	100	96	89	79	89	83	94	95	86.2
	Minimum	63	56	52	55	66	63	55	61	63	62	51	57	59	64	57	50	49	59	59	60	60	69	71	71	72	69	69	68	63	61	68	61.4
Jackson	Maximum	81	82	81	86	92	84	89	91	94	87	82	85	91	88	85	84	85	91	93	95	97	99	102	103	100	92	91	89	88	95	97	90.3
	Minimum	65	62	55	57	66	64	57	65	70	66	53	56	59	70	59	54	60	53	63	62	65	71	72	74	73	66	69	72	64	64	70	63.7
Poplar Bluff	Maximum	82	84	82	85	91	86	86	90	89	78	81	88	85	92	86	86	82	91	95	94	95	101	101	101	101	91	85	92	91	92	95	89.6
	Minimum	62	64	57	57	63	64	59	60	70	70	54	59	60	68	63	54	54	60	65	65	65	70	75	73	75	71	73	72	64	63	69	64.5
Rolla /	Maximum	73	79	78	83	87	81	85	81	83	74	79	83	85	82	78	80	75	85	89	92	94	96	96	97	95	92	75	86	86	91	93	84.9
	Minimum	65	56	55	60	65	62	59	63	62	60	58	62	65	62	68	55	56	60	64	70	67	72	72	74	83	71	68	68	63	64	71	64.5
St. Louis	Maximum	76	77	78	85	88	81	87	83	85	74	80	84	88	80	82	81	80	86	91	93	94	95	98	97	92	91	81	86	86	93	94	86.0
	Minimum	65	62	62	65	72	68	68	69	69	63	63	67	70	68	62	63	64	67	70	72	74	78	78	82	79	73	69	72	69	69	76	69.3
Salem	Maximum	78	80	82	84	89	85	88	89	84	83	81	84	86	84	83	84	76	88	94	95	97	97	100	98	98	92	87	87	90	94	95	88.1
	Minimum	66	53	49	58	64	61	54	61	67	62	53	59	61	61	56	50	52	57	56	62	62	70	71	73	70	70	70	69	60	62	72	61.6
Sikeston /	Maximum	84	83	82	87	92	85	87	90	92	78	82	90	89	89	82	83	84	92	96	96	99	100	103	104	104	92	92	90	90	92	97	90.5
	Minimum	67	64	58	60	66	65	60	63	69	70	54	58	63	71	59	55	55	60	66	67	68	72	75	74	78	78	78	68	65	68	70	65.9
Union ...... 1½ mi. SE	Maximum	77	79	80	85	87	85	87	88	86	86	85	85	89	82	80	81	79	85	89	92	96	95	99	96	95	90	88	87	88	93	94	87.4
	Minimum	64	54	51	55	66	61	55	61	63	60	51	54	61	64	55	52	50	58	57	59	60	69	68	71	69	65	67	70	63	61	70	60.8
West Plains	Maximum	76	81	81	82	91	85	85	89	86	74	80	85	86	90	82	81	78	88	94	95	98	99	100	102	100	95	82	92	91	97	96	88.4
	Minimum	65	57	54	56	61	61	55	62	66	55	51	57	69	64	57	50	50	52	58	63	64	67	70	73	72	67	72	66	62	63	66	61.5
Cairo, Ill.	Maximum	82	82	79	86	91	85	86	88	90	77	81	85	89	87	80	80	81	89	92	93	95	98	100	99	99	91	90	89	89	91	96	88.4
	Minimum	68	67	62	64	70	70	66	69	73	65	61	63	68	69	64	62	61	67	69	71	73	78	78	80	76	73	74	74	71	72	75	69.5

/ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs. ^{a}, ^{b}, ^{c}, etc., number f days missing, for example, ^{b} indicates two days missing. Italics data interpolated. § Partly interpolated.



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CLIMATOLOGICAL DATA

MISSOURI SECTION

H. F. WAHLGREN
ST. LOUIS, MO.

VOL. XLVIV AUGUST 1945 No. 8

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GENERAL SUMMARY

August was a decidedly dry month, over most of the State, and in the drier areas crops deteriorated and water supplies became short during the latter half of the month. It was the driest August, for the State as a whole, since 1937 and the tenth-driest month of its name in the past 58 years. This is in marked contrast to the same month a year ago which was decidedly wet, with an average of 6.09 inches, compared to only 2.08 inches for the current month.

The precipitation during the month was spotted and very irregularly distributed, ranging from a total of 8.27 inches at the station reporting the largest monthly amount to only 0.26 inch at the station receiving the least rain. Several stations had showers on as many as 6 to 9 days during the month, while at several others precipitation occurred on only 1 or 2 days. The bulk of the month's rainfall occurred during the first half, the latter half being quite dry over the whole State, and very dry the last week or ten days. The Southeastern Division received the most precipitation, with an average of 2.45 inches, or 1.32 inches less than the 58-year August normal. The Northern Division received the least rainfall, with an average of 1.85 inches, or 1.91 inches less than normal. The average for the Southwestern Division was 1.93 inches, or 2.00 inches less than normal for that section of the State. Heavy local showers of three to more than four inches in a 24-hour period, occurred on the 3d, 5-6th, and 14th.

Temperatures, as a rule, were moderate for August, with no unusual extremes reported. The extreme high of 103°, recorded at one station in each of the three divisions of the State, was the lowest August maximum since 1933, and the extreme low reading of 45°, at one station, was the highest minimum for August since 1941. Maximum temperatures of 100°, or higher, occurred on an average of only one day during the month, while the average number of days with maximum of 90°, or higher, was 16. Warm periods were 1st to 3d, 18th to 21st, and 27th to 31st, with cool periods from the 7th to 10th, and 22d to 26th. The 24th was generally the coolest day, except in the Southeastern Division where the 26th and 27th were the coolest days. The 1st, 2d, 22d, and 30th, were the warmest days, as a rule.

Rivers of the State were well within their banks and generally receding during the month. No flood stages were reached, except locally at Fisk, on the St. Francis River, during the first part of the month, and at Louisiana, on the Mississippi River, where flood stage or above occurred from the 12th to 16th and again from the 21st to 24th.

There were no severe storms during the month, but a few minor local wind and hail storms were reported.

Most crops made good growth and development during the first half of August, but during the latter half, and especially during the last ten days, hot dry weather proved unfavorable and all growing crops were damaged to some extent. However, in the Southeastern Division the dry weather was not so pronounced and crops in that section were, as a rule, in better condition than over the remainder of the State. Threshing of small grains was completed in the northern half of the State,

(Continued on page 59)

PRESSURE, WIND, HUMIDITY, AND SUNSHINE

Stations	Sea-level pressure, extremes-inches				Wind				Relative humidity ¶			Percentage of sunshine	Degree days
	Highest	Date	Lowest	Date	Average hourly velocity	Maximum velocity	Direction	Date	6:30 a. m.	12:30 p. m.	6:30 p. m.		
Columbia..	30.24*	8	29.80*	11	6.0	22	n.	11	85*	53*	56*	78	0
Kan. City Airp't*	30.26	8	29.73	13	9.5	27	sw.	31	78	50	46	75	0
St. Joseph........	30.29*	8	29.76*	13	7.3	19	nw.	14	82*	54*	54*	76	0
St. Louis......	30.22*	9	29.83*	11	9.4	27	sw.	31	78	52	58*	71	0
Springfield	30.23	8	29.84	17	8.8	29	ne.	18	89	56	57	82	0
Cairo, Ill........	30.21	30	29.88	17	6.8	32	ne.	2	88	59	..	85	0
....	.....	..	.....	..	....	..	......	..	..	..	..	..	....

* Data for Airport station. ¶ C. S. T.

COMPARATIVE DATA FOR AUGUST

Year	Temperature			Precipitation					Number of days			
	Average for State	Highest	Lowest	Average for State	Average, Northern Division	Average, Southwestern Division	Average, Southeastern Division	Snowfall, Average for State	Precip. .01 inch or more	Clear	Partly cloudy	Cloudy
1888............	74.0	110	45	7.03	5.95	7.84	7.30	0	11	..	..	..
1889............	73.5	101	52	1.69	1.65	2.11	1.31	0	14	..	..	..
1890............	73.3	106	47	5.13	4.25	7.21	3.93	0	9	..	..	..
1891............	73.2	102	38	5.29	5.96	5.14	4.78	0	8	..	..	..
1892............	74.3	102	44	2.65	2.24	2.63	3.08	0	6	17	8	6
1893............	72.8	100	40	1.99	2.55	1.89	1.53	0	4	18	10	3
1894............	77.0	111	39	1.64	1.00	1.59	2.33	0	5	14	16	1
1895............	75.3	104	46	4.02	5.45	3.51	3.09	0	8	15	11	5
1896............	76.6	108	41	3.13	3.32	3.25	2.82	0	6	17	10	4
1897............	74.1	108	41	2.37	2.48	2.23	2.89	0	6	19	9	3
1898............	75.8	103	44	3.13	2.93	2.88	3.57	0	5	17	10	4
1899............	78.8	107	49	3.13	4.19	2.76	2.45	0	7	18	10	3
1900............	80.3	105	52	3.55	2.99	4.79	2.87	0	6	19	9	3
1901............	78.4	109	47	2.05	1.12	2.74	2.29	0	5	19	9	3
1902............	75.0	103	47	6.06	5.66	6.79	5.74	0	10	14	11	6
1903............	74.5	102	43	5.00	6.54	5.01	3.44	0	10	16	11	4
1904............	73.7	100	43	5.40	5.61	5.84	4.76	0	8	16	10	5
1905............	76.4	99	48	4.68	4.19	5.90	3.94	0	8	19	7	5
1906............	76.6	101	40	4.70	3.99	5.10	5.01	0	11	14	10	7
1907............	77.3	109	47	3.89	3.92	3.90	3.85	0	9	17	8	6
1908............	76.4	102	46	3.46	3.63	3.61	3.14	0	8	17	9	5
1909............	79.5	110	40	0.60	0.31	0.67	0.81	0	2	24	6	1
1910............	74.7	103	40	2.92	2.63	3.56	2.57	0	6	15	9	7
1911............	75.4	109	41	4.33	2.81	4.97	5.21	0	7	15	8	8
1912............	76.2	104	41	4.04	4.77	3.42	3.93	0	9	17	8	6
1913............	82.8	110	41	1.09	1.24	0.67	1.37	0	3	22	7	2
1914............	78.0	106	49	4.25	3.73	4.53	4.48	0	9	15	9	7
1915............	69.8	98	37	8.19	4.99	7.57	12.02	0	12	12	9	10
1916............	79.2	107	41	4.09	5.39	2.55	4.33	0	7	19	7	5
1917............	73.3	104	38	4.69	3.13	5.04	5.89	0	9	16	8	7
1918............	81.8	111	45	3.57	3.22	2.91	4.59	0	8	17	9	5
1919............	75.7	106	44	4.33	4.41	4.47	4.12	0	8	17	9	5
1920............	73.1	102	43	4.69	3.56	5.94	4.56	0	9	15	8	8
1921............	76.8	109	48	5.39	5.16	6.42	4.60	0	9	14	10	7
1922............	77.5	107	46	2.44	2.68	1.67	2.97	0	6	18	8	5
1923............	77.3	108	42	3.81	5.47	1.87	4.08	0	8	16	9	6
1924............	77.2	106	48	4.11	3.66	4.50	4.18	0	7	19	8	4
1925............	76.5	107	45	3.34	5.31	2.60	2.10	0	6	19	8	4
1926............	77.5	106	50	5.65	4.03	6.39	6.53	0	10	15	9	7
1927............	71.1	97	39	5.09	4.19	7.04	4.04	0	9	14	10	7
1928............	76.4	99	45	5.48	4.37	6.75	5.33	0	9	15	10	6
1929............	76.0	105	43	2.58	1.84	2.21	3.69	0	6	18	9	4
1930............	78.5	114	47	1.99	2.39	1.87	1.70	0	6	16	10	5
1931............	74.9	106	44	4.97	4.03	5.66	5.21	0	9	15	9	7
1932............	77.2	106	46	5.70	7.82	3.86	5.42	0	9	18	9	4
1933............	75.4	103	48	3.82	4.32	3.80	3.33	0	9	13	10	8
1934............	80.6	115	41	4.01	3.36	2.83	5.83	0	9	14	11	6
1935............	77.7	110	45	2.20	1.60	2.73	2.26	0	6	17	9	5
1936............	84.6	116	43	0.84	0.90	0.91	0.72	0	4	20	8	3
1937............	80.5	105	51	2.05	2.50	2.00	1.64	0	5	17	11	3
1938............	81.1	108	53	2.62	4.62	1.78	1.47	0	6	20	8	3
1939............	75.4	106	45	4.80	6.30	3.76	4.34	0	9	15	11	5
1940............	75.6	107	45	5.78	5.47	7.21	4.67	0	12	10	12	9
1941............	79.2	106	49	3.15	2.37	3.53	3.56	0	8	15	11	5
1942............	75.1	106	41	4.24	3.98	3.68	5.05	0	9	14	10	7
1943............	79.8	110	44	2.46	3.00	1.92	2.47	0	6	16	11	4
1944............	75.9	107	41	6.09	6.84	8.02	3.40	0	10	12	11	8
1945............	76.8	103	45	2.08	1.85	1.93	2.45	0	5	18	9	4
....	....	...	..	....	....	....	....	.	..	..	..	..
....	....	...	..	....	....	....	....	.	..	..	..	..
....	....	...	..	....	....	....	....	.	..	..	..	..
Period..........	76.6	116	37	3.82	3.76	3.93	3.77	0	8	17	9	5

Climatological Data for August 1945

Stations	Counties	Elevation, feet	Temperature, in degrees Fahr.							Precipitation, in inches						Number of days				Prevailing direction of wind	Observers
			Length of record, years	Mean	Departure from the normal	Highest	Date	Lowest	Date	Length of record, years	Total	Departure from the normal	Greatest in 24 hours [4]	Date	Total snowfall, unmelted	With precip., .01 inch or more	Clear	Partly cloudy	Cloudy		
Northern Division																					
Albany	Gentry	930	4	75.7[d]	......	97[d]	30†	47[d]	24	16	1.12	−2.48	0.55	3	0	5	18[f]	5[f]	2[f]	s.	Curtis E. Grace
Bethany	Harrison	916	50	75.7	+ 0.7	96	1†	46	24	52	1.59	−2.23	1.58	3-4	0	3	20	7	4	sw.	B. A. McGregor
Brookfield	Linn	767	4	77.0	......	102	1†	50	24	4	1.60	......	1.20	3-4	0	3	22	3	6	s.	G. F. Breen
Brunswick	Chariton	652	64	76.6	+ 2.4	98	1†	53	24†	66	1.56	−2.38	1.16	3	0	3	20	3	8	ne.	O. K. Benecke
Canton, Lock & Dam 20	Lewis	488	7	75.0	......	99	1	50	24	15	1.09	−2.07	0.50	11	0	7	13	14	4	se.	Lockmaster
Chillicothe	Livingston	779	36	76.3	+ 0.8	99	1	52	24†	39	0.64	−3.32	0.29	4	0	4	27	1	3	se.	Wm. J. Olenhouse
Clifton Hill	Randolph	731	46	76.5	+ 0.5	99	2	53	24	36	2.88	−0.92	1.67	11	0	9	15	13	3	sw.	Dr. A J. Bradsher
Columbia	Boone	740	55	77.2	+ 0.9	99	5	54	24	55	2.66	−0.94	1.22	5	0	7	15	14	2	s.	U. S. Weather Bureau
Conception	Nodaway	1,108	56	77.0	+ 2.3	97	1†	54	24	61	1.95	−1.69	1.51	3-4	0	3	19	11	1	s.	Fr. Adelhelm Hess
Edgerton	Platte	856	25	77.2	+ 2.1	98	1†	48	24	42	1.81	−2.23	1.05	3	0	3	28	2	1	s.	Paul C. Handley
Elsberry	Lincoln	449	14	74.2	− 2.3	100	30†	46	21†	14	1.92	−1.34	1.04	5	0	8	13	17	1	sw.	....
Fayette	Howard	760	65	75.7	− 0.2	97	22†	52	24	62	2.43	−1.13	0.97	11	0	7	26	4	1	n.	Irvin E. Schnell
Fulton	Callaway	818	57	76.0	− 0.4	98	2	52	26	53	1.17	−2.48	0.48	18	0	6	21	6	4	sw.	Frank E. Hillgartner
Grant City	Worth	1,134	41	75.1	+ 0.2	96	30	53	23	53	2.22	−1.72	1.38	4	0	4	16	12	3	w.	J. Homer Korn
Hannibal	Marion	759	53	75.4	+ 0.4	97	1†	54	26	61	1.50	−1.84	0.70	5	0	5	17	11	3	sw.	Hannibal Water Dept.
Kansas City Airport	Jackson	741	56	79.7	+ 1.1	100	2	56	24	56	0.26	−3.28	0.17	10	0	3	18	9	4	sw.	U. S. Weather Bureau
Kansas City Univ	Jackson	908	7	79.0	......	99	17	52	24	7	0.27	......	0.17	10	0	2	26	3	2	s.	University of Kansas City
Kidder	Caldwell	1,020	53	76.0	+ 0.6	98	1	51	8	57	1.13	−2.83	0.49	3	0	5	17	11	3	s.	Mrs. Geraldine Terry
Kirksville	Adair	969	56	76.2	+ 2.2	99	1	53	24	63	1.02	−3.10	0.56	3	0	5	25	5	1	se.	Dr. Willis J. Bray
Lawson	Ray	1,070	7	77.0	......	99	1	50	24	7	1.15	......	0.91	3	0	2	16	13	2	se.	Elmer E. Lamb
Louisiana	Pike	469	51	74.0	− 0.9	99	30	47	24	64	1.53	−3.01	0.96	11	0	5	24	7	0	s.	Stark Bro's Nurseries
Macon	Macon	875	46	75.6	− 0.5	100	2	52	24	52	1.91	−1.90	0.74	17-18	0	8	15	6	10	ne.	John W. Atwell
Maryville	Nodaway	1,169	55	75.0	+ 1.2	95	31	53	24	51	2.83	−1.15	1.97	3	0	5	17	8	6	sw.	R. B. Montomery
Memphis	Scotland	787	6	75.5	......	103	1	49	25	15	0.78	−3.19	0.64	29	0	2	18	6	7	sw.	John W. Alexander
Mexico	Audrain	800	56	75.4	− 0.6	98	2†	51	24	67	2.31	−1.54	1.01	11	0	6	16	7	8	sw.	Darrence W. Stuart
Moberly‡ ....3½ mi. NE	Randolph	860	8	75.4	......	98	2	53	24	8	3.55	......	1.35	11†	0	5	27	2	2	sw.	F. W. Bell
New Florence. 1 mi SE	Montgomery	885	2	74.8	......	97	30	53	24	3	0.98	......	0.44	10-11	0	5	11	15	5	s.	U. S. Weather Bureau
Oregon	Holt	1,048	89	77.0	+ 1.8	99	1	54	8	89	1.08	−2.72	0.92	3	0	3	19	9	3	sw.	Miss Mina Wright
St. Charles	St. Charles	520	57	76.8	0.0	99	5†	56	24†	67	2.32	−1.92	0.75	3	0	7	19	12	0	s.	Martin L. Comann
St. Joseph	Buchanan	957	35	77.6	+ 1.1	98	1	55	24	73	1.21	−2.62	0.50	3	0	5	23	6	2	s.	U. S. Weather Bureau
Saverton, Lock No. 22	Ralls	472	7	76.4	......	98	1	56	24	7	1.75	......	1.04	5	0	7	22	8	1	s.	Lockmaster
Shelbina	Shelby	779	4	75.3	......	100	1	50[a]	24	52	1.76	−1.96	0.48	11	0	6	20	6	5	nw.	Guyman Hatcher
Steffenville	Lewis	650	47	75.7	− 0.8	100	1	49	24†	52	2.11	−1.93	0.60	11	0	7	19	10	2	s.	Mrs. Fannie V. Gross
Tarkio	Atchison	916	42	75.0	− 0.2	96	1	50	24	51	6.07	+2.17	4.70	3	0	7	9[a]	12[a]	9[a]	se.	C. A. A. Station
Trenton	Grundy	822	49	76.6	+ 1.4	100	1	50	24†	50	1.25	−2.63	0.82	3	0	6	21	9	1	s.	W. H. Estes
Unionville	Putnam	1,062	52	74.9	+ 0.1	100	1	52	24	52	1.57	−2.71	0.96	17	0	5	14	17	0	s.	Mrs. Dora A. Wilson
Vandalia	Audrain	766	1	75.6	......	99	30†	51	24	6	2.02	......	0.90	11	0	5	24	7	0	e.	Harold H. DeTienne
Warrenton	Warren	816	63	75.8	− 0.7	100	5	47	24	55	0.29	−3.38	0.15	5-6	0	4	22	9	0	se.	W. T. Zimmerman
Keokuk, Iowa	Lee, Ia.	574	73	76.0	+ 1.0	98	1†	56	23†	73	1.63	−1.57	1.03	10-11	0	6	13	12	6	sw.	U. S. Weather Bureau
Division means	**and extremes**	.....	..	**76.1**	**+ 0.6**	**103**	**1**	**46**	**24†**	..	**1.85**	**−1.91**	**4.70**	**3**	**0**	**5**	**19**	**9**	**3**	**s.**	
Southwestern Division																					
Anderson ...1½ mi SW	McDonald	1,000	41	74.2	− 3.5	96	4†	50	28	46	1.72	−2.40	1.33	6	0	2	19	8	4	sw.	Samuel G. Chamberlain
Appleton City	St. Clair	813	50	76.8	− 1.0	97	2†	55	24	53	1.78	−2.18	0.80	11	0	3	23	6	2	sw	Rolla Brown
Bolivar	Polk	1,071	42	78.4	+ 1.5	100	5	54	24	50	1.28	−2.58	1.10	6	0	3	22	5	4	sw.	Southwest Baptist College
Boonville	Cooper	650	7	76.2	......	97	2	56	24†	68	2.82	−1.73	1.10	5	0	4	17	9	5	s.	Boonville Water Dept.
Carthage	Jasper	962	11	77.8	......	99	4	51	24	21	2.96	......	2.58	6	0	4	14	14	3	sw.	Carthage W. and E. Plant
Clinton	Henry	786	52	78.2	+ 0.6	100	2†	55	24	58	2.93	−0.72	1.53	11	0	6	19	11	1	s.	U. S. Weather Bureau
Eldon	Miller	934	50	76.8	+ 0.4	100	5	53	24†	46	3.15	−0.51	2.00	6	0	5	18	11	2	sw	E. H. Shepherd
Fort Leonard Wood	Pulaski	1,107	4	76.5[d]	......	97[d]	5†	54[d]	24†	4	2.26	......	0.91	18	0	3	19[d]	3[d]	5[d]	s.	U. S. Army Medical Corps
Harrisonville	Cass	904	67	77.6	+ 1.7	99	2†	57	23†	70	0.36	−3.82	0.22	6	0	2	11	11	9	se.	John H. Patterson
Jefferson City	Cole	557	55	76.7	0.0	98	30†	55	24†	63	1.56	−2.27	0.65	3-4	0	8	18	9	4	s.	Mrs. Frank Kliegel
Joplin	Jasper	1,008	23	79.6	+ 2.3	96	3†	62	23†	40	3.44	−0.53	2.98	6	0	6	19	4	8	s.	Empire Dist. Electric Co.
Lakeside	Miller	595	14	75.3	− 3.8	99	5†	50	24	14	3.22	+0.05	2.40	5-6	0	7	21	7	3	sw.	W. S. Frame
Lamar	Barton	980	57	76.0	− 1.7	97	4†	52	25	64	3.25	−1.04	2.99	6	0	4	24	5	2	sw.	Mrs. Marie Mann
Lebanon	Laclede	1,265	57	74.9	− 1.2	98	5	51	24	58	2.67	−1.82	1.64	18-19	0	7	18	7	6	sw	Mrs. Rosa E. Montelius
Lexington	Lafayette	688	60	79.2	+ 3.0	101	2	55	24	61	1.10	−2.42	0.60	3	0	3	19	10	2	......	Tilton Davis
Lockwood	Dade	1,078	39	78.6	+ 1.4	100	5	53	24	49	2.81	−1.89	2.31	5-6	0	4	18	11	2	sw.	Hubert A. Nieman
Marshall	Saline	779	58	78.0[a]	+ 2.0	102[a]	31	53[a]	8†	55	1.52	−2.38	0.68	3-4	0	5	19	9	3	sc	Thomas A. Reid
Mountain Grove	Wright	1,463	44	77.2	+ 1.7	98	5	52	24	48	1.25	−3.09	0.72	6	0	8	15	14	2	se.	Mo. Fruit Exp. Station
Mount Vernon	Lawrence	1,174	33	76.4	− 0.3	98	30	51	24†	45	0.48	−4.00	0.35	14	0	3	11[a]	19[a]	0[a]	s.	James C. Williamson
Neosho	Newton	1,011	58	77.2	+ 0.1	95	3†	51	24	62	1.62	−2.75	1.26	6	0	4	16	12	3	sw.	U. S Fisheries Station
Nevada	Vernon	862	52	78.8	+ 1.7	101	4	51	24	53	4.50	+0.73	4.29	5-6	0	2	24	2	5	s.	Henry Kraft
Ozark Beach	Taney	700	5	77.8	......	101	3	53	28†	20	1.39	−2.94	0.59	6	0	7	10	19	2	se.	Empire District Elec. Co.
Sedalia	Pettis	910	32	78.2	+ 1.7	100	5	51	24	34	0.61	−4.57	0.31	5-6	0	5	24	4	3	sw.	Dr. J. E. Cannaday
Seligman	Barry	1,542	44	76.8	+ 0.6	96	30	55	21	42	0.91	−3.09	0.56	6	0	5	21[a]	6[a]	3[a]	sw.	Floyd E. Fawver
Seymour. .3½ miles NE	Webster	1,642	39	74.4	− 0.6	95	5†	50	24	39	1.95	−2.29	0.76	17-18	0	7	25	3	3	s.	A. L. Hailey
Springfield. . ½ mile E	Greene	1,301	57	76.4	+ 1.4	97	4	53	24	57	1.81	−2.28	1.05	6	0	5	13	10	8	s.	U. S. Weather Bureau
Sweet Springs	Saline	700	4	77.8	.....	103	5	48	24	4	1.15	......	0.83	18	0	7	17	13	1	s.	H F. Nelson
Warrensburg	Johnson	878	58	79.0	+ 1.9	101	5	56	24	65	1.51	−2.46	1.07	5-6	0	4	23	6	2	sw.	Central Teachers College
Warsaw	Benton	687	44	78.5	+ 0.9	101	30	52	24	50	1.13	−3.49	0.72	5-6	0	5	17	12	2	s.	Dora B. Johnson
Wasola	Ozark	1,294	4	77.7	......	98	3†	56	28	5	1.75	......	0.73	22	0	5	20	11	0	s.	A. W. Pinckney
Division means	**and extremes**	.....	..	**77.2**	**+ 0.4**	**103**	**5**	**48**	**24**	..	**1.93**	**−2.00**	**4.29**	**5-6**	**0**	**5**	**19**	**9**	**3**	**sw.**	
Southeastern Division																					
Advance.... ¼ mile W	Stoddard	354	8	76.7	......	100	2	50	27	8	3.53	......	1.12	22-23	0	7	9	14	8	s.	U. S. Weather Bureau
Arcadia	Iron	926	64	76.0	+ 1.7	99	2†	49	10†	67	0.81	−3.56	0.40	6	0	3	14	8	9	e.	Arcadia College
Birch Tree... ½ mile E	Shannon	1,000	50	76.6[c]	+ 0.5	98[c]	5†	52[c]	28	51	3.32	−1.44	2.22	17-18	0	5	18[c]	7[c]	3[c]	sw.	R. C. Moger
Black.......9 miles NW	Iron	1,000	52	74.0	− 0.5	98	5	45	27	52	0.78	−3.46	0.63	22	0	4	16	11	4	w.	Claude Volner
Campbell	Dunklin	314	19	....	......	..	..	..	..	19	2.46	−3.52	1.43	14	0	4	..	..	..	......	Mrs Ruth Christian
Caruthersville	Pemiscot	265	49	77.4	− 2.9	96	2	58	27	53	3.05	−0.64	1.49	6-7	0	5	22	4	5	e.	Victor T. Malloure
Crystal City	Jefferson	420	11	76.9	− 1.3	100	30	48	27	11	3.42	+0.99	1.85	14	0	7	22	1	8	se.	Richard K. Ragland
Doniphan	Ripley	344	41	79.4	+ 1.8	103	2†	50	27	41	2.84	−1.40	1.95	23	0	2	27	2	2	se.	Boyce Lackey
Farmington	St. Francois	896	34	76.0	+ 0.6	101	30	49	26	48	1.52	−2.78	0.95	14	0	4	6	11	14	n.	F. M. Karsch
Greenville	Wayne	460	36	77.3	+ 0.6	101	2	48	27	38	2.95	−1.33	1.59	14	0	5	19	9	3	e.	Beuford Shoemake
Jackson	Cape Girardeau	428	54	77.0	+ 0.9	101	2	51	26†	55	6.80	+2.72	3.02	23	0	8	12	5	14	n.	John G. Putz
Koshkonong	Oregon	958	44	76.3	− 1.6	98	3†	51	27	45	2.16	−2.00	1.79	21-22	0	4	24	5	2	se.	Mrs Genevieve T. Smith
Licking...... 4 miles N	Texas	1,170	8	75.9	......	97	5†	48	24	8	0.89	−1.45	0.37	4	0	3	19	5	7	n.	U. S. Forestry Service
Malden....4 miles NNW	Dunklin	292	2	79.0	......	101	1	55	27	2	3.12	......	1.49	14	0	5	12	11	8	ne.	U.S. Weather Bureau

Continued on next page

Climatological Data for August 1945—Continued from preceding page

Stations	Counties	Elevation, feet	Temperature, in degrees, Fahr.							Precipitation, in inches						Number of days				Prevailing direction of wind	Observers
			Length of record, years	Mean	Departure from the normal	Highest	Date	Lowest	Date	Length of record, years	Total	Departure from the normal	Greatest in 24 hours [4]	Date	Total snowfall, unmelted	With precip., .01 inch or more	Clear	Partly cloudy	Cloudy		
Southeastern Division—Concluded																					
Marble Hill	Bollinger	532	50	77.0	0.0	102	2	49	26†	52	5.06	+0.94	1.64	22	0	9	16	12	3	s.	R. A. DeWitt
Poplar Bluff	Butler	339	40	78.0	0.0	99	2	52	27	41	3.20	−1.37	2.00	22–23	0	4	24	3	4	s.	Joe Roehm
Rolla	Phelps	1,202	45	77.2	+ 1.0	97	30†	58	25	61	0.66	−3.78	0.45	6	0	6	5	25	1	sw.	Rolla School of Mines
St. Louis:																					
City Office		465	108	78.0	+ 0.5	97	30	59	23	108	4.38	+1.39	2.60	11–12	0	8	13	12	6	sw.	**Section Center**
St. Louis Airport	St. Louis	556	8	76.9	+ 0.5	98	5†	55	26	14	3.58	+0.56	1.54	11	0	7	10	13	8	se.	U. S. Weather Bureau
St. Louis University	St. Louis City	578	33	77.9	+ 0.1	97	2†	58	23	33	4.14	+0.20	2.59	11–12	0	9	20	8	3	se.	St. Louis University
Salem	Dent	1,206	41	77.4	+ 1.5	100	30†	50	24	44	0.34	−4.23	0.20	6	0	6	16	13	2	s.	E. E. Martin
Sikeston	Scott	318	38	75.7	− 1.9	101	3	*52*	23	48	3.43	−0.37	2.13	12	0	7	10	20	1	se.	Mrs. Lucy W. Humphreys
Union 1½ mi. SE	Franklin	520	7	76.2	......	101	30†	48	26†	28	1.07	−3.63	0.70	11	0	4	20	7	4	e.	Cornelius Sieges
Vichy 2 mi. NW	Maries	1,125	9	76.6	......	97	30	55	23	10	1.24	......	0.60	5–6	0	8	20	3	8	sw.	Civil Aeronautics Adm.
Wappapello Dam	Butler	475	6	78.4	......	100	2	56	26†	6	3.49	......	1.59	14	0	5	23	6	2	sw.	U. S. Engineer Office
Weingarten	St. Genevieve	833	4	77.8	......	102	30	52	26	5	1.43	......	0.82	14	0	2	15	12	4	s.	William J. Miller
West Plains	Howell	1,005	8	76.6	......	101	5	51	27†	8	1.81	......	1.11	14	0	5	12	13	6	w.	U. S. Weather Bureau
Willow Springs 500 ft E	Howell	1,238	4	75.8	......	98	5	50	27†	38	2.82	−1.26	1.30	6	0	7	19	10	2	s.	Allen Frazee
Cairo, Ill.	Alexander, Ill.	314	73	78.5	− 0.3	98	2	57	26	74	3.28	+0.26	1.36	22–23	0	9	9	15	7	ne.	U. S. Weather Bureau
Division means	**and extremes**	.....	..	77.0	+ 0.1	103	2†	45	27	..	2.45	−1.32	3.43	14	0	6	16	10	5	s.	
State means	**and extremes**	.....	..	76.8	+ 0.2	103	1†	45	27	..	2.08	−1.74	4.70	3	0	5	18	9	4	s.	

The departures from normal temperature are computed from the averages of the entire period for stations having 10 or more years of record. Departures of precipitation for stations with 15 years or more of record are computed from a normal or "standard mean", adjusted to a uniform 35-year period: for stations of 10 to 14 years the means for the period of record are used. The normal may be found by adding the departures when minus (−) or subtracting when plus (+). Figures and letters following stations indicate distance in miles and direction of station from the city Post Office, unless otherwise indicated. T. Trace or 0.005 inch or less. ^{a}, ^{b}, ^{c}, etc., number of days missing: for example, ^{b}, indicates two days missing. Italics data interpolated. § Partly interpolated. † And other dates. ‡ Received too late to be included in means and summaries. [4] Best available used for stations not equipped with recorders. Post office address of: Altona is Adrian; Crane Mountain is Arcadia; East End is Goodland; Eastwood Lookout is Van Buren; Ellsinore Lookout is Mill Spring; Hailey is Cassville; High Lookout is Birch Tree; Macedonia Lookout is Doniphan; Perry is Center; Pilot Knob is Ironton; Pineview Lookout is Duke; Sugar Camp Lookout is Cassville; Wilderness Lookout is Lampe.

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and harvesting of a fine crop of good quality lespedeza hay progressed throughout most of month. Corn grew well and the early planted was far enough advanced to be safe from frost, but the bulk of the crop was quite late and an unusually lata occurrence of killing frost will be necessary for much of the crop to escape damage. Pastures held up well and were above average condition for August, but deteriorated rapidly the latter part of the month, especially in the drier areas. Cotton made good growth and was fruiting heavily the latter half of the month, with prospects of an excellent crop although it was late, as a rule. Soybeans also made good advance until the last ten days, when they were in need of more rain generally. Much of the soybean crop was also late and probably would be cut for hay as time was getting short for it to make a good crop of beans. Some fall plowing was accomplished the first half of August, but as a rule the ground was too dry and hard the latter half for this work. A large crop of fine quality late peaches was picked and marketed during the month. All gardens, truck, field crops and pastures were in need of a general soaking rain at the close of August.—M. R. W.

TEMPERATURE

The monthly mean for the State, 97 stations reporting, was 76.8°, or 0.2° warmer than the 58-year August average. The highest monthly mean was 79.7° at Kansas City Airport, and the lowest was 74.0° at Louisiana and near Black. The highest reported was 103° at Memphis on the 1st, Doniphan on the 2d and 13th, and at Sweet Springs on the 5th; the lowest was 45° near Black, on the 27th.

PRECIPITATION

The average for the State, 213 stations reporting, was 2.08 inches, or 1.74 inches less than the 58-year August average. The greatest monthly amount was 8.27 inches at Cape Girardeau, and the least was 0.26 inch at Kansas City Airport. The greatest amount reported in 24 hours was 4.70 inches, at Tarkio, on the 3d. The average number of days with 0.01 inch, or more, was 5.

MISCELLANEOUS PHENOMENA

Aurora.—27th, 28th.

Floods.—In Mississippi River, at Louisiana, on 12th, 16th, 21st to 24th. In St. Francis River, at Fisk, continued from July to sometime prior to August 18th (exact date unknown).

Fogs.—Heavy, 5th, 6th, 11th, 12th, 13th, 17th, 21st.

Hail.—Light, on 11th at Fayette; 17th at Browning, Chillicothe, Swan Tower Lookout, Birch Tree, High Lookout; 18th at St. Charles, Kirkwood; 29th at Tarkio. Moderate, on 11th at Clifton Hill. Heavy, 17th at Cuba, 22d south and southwest of Maryville. (See special hailstorm notes).

Windstorms.—5th, 11th, 17th, 22d. (See special windstorm notes).

HAILSTORMS

Moderate hail fell at Clifton Hill, and vicinity, about noon (C. W. T.) on the 11th, resulting in crop damage estimated at $500. The storm was accompanied by a windstorm that did damage estimated at $600 to $700. The storm came from the northeast and covered a path three miles wide and twelve to fourteen miles long. Largest stones were the size of hen eggs.

At about 6:30 p. m., (C. W. T.) of the 20th, heavy hail fell at Cuba, causing crop damage estimated at $1,000, and some damage to roofs. This storm came from the north and its path was one mile wide and three miles long. Stones ranged up to five-eighths inch in diameter. Where the stones piled up they remained on the ground for 24 hours.

During the late afternoon of the 22d, heavy hail fell over a path six miles wide and eight miles long, extending from northeast of Graham nearly to Maryville, in Nodaway County. The storm came from the southwest, with heavy hail in center of the path over an area about one mile wide, and very light hail on the edges of the path. Stones ranged up to three-fourths inch in diameter. Severe crop damage occurred and was estimated at $100,000. The hail was accompanied by wind, which caused additional minor damage.

WINDSTORMS

On the 5th at 6:45 p. m., (C. W. T.) strong winds at Butler did some damage to roofs, but the amount thereof was not reported. This windstorm came from the southwest; length and

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Daily Precipitation for August 1945

Stations	Drainage basins	Day of month																															Total
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Northern Division																																	
Albany	Grand			.55	.26	.01					.23			T.									.07										1.12
Amity	do			.83		T.				.02	.16			.04								T.	T.										1.05
Auxvasse	Missouri			.41	.09		.74				T.		.24						.14			.62											2.24
Bethany	Grand			.89	.69						.01											T.	T.							T.			1.59
Bowling Green[2]	Mississippi						.57						.59										.84										2.00
Brookfield[2]	Grand				1.20										.05				.35														1.60
Browning.....3 mi. NE	do			.30	.47	T.					.02		.03	.01	T.		.01		.42														1.26
Brunswick[2]	do				1.16							T.			.15				.25														1.56
Canton, Lock No. 20[2]	Mississippi				.03	.04	.43					.06	.50		.01				.02														1.09
Centralia[2]	do				.52	.86	.49					.04	.44																				2.35
Chillicothe[2] (A)	Grand			.12	.29										.02				.21														0.64
Chillicothe[2] (B)	do			T.	.29							.05			.05				.30														0.69
Clifton Hill	Chariton			.34	.31	.25	.02				.05	1.67		.03			.03		.18														2.88
Columbia[1, 5]	Missouri			.20	.15	1.22	T.				T.	1.00			T.			.05	.01			.03	T.										2.66
Columbia...9 mi. WNW	do			.09	.04		1.57				T.		.32						.10			T.								T.			2.12
Conception	do			1.33	.18	T.					.44																						1.95
Edgerton	do			1.05							.23			.53																			1.81
Edina[2]	Mississippi					.28							.15	.20																			0.63
Elsberry S. C. S.[2]	do			.59			1.04					.03	.13	T.	.07			.02		.02			.02	T									1.92
Fayette	Missouri			.34	T.	.08	.60				.03	*	.97						.41														2.43
Fulton[2]	do				.22	.10	.33					.01		T.	.03					.48			T.										1.17
Gallatin[2]	Grand			.10	.26							.02			.07																		0.45
Grant City	do			.47	1.38	.04				T.	.33																						2.22
Hannibal[1] (A)	Mississippi		.13	.12	T.	.70					.05	.50																					1.50
Hannibal[2] (B)	do			.10	.13		.77					T.	.40																				1.40
Hermann[2]	Missouri						.23						.12																				0.35
Kahoka[2]	Mississippi						T.						1.80		.15				T.														1.95
Kansas City Airport[1, 5]	Missouri			.01						T.	.17	T.		.08																			0.26
Kansas City University	do			.10							.17			T.					T.														0.27
Kidder[2]	Grand			T	.49						.01	.07			.17				.39														1.13
King City	Missouri			.79																													0.79
Kirksville	Mississippi			.56	.22	T.					.02	.02	T.		.20	T.			T.														1.02
Knoxville[3]	Missouri			.98							.11			.46	T.			.17															1.72
LaBelle[2]	Mississippi						.56					T.	1.30																				1.86
Lawson	Missouri			.91						T.	T.			.24																			1.15
Linneus[2]	Grand																																....
Louisiana[2] (A)	Mississippi				.04		.43					.08	.96										.02										1.53
Louisiana[2] (B)	do			.05	.15		.58					.07	.95										.05										1.85
Lucerne[2]	Grand				.85							.16							.29											.10			1.40
Macon[2]	Chariton			.05	.22	.40						.05	.16		.29				.10	.64													1.91
Madison[2]	Mississippi				1.05		.95						1.01							.20													3.21
Martinsburg[2]	Missouri				.21	.08	.46					.09	.37				T.			.03			T.										1.24
Maryville	do			1.97		.04					.57			.03								T.								.22			2.83
Memphis[2]	Mississippi					.14							T.		T.																.64		0.78
Mexico[2]	do				.26	.71	.22					.04	1.01							.07													2.31
Milan[2]	Grand				2.42														1.02														3.44
Moberly[2]....3½ mi. NE	Mississippi				.53	.28	T.						1.35					.04		1.35													3.55
Monroe City	do		.24	1.98	.23	.84					T.	1.14																					4.43
New Florence[3, 5] 1 mi SE	Missouri			.05	T.	.25					.01	.43			T.				.24			T.	T.										0.98
Oregon	do			.92		.03				T.				T.																	.13		1.08
Palmyra	Mississippi			1.05			.31				.02		1.00		.35																		2.73
Paris[2]	do			.77	.39	.10	2.68					.05	.14							05													4.18
Perry........1 mile E	do			.67			2.35					.05	1.35						.05				.60										5.07
Philadelphia[2]	do																																....
St. Charles[2] (A)	Missouri			.75								.04	.56		.08					.67			.21	.01									2.32
St. Charles[2] (B)	do			.89			.56					.05	.60		.05					.02			.23	.03									2.43
St. Joseph[1, 5]	do			.50		.01				T.	.35			.11								T.	T.							T.		.24	1.21
Saverton, Lock No. 22[2]	Mississippi			.04	.10	.01	1.04					.07	.41		T.								.08										1.75
Shelbina	do			.23	.31		.44					.48			.08				.22														1.76
Shelbyville[2]	do				.22	.32	.55					.15	.45																				1.69
Steffenville	do			.51	.19	.51	.05				.04	.60			.21																		2.11
Tarkio[3]	Missouri			4.70	.04	.08				.05	.66			.04		T.	T.													.50			6.07
Trenton[2]	Grand		T	.82	.33	T.					.02	.04			02		.02	T					T.										1.25
Troy[2]	Mississippi			.25			.40					.02	.47		T.								1.80										2.94
Unionville[2]	Chariton		T.		.35	.16						.06							.96												.04		1.57
Vandalia	Mississippi			.40	.04		.64				.04		.90																				2.02
Warrenton	do			T.	T.		.15				.02	T.	.10		T.				T.				.02										0.29
Keokuk, Iowa[1]	do			.12	.03	.38					.07	1.01			.02							T.								T.			1.63
Southwestern Divis																																	
Altona[2]	Osage						.85					T.	.80										.25										1.90
Anderson[2]...1½ mi. SW	Neosho							1.33				T.	T.			T.		T.					.39										1.72
Appleton City	Osage						.78				.20		.80									T.											1.78
Ava Ranger Station[2]	White						.85	.20								.30			.15	1.20				.25									2.95
Bolivar	Osage						1.10			T.	.02				.16								T.										1.28
Boonville[2] (A)	Missouri				.45		1.10						.93						.34														2.82
Boonville[2] (B)	do				.44		1.04					T.	.97						.28														2.73
Bradleyville[2]	White						*	.85											1.50	.14													2.49
Buffalo[2]	Osage						.90	.51								.22				.36													1.99
Butler[2]	do						1.33	.08		T.		.46	.10																				1.97
Caplinger Mills[2]	do						.83	.34				.10											.19										1.46
Carthage	Neosho						2.58				.11				.12								.15										2.96
Cassville[2]	White							.91								.10		1.28						.05									2.34
Clinton[3]	Osage					.64	.38				.17	1.53			.03							.18											2.93
Concordia	Missouri			.06			.33				*	.06										T.											0.45
Crocker	Osage				.55		.95			T.									.55			T.											2.05
Eldon	Missouri				.07		2.00								.15				.92				.01										3.15
Eldorado Springs	Osage						1.20				.11											.12											1.43
Elijah[2]	White															.85			.80	.07			.60	.15									2.47
Fort Leonard Wood[2]	Gasconade				.45		.90												T.	.91			T.										2.26
Galena[2]	White						.24	.54										.71		.34													1.83
Granby[2]	do						.55	1.00								.15		.16		.40													2.26
Hailey	do						.77								.09		3.55		T.				.12										4.53
Harrisonville[2]	Osage						.22					.14																					0.36
Jefferson City[2] (A)	Missouri				.45	.20	.15						.03		.03				.07	.47			.16										1.56
Jefferson City[2] (B)	do				.52	.54	.06						.08		.01	T.			.06	.15													1.42
Joplin[1]	Neosho						2.98				.05				.05		.05		.07			.24											3.44
Lakeside[2, 5]	Osage				.35		2.37	.03				.01			T.	.06			.10	.30													3.22
Lamar[2]	Neosho						2.56	.43				.12						.14															3.25

Continued on next page

Daily Precipitation for August 1945—Continued from preceding page

Stations	Drainage-basins	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Total
Southwestern Division—	*Concluded*																																
Lebanon[2]	Osage						.43	.18				.03				.35			.58	1.06				.04									2.67
Lexington[2]	Missouri				.60							.10							.40														1.10
Lockwood	Osage						2.31				.09				.39		T.						.02										2.81
Mansfield[2]	White						.57	.30		.03		.04				.20			.10						.05								1.29
Marshall.	Missouri			.58	.10	.22					.02								.60														1.52
Marshfield[2]	White						.37	.23		T.						.36			.02	1.27				T.									2.25
Mountain Grove[2]	Gasconade						.48	.24				.01				.02			.03	.05			.18	.24									1.25
Mount Vernon[2]	Neosho						*T.*					.06				.35		.07															0.48
Neosho	do						1.26				T.				.24		.09		.03														1.62
Nevada	Osage						4.29				.21											T.											4.50
Osceola[2]	do						.57	.14				.09	.11			.18																	1.09
Ozark[2]	White						1.70	.31								.79				.20													3.00
Ozark Beach[2]	do						.46	.13								.43		.17		.05			.08	.07									1.39
Pierce City[2]	Neosho						*	1.52								.06		.33						T									1.91
Pineview Lookout	White																																....
Pleasant Hill[2]	Osage				T.		.18				T.	.17								T.													0.35
Roby	Gasconade				1.72		.38				T.							.09	.06				.09										2.34
St. Thomas[2]. 2¼ mi SW	Osage				*.40*		*.25*									*.05*		.24	.14	1.80													§2.88
Saunders Lookout[2]	White																																....
Sedalia	Missouri		*T.*				.31				.01		.04						.20				.05										0.61
Seligman[2]	Neosho							.56				.02				.07							.18	.08									0.91
Seymour[2] ....3½ mi. NE	White						.42	.27								.41			.36	.40			.03	.06									1.95
Shell Knob[2] ...3 mi. SE	do						T.	.29								.23		.33					T.	.32									1.17
Siloam Sprgs Lookout[2]	do							.11								.29			.71	T.			T.	.40									1.51
Springfield[1]; [5] ...½ mi. E	do						1.05				.01				.16		.01		.58			T.	T.										1.81
Stover[2]	Missouri				.93		1.67						.25																				2.85
Swan Tower Lookout[2]	White						.85	.24								.66			.59	.15			.40	.05									2.94
Sweet Springs	Missouri			.08	.03	.02	.03				.05		.11						.83														1.15
Tecumseh[2] ..¼ mi. W	White																																....
Topaz[2]	do						.41	.15								T.			.32	.07			.49										1.44
Vanzant[2] ....3¾ mi. SE	do							.11					.20	T.						.17	.07	.12											0.67
Warrensburg	Missouri			T.			1.07				.10											.14	.20										1.51
Warsaw[2] (A)	Osage						.72	.05		T.		.10		.20									.06										1.13
Warsaw[2] (B)	do						.41	.17				.12	.08										*.05*										§0.83
Wasola[2]	White							.36								.13		T.		.53			.57	.16									1.75
Waverly[2]	Missouri				.20										.35				.35														0.90
Wilderness Lookout[2]	White							.25								.27		.62															1.14
Southeastern Division																																	
Advance[3] .....¼ mile W	St. Francis						.07				.70	.14	T.		.90			.14				T.	.71	.87									3.53
Alton(1) ....10 miles SE	Black															.11		.67					.74	.33									1.85
Alton(2)[2] ...7 miles NE	do															.20			.58				1.00	.60									2.38
Annapolis[2] .....7 mi. W	do						T.					.01				3.43							.38	.25									4.07
Arcadia[2]	St. Francis						.40									.19							T.	.22									0.81
Belleview[2]	Meramec						1.05	T.			T.		1.08			.69								.58									3.40
Bernie[2]	St. Francis															1.07			.11				1.15	.31	.11								2.75
Birch Tree[2] ...½ mile E	Black				T.		T.	T.				T.		T.		.07			2.20	.02			.90	.13									3.32
Black...... 9 miles NW	do					.02	.06									.07							.63										0.78
Bloomfield[2]	St. Francis															.53			.10				1.65	.11	.06								2.45
Bunker[2] ... 4 miles NW	Black						.40	.05												.39			.15	.29									1.28
Campbell	St. Francis						.11					.27			1.43				T.				.65										2.46
Cape Girardeau[2]	Mississippi			.12	T		.08	.03				1.10	.10	3.29		1.00							.06	2.46	.03								8.27
Caruthersville[2] ..(A)	do							1.49					.30			.49							.65	.12									3.05
Caruthhrsville ...(B)	do																						.66	.11	.01								....
Centerville(1)[2]	Black						.15							T.		T.				T.			1.00	.20									1.35
Centerville(2)[2]	do						.20	.01								.05				.01			.63	.31									1.21
Cook Station[2]	Meramec						*	.47																									0.47
Crane Mountain[2]	St. Francis						.42								.04	.75							.20	.08									1.49
Crystal City	Mississippi			T		.01	*	.95					.56		1.85				.04				.01										3.42
Cuba	Meramec						.57												.70				.02										1.29
Deering[2]	St. Francis							.64				T.	1.27			.33							1.93	.05									4.22
De Soto[2]	Mississippi				.02		.15	.09					.52			.44			.14					.04									1.40
Dexter[2]	St. Francis							.15				.26				.62			.11				1.43	1.24	.05								3.86
Doniphan(1)	Black															T.							.89	1.95									2.84
Doniphan(2)[2]	do															.08							1.25	1.52	.23								3.08
East End[2]	Meramec						.12									.24								1.75									2.11
Eastwood Lookout[2]	Black															.80							3.00	.10									3.90
Ellington[2]	do						.09							.08		.44			.11				.59	.24									1.55
Ellsinore Lookout[2]	do						.13									.42			.17				.80	.60	.12								2.24
Farmington[2]	St. Francis						.32						.21			.95								.04									1.52
Fisk[2]	do														*			2.48					.65	.05	T.								3.18
Fredericktown[2]	do						.52					T.				.89							T.	.10									1.51
Gerald[2]	Meramec						.52					T.			.17								.35	T.									1.04
Greenville(1)	St. Francis				.56							.08				1.59							.62	.10									2.95
Greenville[2] (2)	do						.28									1.66			.04				.30	.70	.07								3.05
High Lookout[2]	Black															.05			1.29				2.14	.14									3.62
Jackson	Mississippi			.51			.97					.56	.67		.02	.67							.38	3.02									6.80
Jefferson Barracks[2]	Mississippi			T.			.55					T	2.10		.03								.52										3.20
Jerome[2]	Gasconade				T.		.46	.16								.08																	0.70
Koshkonong[2]	Black							*T.*								.18				*T.*			1.79	.12	.07								2.16
Leeper[2]	do				.12		.11					.04				.70							.64	.52	.06								2.19
Licking(1)... 4 miles N	Gasconade				.37		.32								.20								T.										0.89
Licking(2)[2]	do						.65	.06															.40	.05									1.16
Macedonia Lookout[2]	Black					.09									.20	.17			.10				*	2.35									2.91
Malden[3] ...4 miles NNW	Mississippi						.01				T.	.35			1.49			.02					1.25	T.									3.12
Marble Hill	do			.48			1.39				.32	.13		.21		.49		.40					.39	1.25									5.06
Meramec Park[2]	Meramec						.32						.13						.11	T.			T.	.02									0.58
Morehouse	Mississippi											.28			T.	.49							1.17	.09									2.03
Moselle[2]	Meramec						.32					.01	.97										.44										1.74
New Madrid[2]	Mississippi											T.											.55	T									0.55
Oates Tower[2]	Black																																....
Owensville[2]	Gasconade						.52						*.55*										2.40										§3.47
Pacific[2]	Meramec						*.34*						.90	.15	T.								1.00										§2.39
Parma[2]	St. Francis											.40				.60			T.				.94	.15									2.09
Perryville	Mississippi		.15								T.				1.53								*	.11									1.79
Pilot Knob[2]... 2 mi. NE	St. Francis				.97								.05							.13					.05								1.20
Poplar Bluff[2] ....(A)	Black															.21			T.	T.			.89	2.00	.10								3.20
Poplar Bluff[2] ....(B)	do															.23			.03	.18			.90	1.99	.18								3.51
Puxico[2]	St. Francis															1.05							1.50	.23	.10								2.88
Qulin[2]	do															.18			.26				.87										1.31
Reynolds[2]	Black																						1.09	.14									1.23
Richwoods[2]	Meramec						.96						.80			.46																	2.22
Rolla[2]	do				.07		.35	.10				T.	T.			.04				.04				.06									0.66

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Daily Precipitation for August 1945—Continued from preceding page

Stations	Drainage-basins	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Total
Southeastern Division — Concluded																																	
Round Spring[2]	Black																							.85									0.85
St. Louis:																																	
City Office[1], [5]	Mississippi		.07			.03					.02	2.50	.10		.04				T.			1.61	.01										4.38
Airport[3], [5]	Missouri		1.07			.18	T.	T.			.03	1.54	T.		.07				.25			.44	T.										3.58
St. Louis Univ.[1], [5]	Mississippi		.17				.05				.02	2.42	.17		.07				.01			1.21	.02										4.14
Washington Univ.[2]	....do			.30			.02					.02	1.95		.01								2.37										4.67
Salem[2]	Meramec				.04		.16	.04												.03			.05	.02									0.34
Sikeston[2]	Mississippi											.22	.04	2.13	T.	.30							.65	.08	.01	T.							3.43
Steelville[2] ...2½ mi. NE	Meramec						*	.45			T.					.10			.54	T.													1.09
Summersville[2]	Black				.05														T.			T.	.75										0.80
Union ....1½ mi. SE	Meramec						.24						.70		.11							.02											1.07
Valley Park[2]	....do			.33			.45					T.	.92		T.					1.35			.75	T.									3.80
Van Buren[2]	Black															1.30			.20				1.06	.41									2.97
Vichy[3] .....2 miles NW	Meramec				.12	.04	.56				.23				.03		T.	.03	T.			.20	.03										1.24
Wappapello Dam[2]	St. Francis				.13											1.59							1.43	.28	.06								3.49
Webster Groves	Mississippi		.22	T.			.09				T.	T.	1.11		.04				*	.02			.25	T.									1.73
Weingarten	....do						.61								.82																		1.43
West Plains[3]	Black				T.		T.				T.		T.		1.11		T.	.04	.04			.02	.60	T.									1.81
Williamsville[2]	....do															.08			.61				.76	1.91	.22								3.58
Willow Springs[2] 500 ft E	White						1.22	.08						.36		.31				.10			.48	.27									2.82
Winona Ranger Sta.[2]	Black															.01			.41				.83	.32									1 57
Zalma[2]	Mississippi						.78	T.								.68			.36				.51	.56	.05								2.94
Cairo, Ill.[1], [5]	....do		.40				.01				.03	.53	.15	.65	.14			T.					1.23	.14									3.28

Except as otherwise indicated, amounts are for 24 hours ending late in afternoon. [1] Midnight to midnight. [2] Measured in the morning; for the preceding 24 hours. [3] Data for 24 hours ending 12:30 A. M. (C. S. T.) of following day. [5] Recording gage. T. Trace or 0.005 inch or less. * Included in next measurement. // Windshield on gage. Italics data interpolated. § Partly interpolated. (A) Record from cooperative station gage. (B) Record from river station gage. ‡ Received too late to be included in means and extremes.

Daily Evaporation (inches), Mean Temperature (F°), and Wind Movement (miles) for August 1945

(See precipitation data in daily precipitation table)

Station	Data	Day of month																															Monthly
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Columbia (Univ. of Mo. Hort. Exp. Sta. 9 mi. WNW.)	Evaporation	.339	.291	.152	.127	.219	....	.261	.229	.158	.072	.151	.199	.172	.227	.281	.132	.217	.213	.198	.239	.178	.220	.241	.189	219	.338	.303	.319	.320	.278	.360	7.070
	Mean temperature	86	86	83	78	85	81	72	68	70	71	77	76	80	82	70	74	78	76	78	78	78	70	66	66	70	70	76	76	78	82	83	76.3
	Wind movement	68	21	9	25	50	39	6	3	3	2	15	5	6	60	7	6	2	39	15	7	5	26	18	5	12	38	54	43	54	31	64	738
Lakeside (Osage Dam)	Evaporation	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.....
	Mean temperature	82	84	80	82	84	76	72	69	71	68	76	79	78	76	72	76	80	76	76	76	78	70	67	67	69	70	72	74	76	80	80	75.3
	Wind movement	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
St. Louis (Washington University)	Evaporation	.241	.209	.226	.176	.203	.161	.152	.220	.174	.136	.093	.273	.147	.162	.116	.208	.178	.152	.162	.205	.147	....	.085	.129	.165	.206	.158	.192	.203	.189	.194	5.434
	Mean temperature	81	87	79	78	84	80	74	70	72	74	79	78	83	82	74	74	78	79	79	79	82	68	68	68	68	68	73	76	80	83	84	77.0
	Wind movement	20	22	23	27	22	21	19	46	26	12	13	29	15	29	33	24	16	10	16	16	7	33	44	20	15	33	14	17	15	13	10	660

Observations taken at 8:00 a. m. except at 7:30 a. m. at Lakeside. For Lakeside and St. Louis (Washington University) descriptions see April 1932 and August 1938 reports, respectively. * Included in next measurement.

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width of path are unknown.

About noon (C. W. T.) of the 11th, high winds accompanying a moderate hailstorm struck Clifton Hill, and vicinity, and property damage estimated at $600 to $700 resulted. This storm came from the northeast and covered a path about 3 miles wide and 12 to 14 miles long. Hail damage to crops was estimated at $500.

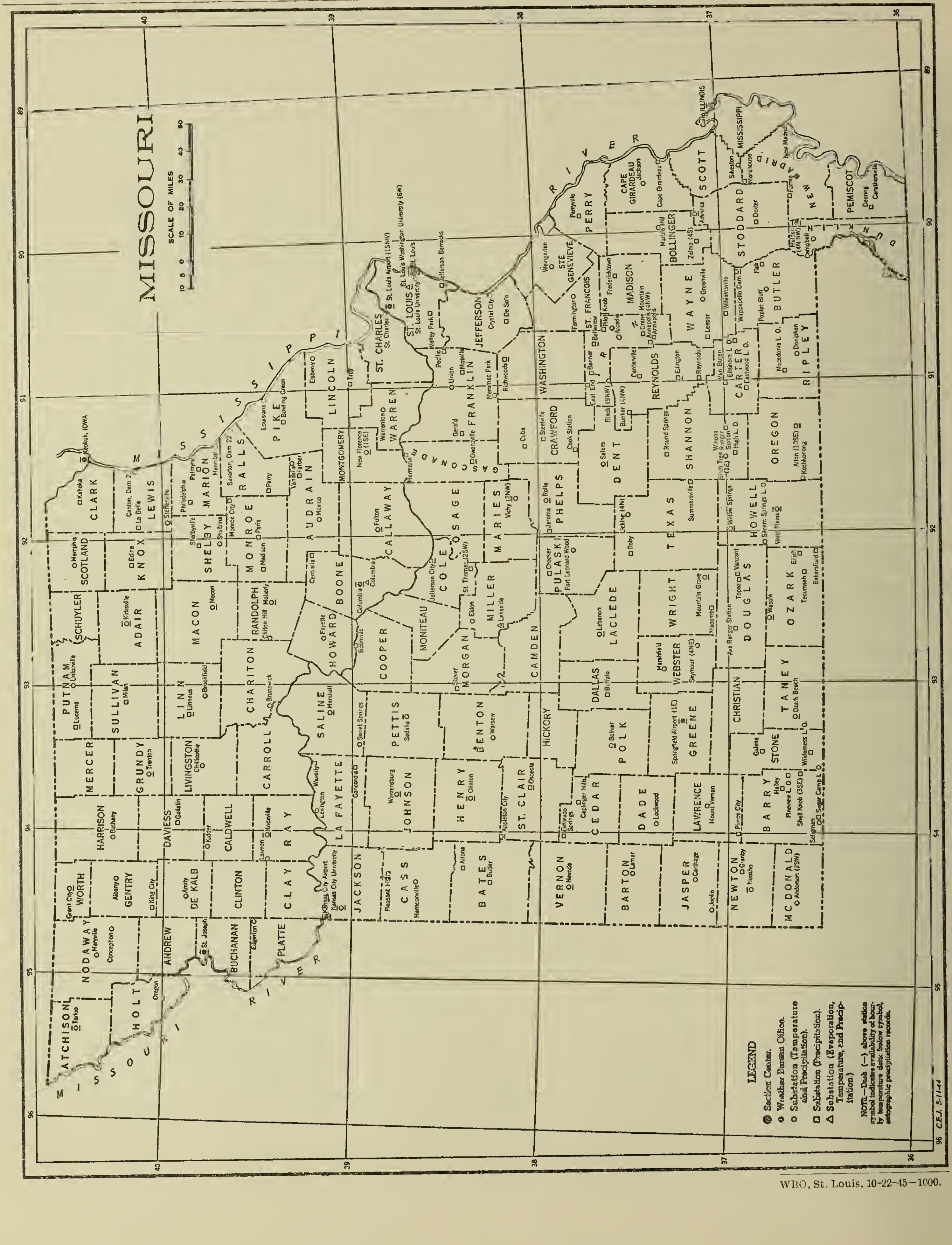
On the 17th, from 9:40 p. m. to 10:15 p. m., (C. W. T.) high winds, estimated at 50 M. P. H., struck Browning, and vicinity, with considerable damage to trees, hayricks and stacks, and corn; also some damage was done to buildings located 10 miles east of Browning. The winds shifted from the east, to northeast, then to north, although they were reported as straight-line winds. The storm movement was from the northwest, with path about 10 to 12 miles in length and of unknown width. Amount of damage was not reported.

During the late afternoon of the 22d, a windstorm, accompanied by heavy hail, struck the vicinity of Graham and extended nearly to Maryville, in Nodaway County, resulting in minor damage to small outbuildings, trees, gates, and wires. The storm came from the southwest and the path was six miles wide and eight miles long. Damage from wind was relatively light, but hail damage to crops was estimated at $100,000.

Daily Temperatures for August 1945

Stations		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Northern Division																																	
Brunswick /	Maximum...	98	98	76	88	97	90	82	83	83	74	91	92	89	84	82	88	96	90	91	93	92	80	80	85	82	87	93	94	95	97	97	88.6
	Minimum ...	73	75	73	68	71	71	63	57	57	63	66	66	66	69	61	59	63	65	66	68	67	64	62	53	53	58	57	62	65	68	69	64.5
Chillicothe /	Maximum...	99	96	77	87	94	90	82	82	84	77	91	91	90	84	83	89	96	90	91	95	84	78	78	87	88	90	95	96	96	98	98	88.9
	Minimum ...	74	74	67	68	69	66	60	55	58	63	65	65	66	68	58	59	62	65	65	67	68	58	57	52	52	54	58	64	67	72	73	63.7
Columbia	Maximum...	98	98	82	88	99	86	81	82	82	76	90	88	92	86	81	88	93	85	91	92	92	80	78	83	82	86	93	94	95	97	97	88.2
	Minimum ...	75	76	72	69	73	67	62	58	63	65	67	66	71	68	62	66	67	69	69	69	67	64	58	54	60	58	63	64	68	72	72	66.3
Fayette	Maximum...	96	97	89	88	97	86	80	84	81	75	89	88	88	86	81	87	93	84	90	92	91	80	77	82	80	84	93	92	93	95	96	87.5
	Minimum ...	73	74	68	67	73	69	60	58	58	63	65	64	66	76	64	61	63	63	65	65	64	63	57	52	61	54	59	59	62	67	68	63.9
Grant City	Maximum...	95	90	85	84	85	85	80	79	79	78	85	85	88	85	80	85	93	91	90	91	85	77	77	85	83	88	92	94	95	96	95	86.5
	Minimum ...	75	74	62	67	74	60	59	55	62	62	64	64	68	69	57	59	61	64	65	68	65	57	53	54	56	59	63	71	68	70	70	63.7
Hannibal	Maximum...	97	93	80	82	95	88	78	81	83	82	85	81	89	82	80	82	89	88	87	92	89	78	77	82	77	80	93	93	92	97	96	86.1
	Minimum ...	76	72	67	63	70	68	60	57	61	64	65	66	68	69	61	61	64	68	67	67	68	62	56	55	61	54	60	64	67	71	71	64.6
Kansas City Airport	Maximum...	98	100	86	98	98	90	82	78	85	74	93	92	95	84	80	93	99	96	95	95	87	77	78	87	82	92	94	96	96	97	98	90.2
	Minimum ...	76	77	69	72	77	69	63	58	70	68	70	67	74	68	64	66	70	76	73	74	69	63	59	56	64	66	69	71	74	77	77	69.2
Kirksville	Maximum...	99	95	89	79	92	90	85	82	85	80	87	87	87	87	82	85	94	90	90	92	88	79	79	83	82	83	93	94	93	97	95	87.8
	Minimum ...	76	74	67	61	72	68	60	57	59	65	67	68	65	72	58	60	63	65	65	67	70	58	56	53	56	56	59	66	70	73	73	64.5
Lawson	Maximum...	99	98	82	93	94	90	81	82	84	76	90	91	92	84	79	90	98	96	95	95	88	73	80	87	84	92	95	96	96	98	97	89.5
	Minimum ...	73	72	66	68	73	68	56	56	62	64	65	63	65	73	57	60	67	68	66	67	66	59	53	50	60	59	64	65	68	73	71	64.4
Louisiana /	Maximum...	98	93	82	88	97	87	78	80	82	85	75	82	80	88	80	87	90	89	87	89	89	77	78	81	77	80	93	96	95	99	98	86.5
	Minimum ...	75	75	70	65	65	66	63	56	53	56	60	62	66	56	55	61	62	66	64	61	63	62	56	47	52	48	59	60	64	68	68	61.4
Macon /	Maximum...	97	100	83	84	95	91	83	85	86	74	98	86	87	85	84	87	95	88	90	91	90	80	81	83	82	84	92	93	94	96	96	88.4
	Minimum ...	74	74	68	67	67	65	60	55	57	59	64	65	65	66	58	60	61	63	65	67	67	59	60	52	53	54	55	57	66	69	74	62.8
Maryville	Maximum...	94	91	88	85	84	85	78	78	81	75	85	84	87	86	79	84	92	88	88	91	85	78	76	84	80	87	91	94	92	94	95	85.8
	Minimum ...	74	71	65	67	73	62	57	55	63	64	64	65	68	70	60	60	63	69	67	66	66	58	55	53	59	58	61	70	68	66	72	64.2
Mexico /	Maximum...	97	98	81	86	96	86	80	81	85	82	89	83	93	79	84	87	93	86	91	92	92	76	78	83	80	84	94	94	94	98	97	87.7
	Minimum ...	73	75	71	68	67	72	60	56	56	62	65	63	65	69	59	58	59	65	65	66	64	61	55	51	54	55	59	61	65	68	70	63.1
Moberly /	Maximum...	97	98	79	86	95	88	81	80	82	82	88	83	88	82	79	85	91	88	87	90	89	89	75	80	78	85	91	91	92	94	95	86.7
	Minimum ...	75	74	70	66	66	68	59	55	58	62	66	62	67	76	58	59	63	65	68	64	65	64	60	53	59	55	61	63	67	70	72	64.2
Oregon	Maximum...	99	95	88	91	87	85	83	78	81	77	90	90	92	88	83	88	97	95	92	94	89	79	80	87	82	91	94	97	95	96	95	89.0
	Minimum ...	73	72	66	69	74	66	57	54	63	62	65	64	69	69	58	60	67	72	69	67	67	58	55	55	59	59	64	71	68	71	73	65.0
St. Charles /	Maximum...	95	95	82	87	99	88	82	81	85	85	90	89	92	85	83	86	90	89	90	93	95	70	78	84	80	82	92	95	97	99	92	88.1
	Minimum ...	75	75	72	67	69	74	63	60	59	61	65	70	72	73	64	63	65	68	66	66	67	65	57	56	60	56	57	59	66	68	71	65.5
St. Joseph	Maximum...	98	95	77	92	88	86	82	79	83	77	87	91	93	84	82	87	96	95	92	94	81	79	79	86	82	91	94	95	95	96	96	88.1
	Minimum ...	75	75	67	70	73	66	62	57	66	65	65	65	71	66	62	61	70	74	71	71	62	60	58	55	63	63	69	74	74	74	76	67.1
Trenton	Maximum...	100	97	94	90	89	92	86	80	83	86	88	91	90	85	83	89	94	96	92	96	88	80	81	87	82	90	94	98	98	99	99	90.2
	Minimum ...	74	74	66	66	67	64	59	55	61	61	67	65	66	61	57	59	61	61	64	65	65	59	58	50	50	58	66	65	69	72	72	63.1
Unionville /	Maximum...	100	93	86	79	90	92	81	84	84	76	87	90	88	89	85	88	96	91	90	93	80	82	81	85	82	85	93	95	95	98	97	88.2
	Minimum ...	72	75	66	64	62	60	59	55	55	62	66	62	62	65	55	56	60	62	64	65	66	57	54	52	54	56	57	61	68	67	70	61.6
Warrenton	Maximum...	96	97	84	88	100	94	86	81	84	85	90	87	94	88	85	84	95	89	91	94	96	80	79	85	82	82	95	95	95	99	98	89.6
	Minimum ...	70	74	70	66	70	70	58	52	52	60	66	67	66	75	57	55	59	61	65	61	61	62	52	47	55	54	56	60	65	69	70	62.1
Keokuk, Iowa	Maximum...	98	91	84	82	96	91	76	82	83	80	83	82	87	83	79	83	90	87	88	92	83	77	76	82	77	79	92	92	92	98	95	85.8
	Minimum ...	80	74	65	64	72	67	62	59	64	66	67	65	68	69	61	63	66	69	70	69	65	61	56	56	62	57	63	69	71	75	76	66.2
Southwestern Division																																	
Clinton	Maximum...	99	100	88	99	100	86	85	80	85	72	90	91	92	88	84	92	98	96	95	96	96	78	79	87	86	94	96	96	97	99	100	91.1
	Minimum ...	69	70	72	72	63	69	60	58	63	66	66	68	69	69	62	62	70	68	66	66	62	64	59	55	60	62	65	62	66	68	70	65.2
Eldon	Maximum...	97	97	89	92	100	89	82	81	83	73	89	92	92	87	84	89	93	86	89	90	92	77	79	84	84	87	94	93	95	98	98	88.9
	Minimum ...	71	74	71	70	74	71	61	58	61	61	65	70	67	75	61	62	66	69	65	63	68	62	55	53	62	53	58	57	63	69	69	64.6
Harrisonville /	Maximum...	96	99	88	96	99	88	88	82	84	72	91	95	93	89	85	90	99	98	94	94	93	81	83	88	88	81	94	94	95	99	98	90.8
	Minimum ...	69	69	70	71	71	71	58	58	62	64	64	66	68	72	61	62	63	69	67	67	65	62	57	57	58	60	61	62	63	65	68	64.5
Jefferson City /	Maximum...	96	97	86	90	97	86	83	83	85	79	90	92	94	87	85	91	93	85	92	92	95	78	81	84	85	86	94	94	95	98	98	89.4
	Minimum ...	69	73	71	71	70	72	61	57	58	60	65	67	68	68	62	62	63	68	66	63	66	64	58	55	55	55	59	59	62	67	70	64.0
Joplin	Maximum...	91	94	96	96	96	86	80	78	81	77	84	90	94	85	80	87	92	85	91	91	90	78	80	85	90	89	90	90	93	93	93	87.9
	Minimum ...	78	76	79	77	80	72	68	65	67	70	70	77	74	76	69	70	66	74	68	70	70	67	62	62	62	69	68	66	72	76	77	71.2
Lamar /	Maximum...	93	95	95	97	97	78	80	79	80	75	85	90	91	87	80	85	93	88	90	89	88	77	79	84	89	90	90	90	93	94	95	87.6
	Minimum ...	72	69	69	72	73	68	63	61	61	65	65	65	69	69	64	64	64	69	64	65	65	65	58	53	52	57	63	60	60	63	68	64.4
Lebanon /	Maximum...	92	94	92	96	98	79	79	80	83	80	90	92	95	83	82	87	84	87	90	90	90	70	76	82	86	88	92	91	93	95	96	87.5
	Minimum ...	70	70	70	71	70	70	62	57	57	60	61	65	67	67	61	61	63	63	60	62	63	63	54	51	52	57	58	58	57	64	68	62.3
Lexington /	Maximum...	100	101	84	95	100	91	86	84	86	78	92	94	94	86	84	92	99	95	95	96	94	82	82	88	85	96	95	97	98	98	99	91.8
	Minimum ...	74	75	75	72	73	72	62	58	59	67	68	69	68	70	64	64	65	65	67	68	69	63	58	55	56	63	65	66	70	73	75	66.7
Marshall	Maximum...	97	96	95	89	..	86	86	80	80	80	90	90	91	91	88	91	94	93	91	94	96	93	91	83	85	92	96	99	97	100	102	[a]91.2
	Minimum ...	73	74	69	70	..	75	59	53	53	55	66	67	69	78	60	62	66	61	67	67	66	61	59	53	62	57	65	64	66	72	73	[a]64.7
Mountain Grove	Maximum...	93	95	97	95	98	89	83	81	82	81	90	94	95	92	87	87	94	91	89	91	91	84	81	85	91	88	90	91	94	96	96	90.0
	Minimum ...	71	70	70	72	72	70	63	57	58	63	65	70	67	71	62	65	65	63	65	64	63	64	58	52	57	59	58	58	64	71	70	64.4
Neosho	Maximum...	94	93	95	95	92	92	92	80	88	87	88	93	95	94	84	84	90	92	93	92	90	88	81	85	91	90	92	92	95	95	95	90.5
	Minimum ...	71	66	69	68	72	69	65	57	61	61	64	69	66	75	63	62	67	69	62	60	62	69	58	51	52	60	62	56	56	67	70	63.8
Nevada	Maximum...	96	99	99	101	100	100	83	83	85	80	88	95	94	92	84	90	97	93	95	95	93	81	83	87	92	92	92	94	95	97	97	92.0
	Minimum ...	71	69	71	74	72	69	63	60	65	66	66	70	69	74	64	63	72	69	64	65	64	64	58	51	57	62	62	59	64	68	71	65.7
Sedalia	Maximum...	97	96	97	92	100	98	86	81	83	82	90	93	93	92	86	89	95	92	92	92	95	79	78	85	83	88	93	93	94	96	97	90.5
	Minimum ...	71	73	71	71	75	72	59	55	63	65	68	65	69	76	65	61	68	66	68	68	65	62	57	51	58	61	65	63	66	70	72	65.8
Springfield .. ½ mile E	Maximum...	93	94	96	97	97	80	79	77	81	78	86	90	96	84	79	84	93	88	88	88	89	74	78	84	91	84	90	91	94	95	95	87.5
	Minimum ...	69	69	72	73	73	68	64	60	62	65	65	69	69	70	65	66	68	67	67	65	67	61	57	53	58	63	62	59	64	69	70	65.4
Warrensburg	Maximum...	98	98	98	96	101	85	87	83	83	82	90	92	92	90	86	91	98	97	95	95	95	84	83	85	86	90	94	93	95	97	97	91.5
	Minimum ...	72	74	74	72	70	70	62	57	62	66	67	68	69	64	61	64	71	67	68	69	67	63	59	56	61	63	65	64	67	72	73	66.4
Southeastern Division																																	
Arcadia /	Maximum...	97	99	99	96	97	85	87	85	88	87	90	96	98	97	89	88	91	86	93	97	91	76	80	87	80	88	93	93	95	97	97	91.0
	Minimum ...	71	71	69	69	68	67	66	57	55	49	53	66	66	69	66	63	64	62	63	65	60	62	62	54	51	49	49	49	56	58	65	61.1
Birch Tree .. ½ mile E	Maximum...	94	..	97	93	98	91	85	..	..	88	92	95	98	92	87	87	91	86	89	91	89	79	77	82	90	82	83	87	91	93	93	[c]89.3
	Minimum ...	68	..	69	72	71	73	66	..	..	59	63	63	76	75	66	65	65	61	65	61	63	66	63	56	54	[c]56	60	52	59	64	62	[c]64.0
Caruthersville /	Maximum...	94	96	95	93	92	90	85	81	85	88	84	89	90	91	84	83	86	88	88	89	90	84	70	77	85	80	82	89	90	91	92	87.1
	Minimum ...	73	73	75	75	73	73	72	64	64	66	68	70	71	73	73	67	66	67	70	70	71	62	63	64	61	59	58	59	64	67	69	67.7
Crystal City	Maximum...	*95*	*98*	*92*	91	99	91	92	85	89	88	90	91	96	95	86	86	94	89	90	94	95	91	82	83	85	82	91	95	97	100	98	91.3
	Minimum ...	70	72	70	62	69	71	63	62	55	56	68	67	69	71	63	61	65	64	65	61	63	65	59	53	57	53	48	50	58	62	64	62.5
Doniphan	Maximum...	100	103	102	95	102	96	92	85	97	97	98	101	103	102	91	94	97	97	95	96	95	85	73	85	93	86	89	92	96	97	97	94.5
	Minimum ...	69	69	70	72	71	72	69	61	57	67	69	63	68	74	61	64	64	64	65	60	63	70	61	67	55	56	50	54	59	64	63	64.2
Farmington	Maximum...	93	99	94	92	97	85	84	81	87	89	93	93	97	97	84	86	92	87	90	94	92	77	77	84	85	83	90	93	95	101	97	89.9
	Minimum ...	73	74	69	67	67	70	62	56	57	56	66	67	68	71	63	61	62	63	62	60	62	62	57	54	53	49	50	56	59	64	65	62.1
Jackson	Maximum...	98	101	97	93	95	95	85	83	88	89	90	92	94	95	85	85	89	88	91	94	93	89	68	80	87	86	86	89	90	95	94	89.8
	Minimum ...	73	73	71	69	68	74	67	59	59	59	68	71	72	74	67	64	64	67	64	63	65	65	58	60	55	51	51	55	60	61	65	64.3
Poplar Bluff	Maximum...	92	99	97	93	96	90	90	86	88	92	95	97	97	98	88	88	93	93	92	93	94	79	74	83	91	80	87	91	94	95	95	90.6
	Minimum ...	72	74	72	72	72	74	69	60	59	61	73	72	72	74	70	65	67	65	67	65	65	64	65	54	56	57	52	56	61	62	65	65.5
Rolla /	Maximum...	93	95	91	91	96	80	82	80	83	82	89	91	95	87	85	88	92	87	92	93	94	70	80	83	86	85	95	94	95	97	97	88.6
	Minimum ...	70	71	72	70	72	70	66	60	60	61	65	69	67	75	66	64	68	65	65	64	66	63	61	60	58	67	60	60	67	69	71	65.9
St. Louis	Maximum...	93	96	85	88	95	86	80	81	85	86	87	87	93	87	81	84	88	89	88	88	94	71	77	80	78	80	91	92	94	97	97	87.0
	Minimum ...	78	78	76	69	72	74	66	62	66	68	69	72	72	73	67	67	67	72	72	73	70	65	59	60	64	59	63	64	72	74	76	69.0
Salem	Maximum...	97	98	94	93	99	95	83	81	87	86	94	94	99	91	87	91	95	92	95	98	95	75	83	85	90	87	94	94	98	100	100	91.9
	Minimum ...	72	71	69	71	71	71	62	56	55	57	64	71	65	74	63	64	65	61	64	60	62	64	57	50	53	52	55	54	63	68	69	63.0
Sikeston /	Maximum...	98	101	98	94	97	93	90	84	89	91	92	94	93	95	86	85	92	91	92	94	92	79	67	82	89	79	87	91	96	97	96	90.5
	Minimum ...	73	75	73	70	65	72	63	56	54	56	60	61	62	63	58	55	54	60	55	*59*	*62*	58	*52*	*53*	*56*	*53*	*55*	*55*	65	67	69	60.9
Union ...... 1½ mi. SE	Maximum...	95	97	90	90	99	96	85	82	85	88	92	90	93	89	84	85	94	91	90	93	95	87	80	84	85	83	95	95	98	101	101	90.7
	Minimum ...	70	73	71	68	69	71	60	54	54	56	65	68	67	74	62	59	63	63	64	60	62	65	56	50	53	48	48	51	59	63	65	61.6
West Plains	Maximum...	97	99	100	96	101	87	87	82	86	88	96	96	100	94	85	88	93	90	91	93	88	72	76	85	91	82	86	90	95	95	96	90.5
	Minimum ...	70	70	68	72	70	72	65	59	56	56	62	68	65	71	67	65	66	63	63	60	63	65	58	55	55	56	51	51	58	64	62	62.8
Cairo, Ill.	Maximum...	96	98	93	92	94	90	86	82	87	88	84	89	90	93	86	82	86	88	89	90	91	77	69	81	86	78	85	90	91	93	94	87.7
	Minimum ...	77	75	74	73	75	76	69	64	65	66	72	73	72	74	71	67	68	71	69	70	74	69	63	64	64	57	59	64	71	71	72	69.3

/ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs. [a], [b], [c], etc., number of days missing, for example, [b] indicates two days missing. Italics data interpolated. § Partly interpolated.



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CLIMATOLOGICAL DATA

19

MISSOURI SECTION

H. F. WAHLGREN
ST. LOUIS, MO.

VOL. XLVIV — SEPTEMBER 1945 — No. 9

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GENERAL SUMMARY

The outstanding characteristic of the month was the unprecedented frequency of rainfall and the amount thereof, which averaged more than in any previous September since State-wide records began in 1888. The previous wettest September of record was 1926, with an average of 8.64 inches, as compared to 9.46 inches for the current month. Distribution of the month's rainfall was very irregular, monthly totals ranging from 18.36 inches at Buffalo, in the southwestern portion of the State, to only 3.59 inches at Tarkio, in the extreme northwestern corner. Precipitation averages and departures from normal, by divisions, were as follows: Northern 8.83, +4.61; Southwestern 10.07, +5.74; Southeastern 9.49, +5.81. The first week of the month was rather dry, as a rule, but rains set in on the 7th and occurred at frequent intervals throughout the remainder of the month, particularly the last ten days when rain fell almost daily. Despite the record-breaking September precipitation and the unusual frequency of the rain there were no overflows in the major streams of the State, except locally in the Meramec River at Pacific and in the Mississippi River at Louisiana.

Temperatures averaged practically normal during September and no unusual extremes occurred. There was no frost reported anywhere in the State during the month. The first nine days and from the 22d to 28th were generally warmer than normal, with cool periods from the 10th to 18th and the last two days of the month. The 1st, 4th, 5th, and 9th were generally the warmest days, while the 14th, 15th, 29th, and 30th were the coolest days of the month. Maxima of 100°, or slightly above, occurred at several stations in the Southwestern Division on the afternoon of the 4th and 5th, but there were no occurrences of 100° heat over the Southeastern Division, and at only one station, on two days, in the Northern Division. Sunshine for September averaged approximately 10% deficient, for the State as a whole.

The month was free from destructive storms, although a few local occurrences of light hail, without damage, were reported on three days. A rather strong earthquake shock was felt at Caruthersville, and vicinity, on the 23d.

Unusually wet weather the last three weeks of September was unfavorable for maturing of corn and soybeans and for late hay harvest. However, pastures and early sown rye and wheat, for fall pasture, benefitted materially, and dwindling water supplies were adequately replenished by the frequent and heavy rainfall. Some fall plowing was accomplished during the first half of the month, but the frequent rains and wet fields, particularly the last ten days, delayed this work quite generally. It was estimated about 60% to 65% of the corn crop would mature enough to escape frost damage. Cotton in the southeastern counties continued to make good progress during the month, with some bolls opening the last week, but there had been no ginning at the close of the month. Warm, dry weather was badly needed as September closed for the maturing of late crops of corn, soybeans, and cotton.—M. R. W.

(Continued on page 67)

PRESSURE, WIND, HUMIDITY, AND SUNSHINE

Stations	Sea-level pressure, extremes–inches: Highest	Date	Lowest	Date	Wind: Average hourly velocity	Maximum velocity	Direction	Date	Relative humidity ¶: 6:30 a. m.	12:30 p. m.	6:30 p. m.	Percentage of sunshine	Degree days
Columbia	30 48*	29	29.69*	14	7.2	24	nw.	9	88*	64*	67*	55	70
Kan. City Airp't*	30.51	29	29.74	23	10 5	34	s.	23	81	55	59	57	62
St. Joseph	30.53*	29	29.68*	23	7.9	28	w.	9	87*	57*	62*	58	82
St. Louis	30.45*	29	29.57*	13	11.1	32	sw.	24	86	65	70*	50	47
Springfield	30.35	29	29.75	12	11.8	40	s.	12	91	71	74	59	55
Cairo, Ill.	30.31	29	29.56	13	7.8	24	sw.	13	90	66	..	72	16
....	.....	..	.....	..	....	..	......	..	..	..	..	..	....

* Data for Airport station. ¶ C. S. T.

COMPARATIVE DATA FOR SEPTEMBER

Year	Temperature: Average for State	Highest	Lowest	Precipitation: Average for State	Average, Northern Division	Average, Southwestern Division	Average, Southeastern Division	Snowfall, Average for State	Number of days: Precip. .01 inch or more	Clear	Partly cloudy	Cloudy
1888	65.2	97	28	1.01	1.13	0.87	1.02	0	4	..	..	..
1889	64 7	94	32	4.68	5.55	4.66	3.83	0	11	..	..	..
1890	63.7	98	30	4.36	3.25	5.49	4.34	0	9	..	..	..
1891	70.6	104	34	0.72	0.53	0.90	0.72	0	6	..	..	..
1892	67.8	97	32	2.46	2.73	2.71	1.93	0	4	19	6	5
1893	69.9	107	26	4.07	3.50	3.96	4.74	0	6	17	7	6
1894	68.5	101	34	4.94	4.16	6.42	4.23	0	8	13	11	6
1895	71.8	104	24	2.38	2.04	2.43	2.66	0	4	19	8	3
1896	65.0	101	28	4.09	4.67	3.92	3.69	0	10	11	10	9
1897	74.3	105	27	0.67	0.97	0.61	0.43	0	2	23	5	2
1898	70.9	103	37	6.70	6.76	7.25	6.10	0	9	15	9	6
1899	67.4	108	21	1.96	2.27	1.79	1.81	0	4	20	6	4
1900	71.1	100	29	4.59	4.77	5.56	3.44	0	10	13	10	7
1901	68.9	103	27	2.16	2.41	2.75	1.31	0	6	18	8	4
1902	63.2	95	30	4.63	4.74	5.36	3.79	0	10	15	6	9
1903	66.6	98	32	4.16	5.64	3.56	3.28	0	8	17	6	7
1904	69.6	96	34	3.77	4.72	2.78	3.82	0	7	16	8	6
1905	69.6	98	41	7.40	8.20	8.36	5.64	0	10	15	6	9
1906	71.9	98	36	4.53	3.54	3.75	6.31	0	11	15	8	7
1907	68.9	101	31	2.06	2.35	1.62	2.20	0	6	18	7	5
1908	71.6	99	28	2.15	1.49	2.69	2.27	0	4	18	8	4
1909	68.7	105	28	4.48	5.30	3.35	4.79	0	8	18	6	6
1910	69.5	97	34	5.45	5.90	6.44	4.01	0	10	14	6	10
1911	73.7	105	39	6.27	8.17	5.98	4.65	0	11	13	7	10
1912	68.6	105	27	3.11	2.72	2.87	3.74	0	6	17	5	8
1913	69.4	109	27	4.75	3.74	4.64	5.88	0	9	13	7	10
1914	69.6	99	35	6.06	7.19	6.01	4.98	0	9	15	8	7
1915	70.6	98	34	5.18	6.21	6.93	2.40	0	7	16	7	7
1916	67.8	101	27	2.97	2.73	3.18	2.99	0	6	19	7	4
1917	67.9	101	33	2.76	2.97	3.64	1.66	0	5	19	6	5
1918	62.3	96	29	4.83	4.11	5.44	4.95	0	7	17	6	7
1919	71.4	104	38	3.14	4.13	1.95	3.34	0	5	20	6	4
1920	70.0	100	31	4.60	4.37	5.78	3.64	0	9	17	7	6
1921	73.4	104	34	6.94	8.05	7.03	5.74	0	13	13	9	8
1922	71.7	107	31	3.10	3.95	3.62	1.74	0	5	21	5	4
1923	68.7	98	33	4.44	4.84	4.75	3.74	0	11	12	9	9
1924	64.0	96	29	3.79	3.41	4.55	3.40	0	8	14	8	8
1925	74.6	110	45	6.56	5.84	6.48	7.37	0	10	14	6	10
1926	69.3	97	27	8.64	11.74	9.12	5.06	0	13	12	7	11
1927	71.6	102	29	3.72	3.11	3.41	4.65	0	8	17	7	6
1928	65.0	95	28	2.50	5.36	1.62	0.53	0	5	20	7	3
1929	67.4	98	33	3.16	3.16	2.83	3.48	0	8	13	10	7
1930	71.3	105	37	4.28	2.86	5.48	4.49	0	8	16	7	7
1931	75.0	104	36	3.91	5.97	3.18	2.58	0	7	19	7	4
1932	67.8	99	33	2.56	2.08	2 04	3.57	0	6	17	8	5
1933	74.6	102	36	4.69	3.00	4.92	6.16	0	9	16	8	6
1934	65.6	95	32	7.39	7.49	7.79	6.89	0	12	12	8	10
1935	68.1	98	33	3.51	4.30	3.13	3.10	0	6	20	4	6
1936	73 6	109	37	8.62	8.76	9.98	7.12	0	11	11	9	10
1937	69.4	103	29	2.41	1.12	2.53	3.57	0	5	18	7	5
1938	71.6	103	30	1.85	1.51	2.40	1.65	0	6	18	7	5
1939	75.5	108	30	0.81	0.42	0.74	1.27	0	2	23	5	2
1940	68.8	100	28	0.69	0.35	1.11	0.62	0	3	19	6	5
1941	71.6	97	35	5.83	5.98	7.34	4.17	0	9	14	9	7
1942	67.4	97	22	4.19	3.58	6.51	2.47	0	7	15	7	8
1943	65.8	102	33	3.51	3.15	3.97	3.41	0	8	13	10	7
1944	69.1	100	36	2.82	3.10	2.87	2.49	0	6	15	8	7
1945	69.4	103	36	9.46	8.83	10.07	9.49	0	14	12	7	11
....	....	...	..	....	....	...	.....	.	..	..	..	..
....	....	...	..	....	....	....	....	.	..	..	..	..
....	....	...	..	....	....	....	....	.	..	..	..	..
Period	**69.3**	**110**	**21**	**4.08**	**4.22**	**4.33**	**3.68**	**0**	**8**	**16**	**7**	**7**

Climatological Data for September 1945

Stations	Counties	Elevation, feet	Temperature, in degrees Fahr.								Precipitation, in inches						Number of days				Prevailing direction of wind	Observers
			Length of record, years	Mean	Departure from the normal	Highest	Date	Lowest	Date	Length of record, years	Total	Departure from the normal	Greatest in 24 hours [4]	Date	Total snowfall, unmelted	With precip., .01 inch or more	Clear	Partly cloudy	Cloudy		
Northern Division																					
Albany	Gentry	930	4	67.1	......	98	5	37	20†	16	6.59	+1.04	2.18	21-22	0	13	15	5	10	s.	Curtis E. Grace
Bethany	Harrison	916	50	66.2	− 0.9	97	4	37	29	52	6.27	+1.71	1.97	21-22	0	14	13	5	12	sw.	B. A. McGregor
Brookfield	Linn	767	4	67.9	......	100	4†	40	29†	4	8.52	......	2.09	9	0	11	17	0	13	e.	G. F. Breen
Brunswick	Chariton	652	64	68.0	+ 1.0	98	4	43	29†	66	8.18	+3.37	1.70	28	0	15	14	4	12	nw.	O. K. Benecke
Canton, Lock & Dam 20	Lewis	488	7	66.3	......	95	4	43	29	15	7.68	+3.94	2.00	13-14	0	15	13	4	13	se.	Lockmaster
Chillicothe	Livingston	779	36	67.2	− 0.3	99	4	40	29†	39	8.00	+3.22	2.66	21-22	0	11	17	0	13	ne.	Wm. J. Olenhouse
Clifton Hill	Randolph	731	46	69.9	+ 1.3	98	4	41	29	36	10.05	+5.51	1.46	28	0	17	11	5	14	sw.	Dr. A. J. Bradsher
Columbia	Boone	740	55	69.0	− 0.4	97	5	44	29	55	13.34	+8.99	3.90	21-22	0	18	13	6	11	s.	U. S. Weather Bureau
Conception	Nodaway	1,108	56	68.0	+ 0.8	96	4†	37	29	61	8.07	+3.43	1.85	30	0	13	12	9	9	s.	Fr. Adelhelm Hess
Edgerton	Platte	856	25	69.4	+ 1.5	98	4†	41	20†	42	5.34	+0.75	1.17	27-28	0	13	19[a]	4[a]	6[a]	nw.	Paul C. Handley
Elsberry	Lincoln	449	14	67.2	− 2.1	97	9	43	15	14	8.65	+5.65	1.58	14	0	15	8	6	16	s.	Soil Conservation Service
Fayette	Howard	760	65	68.4	+ 0.3	97	4	42	15†	62	9.88	+4.92	2.49	22	0	14	15	3	12	s.	Irvin E. Schnell
Fulton	Callaway	818	57	68.2	− 0.7	99	4	43	30	53	12.13	+7.64	2.50	13-14	0	13	18	6	6	e.	Frank E. Hillgartner
Grant City	Worth	1,134	41	67.3	+ 0.3	96	4	36	29	53	7.13	+2.44	1.77	30	0	15	13	7	10	e.	J. Homer Korn
Hannibal	Marion	759	53	66.6	− 1.1	98	4	42	29	61	10.99	+7.02	2.20	13	0	16	12	5	13	se.	Hannibal Water Dept.
Kansas City Airport	Jackson	741	56	69.8	+ 0.9	98	4	42	29	56	6.55	+2.73	1.40	27-28	0	16	11	5	14	s.	U. S. Weather Bureau
Kansas City Univ.	Jackson	908	7	70.2	......	98	9	42	29	7	6.29	......	1.60	27-28	0	14	12	7	11	s.	University of Kansas City
Kidder	Caldwell	1,020	53	67.0	− 0.3	96	4†	37	29	57	6.98	+1.78	2.22	21-22	0	15	12	4	14	s.	Mrs. Geraldine Terry
Kirksville	Adair	969	56	67.0	+ 0.7	97	4	38	29	63	9.17	+3.99	2.16	13-14	0	16	13	8	9	se.	Dr. Willis J. Bray
Lawson	Ray	1,070	7	68.8	......	99	4†	40	29	7	7.67	......	1.98	30	0	11	11	11	8	ne.	Elmer E. Lamb
Louisiana	Pike	469	51	68.8	+ 0.8	98	4†	44	15	64	9.35	+4.92	2.04	12-13	0	15	12	8	10	s.	Stark Bro's Nurseries
Macon	Macon	875	46	66.0	− 1.9	96	4†	40	29†	52	9.15	+4.71	2.12	13-14	0	16	10	6	14	ne.	John W. Atwell
Maryville	Nodaway	1,169	55	66.2	+ 0.6	94	4†	37	29	51	6.10	+1.42	1.57	30	0	13	14	4	12	se.	R. B. Montomery
Memphis	Scotland	787	6	65.4	......	98	4†	39	29†	15	6.80	+2.62	1.66	13-14	0	15	9	6	15	se.	John W. Alexander
Mexico	Audrain	800	56	67.6	− 0.9	99	4	42	30	67	12.68	+7.71	3.35	21-22	0	12	10	7	13	sw.	Darrence W. Stuart
Moberly‡ ....3½ mi. NE	Randolph	860	8	....	......	..	..	..	..	8	....	......	....	..	0	..	..	..	..	......	F. W. Bell
New Florence. 1 mi SE	Montgomery	885	2	66.8	......	96	4	44	29	3	13.62	......	4.12	21-22	0	17	10	5	15	se.	U. S. Weather Bureau
Oregon	Holt	1,048	89	68.1	+ 1.0	95	4†	38	29	89	5.46	+0.36	1.03	28-29	0	12	16	6	8	ne.	Miss Mina Wright
St. Charles	St. Charles	520	57	69.4	+ 1.1	94	4†	47	29†	67	9.44	+5.60	2.27	13-14	0	14	13	8	9	sw.	Martin L. Comann
St. Joseph	Buchanan	957	35	68.0	− 0.4	97	5	40	29	73	5.35	+1.43	1.15	30	0	15	15	7	8	se.	U. S. Weather Bureau
Saverton, Lock No. 22	Ralls	472	7	67.4	......	95	9	42	29	7	9.19	.....	2.07	13-14	0	14	15	3	12	s.	Lockmaster
Shelbina	Shelby	779	4	66.8	......	96	4†	41	29	52	7.82	+2.88	1.35	13-14	0	12	7	6	17	nw.	Guyman Hatcher
Steffenville	Lewis	650	47	67.4	− 1.6	98	4†	41	29	52	9.52	+5.02	2.26	21-22	0	15	12	7	11	se.	Mrs. Fannie V. Gross
Tarkio	Atchison	916	42	65.7	− 0.6	93	1†	38	20†	51	3.59	−0.65	1.09	30	0	11	12	7	11	se.	C. A. A. Station
Trenton	Grundy	822	49	68.6	+ 1.4	98	4	40	29	50	7.54	+2.79	1.85	22	0	13	9	8	13	s.	W. H. Estes
Unionville	Putnam	1,062	52	65.0	− 2.1	98	4	37	29†	52	6.46	+1.37	1.76	27-28	0	16	12	9	9	sw.	Mrs. Dora A. Wilson
Vandalia	Audrain	766	1	....	......	..	..	..	..	6	....	......	....	..	0	..	..	..	..	......	August J. Little
Warrenton	Warren	816	63	68.9	− 0.1	96	4†	44	15†	55	12.97	+8.61	3.02	21	0	14	14	7	9	se	W. T. Zimmerman
Keokuk, Iowa	Lee, Ia.	574	73	66.2	− 1.3	95	4	42	29	73	6.99	+3.15	1.70	13-14	0	16	9	11	10	se.	U. S. Weather Bureau
Division means	**and extremes**	.....	..	67.6	− 0.1	100	4†	36	29	..	8.83	+4.61	4.27	21-22	0	14	13	6	11	s.	
Southwestern Division																					
Anderson ...1½ mi sw	McDonald	1,000	41	69.2	− 1.8	97	1†	41	15†	46	12.26	+8.38	4.38	24-25	0	11	15[a]	3[a]	11[a]	ne.	Samuel G. Chamberlain
Appleton City	St. Clair	813	50	69.8	− 0.6	98	4	43	29†	53	6.20	+1.82	2.56	24-25	0	12	15	1	14	sw.	Rolla Brown
Bolivar	Polk	1,071	42	70.9	+ 1.0	100	4	44	29	50	13.07	+8.86	4.43	21-22	0	14	13	8	9	sw.	Southwest Baptist College
Boonville	Cooper	650	7	66.9	......	98	4	43	28†	68	11.39	+6.20	2.50	21-22	0	15	8	8	14	se.	Boonville Water Dept.
Carthage	Jasper	962	11	70.2	......	97	1	43	15	21	11.66	......	4.86	23-24	0	12	11	12	7	n.	Carthage W. and E. Plant
Clinton	Henry	786	52	70.0	− 0.8	103	4	44	29	58	7.66	+3.14	2.80	24	0	14	13	4	13	s.	U. S. Weather Bureau
Eldon	Miller	934	50	....	......	..	..	..	..	46	....	......	....	..	0	..	..	..	..	......	E. H. Shepherd
Fort Leonard Wood	Pulaski	1,107	4	69.0[d]	......	95[e]	5	41[e]	15	4	14.19	......	2.45	8	0	12	12[d]	2[d]	12[d]	sw.	U. S. Army Medical Corps
Harrisonville	Cass	904	67	68.2	− 0.3	96	5†	40	30	70	8.18	+3.28	2.10	24	0	12	14	2	14	e.	John H. Patterson
Jefferson City	Cole	557	55	70.0	+ 0.7	99	4	43	15†	63	9.42	+5.19	2.29	12-13	0	11	6[a]	12[a]	11[a]	......	K. W. O. S. Radio Farm
Joplin	Jasper	1,008	23	72.3	+ 0.2	96	1	46	29	40	14.62	+10.70	4.95	24	0	13	14	8	8	s.	Empire Dist. Electric Co.
Lakeside	Miller	595	14	68.4	− 2.6	98	4	46	15†	14	9.86	+5.46	2.50	21-25	0	12	14	7	9	se.	W. S. Frame
Lamar	Barton	980	57	68.8	− 2.0	97	4	43	30	64	10.05	+5.50	2.38	24-25	0	12	16	3	11	sw.	Mrs. Marie Mann
Lebanon	Laclede	1,265	57	68.4	− 1.0	98	4	44	30	58	15.03	+10.54	3.15	25	0	16	10	6	14	sw.	Mrs. Rosa E. Montelius
Lexington	Lafayette	688	60	69.7	+ 0.9	100	5	42	29	61	7.63	+2.86	1.70	28	0	14	13	11	6	s.	Tilton Davis
Lockwood	Dade	1,078	39	71.4	+ 0.5	100	4	45	29	49	11.95	+7.17	2.43	12-13†	0	14	14	9	7	se.	Hubert A. Nieman
Marshall	Saline	779	58	71.2	+ 2.4	102	5	42	29	55	11.38	+5.88	1.91	21-22	0	15	9	12	9	s.	Thomas A. Reid
Mountain Grove	Wright	1,463	44	70.4	+ 1.5	98	1	45	15	48	9.01	+4.95	1.92	24-25	0	16	12	8	10	se.	Mo. Fruit Exp. Station
Mount Vernon	Lawrence	1,174	33	69.8	− 0.7	101	4	44	14†	45	10.54	+6.70	3.23	23-24	0	15	12	7	11	s.	James C. Williamson
Neosho	Newton	1,011	58	71.7	+ 1.2	97	4†	43	15†	62	16.12	+11.83	6.17	24	0	13	10	11	9	sw.	U. S. Fisheries Station
Nevada	Vernon	862	52	71.9	+ 2.4	101	4	45	29	53	10.18	+5.87	2.62	24	0	14	16	1	13	sw.	Henry Kraft
Ozark Beach	Taney	700	5	70.7	......	99	1	46	15	20	7.28	+4.09	1.65	24-25	0	12	9	6	15	nw.	Empire District Elec. Co.
Sedalia	Pettis	910	32	70.4	+ 1.2	98	4	43	29	34	10.83	+5.93	3.45	21-22	0	15	15	3	12	sw.	Dr. J. E. Cannaday
Seligman	Barry	1,542	44	70.8	+ 1.2	96	4	48	15†	42	10.68	+7.00	2.53	24-25	0	11	15	9	6	s.	Floyd E. Fawver
Seymour 3½ miles NE	Webster	1,642	39	67.4	− 1.4	93	1†	41	15†	39	9.92	+5.90	1.69	12-13	0	16	16	3	11	s.	A. L. Hanley
Springfield...4 mi. NW	Greene	1,301	57	69.4	+ 1.0	96	1	46	29	57	9.46	+5.94	2.94	23-24	0	15	12	3	15	s.	U. S. Weather Bureau
Sweet Springs	Saline	700	4	67.8	......	100	4	43	29	4	11.82	......	3.19	21-22	0	16	9[a]	12[a]	8[a]	s.	H. F. Nelson
Warrensburg	Johnson	878	58	71.6	+ 1.4	99	4†	42	29	65	9.24	+4.46	2.82	21	0	16	14	3	13	sw.	Central Teachers College
Warsaw	Benton	687	44	72.2	+ 1.7	101	4	44	29	50	11.19	+6.16	2.60	24-25	0	13	13	8	9	sw.	Dora B. Johnson
Wasola	Ozark	1,294	4	69.2	......	97	1	46	29	5	9.76	......	2.34	12-13	0	15	12	6	12	s.	A. W. Pinckney
Division means	**and extremes**	.....	..	69.9	+ 0.3	103	4	40	30	..	10.07	+5.74	6.17	24	0	14	12	7	11	s.	
Southeastern Division																					
Advance.... ¼ mile W	Stoddard	354	8	69.9	......	95	9	49	11†	8	8.62	......	3.53	24-25	0	16	9	5	16	s.	U. S. Weather Bureau
Arcadia	Iron	926	64	69.4	+ 1.8	97	1	46	17†	67	8.46	+4.48	2.63	12-13	0	12	11	4	15	e.	Arcadia College
Birch Tree... ½ mile E	Shannon	1,000	50	70.2	+ 0.4	95	1	47	11	51	8.78	+5.10	3.30	12-13	0	13	12	9	9	se.	R. C. Moger
Black.......9 miles NW	Iron	1,000	52	68.3	+ 0.5	96	1	42	17	52	10.05	+6.19	3.03	12-13	0	15	12	7	11	sw	Claude Volner
Campbell	Dunklin	314	19	72.8[a]	+ 1.2	95[a]	9	50[a]	15	19	8.02	+4.15	2.00	25	0	11	12[a]	11[a]	6[a]	s.	Mrs. Ruth Christian
Caruthersville	Pemiscot	265	49	72.0	− 2.5	91	1†	52	15†	53	7.13	+3.92	2.25	10	0	12	17	3	10	s.	Victor T. Malloure
Crystal City	Jefferson	420	11	71.4	+ 2.5	96	1†	49	15†	11	6.81	+3.46	2.25	12-13	0	14	13	1	16	nw.	Richard K. Ragland
Doniphan	Ripley	341	41	71.7	+ 0.5	97	9	41	16	41	10.82	+7.21	2.30	12-13	0	13	16	10	4	n.	Boyce Lackey
Farmington	St. Francois	896	34	69.7	+ 0.1	95	1	47	16†	48	10.01	+6.21	2.07	21-22	0	13	8	7	15	s.	F. M. Karsch
Greenville	Wayne	460	36	71.6	+ 0.8	98	1	46	15	38	10.93	+7.61	2.51	24-25†	0	13	16	4	10	ne.	Beuford Shoemake
Jackson	Cape Girardeau	428	54	71.4	+ 1.3	94	9	49	16	55	12.19	+8.17	4.75	21	0	16	8	7	15	s.	John G. Putz
Koshkonong	Oregon	958	44	71.6[b]	+ 0.2	93	1†	45[d]	16	45	11.19	+7.55	2.37	12-13	0	14	14	6	10	se.	Mrs. Genevieve T. Smith
Licking...... 4 miles N	Texas	1,170	8	70.0	......	96	1†	42	15	8	11.26	+6.72	2.25	13	0	14	13	2	15	s.	U. S. Forestry Service
Malden....4 miles NNW	Dunklin	292	2	72.1	......	94	1†	51	15†	2	7.01	......	1.83	24-25	0	11	9	10	11	se.	U. S. Weather Bureau

Continued on next page

Climatological Data for September 1945—Continued from preceding page

Stations	Counties	Elevation, feet	Temperature, in degrees, Fahr.							Precipitation, in inches						Number of days				Prevailing direction of wind	Observers
			Length of record, years	Mean	Departure from the normal	Highest	Date	Lowest	Date	Length of record, years	Total	Departure from the normal	Greatest in 24 hours [4]	Date	Total snowfall, unmelted	With precip., .01 inch or more	Clear	Partly cloudy	Cloudy		
Southeastern Division—	*Concluded*																				
Marble Hill	Bollinger	532	50	71.2	+ 0.5	98	1	47	16	52	8.45	+4.57	2.44	23	0	12	12	10	8	se.	R. A. DeWitt
Poplar Bluff	Butler	339	40	71.9	+ 0.2	96	9	47	15	41	9.62	+5.73	3.74	24-25	0	9	13ª	11ª	5ª	se.	Joe Roehm
Rolla	Phelps	1,202	45	69.0	+ 0.3	96	4	45	29†	61	10.71	+6.57	2.32	21-22	0	15	8	14	8	sw.	Rolla School of Mines
St. Louis:																					
City Office		465	108	70.2	− 0.3	94	9	48	29	108	10.01	+6.55	4.11	12-13	0	17	11	4	15	s	**Section Center**
St. Louis Airport	St. Louis	556	8	69.0	+ 0.2	94	9	47	29	14	10.04	+5.67	4.61	13	0	17	8	7	15	s.	U. S. Weather Bureau
St. Louis University	St. Louis City	578	33	69.9	− 1.0	93	9	48	29	33	10.51	+6.75	3.78	13	0	17	14	5	11	se.	St. Louis University
Salem	Dent	1,206	41	69.9	+ 0.7	96	5	44	15	44	11.31	+7.43	2.40	21-22	0	15	12	6	12	s.	E. E. Martin
Sikeston	Scott	318	38	72.8	+ 1.7	96	1†	51	11†	48	6.16	+2.28	1.80	24-25	0	14	8	16	6	se.	Mrs. Lucy W. Humphreys
Union ....1½ mi. SE	Franklin	520	7	70.2	......	98	9	46	15†	28	11.07	+6.88	2.57	21-22	0	13	15	4	11	e.	Cornelius Sieges
Vichy ....2 mi. NW	Maries	1,125	9	68.6	......	95	4	45	29	10	13.95	......	2.44	12-13	0	18	12	3	15	se.	Civil Aeronautics Adm.
Wappapello Dam	Butler	475	6	71.6	......	94	9	50	15	6	11.55	......	4.50	24-25	0	13	7	9	14	sw.	U. S. Engineer Office
Weingarten	St. Genevieve	833	4	71.1	......	96	4	48	17†	5	9.25	......	3.05	12-13	0	12	10	9	11	s.	William J. Miller
West Plains	Howell	1,005	8	69.4	......	98	1	45	15	8	7.53	......	2.20	24-25	0	14	10	8	12	s.	U. S. Weather Bureau
Willow Springs 500 ft E	Howell	1,238	4	69.6	......	96	1	43	15	38	5.45	+1.37	1.94	24	0	10	16	3	11	s.	Allen Frazee
Cairo, Ill.	Alexander, Ill.	314	73	72.8	+ 0.3	93	9	54	16	74	6.30	+3.41	3.19	24-25	0	15	8	11	11	ne.	U. S. Weather Bureau
Division means	**and extremes**	.....	..	**70.7**	**+ 0.5**	**98**	**1†**	**41**	**16**	..	**9.49**	**+5.81**	**6.76**	**24-25**	**0**	**14**	**12**	**7**	**11**	**s.**	
State means	**and extremes**	.....	..	**69.4**	**+ 0.1**	**103**	**4**	**36**	**29**	..	**9.46**	**+5.38**	**6.76**	**24-25**	**0**	**14**	**12**	**7**	**11**	**s.**	

The departures from normal temperature are computed from the averages of the entire period for stations having 10 or more years of record. Departures of precipitation for stations with 15 years or more of record are computed from a normal or "standard mean", adjusted to a uniform 35-year period; for stations of 10 to 14 years the means for the period of record are used. The normal may be found by adding the departures when minus (−) or subtracting when plus (+). Figures and letters following stations indicate distance in miles and direction of station from the city Post Office, unless otherwise indicated. T. Trace or 0.005 inch or less. ª, ᵇ, ᶜ, etc., number of days missing; for example, ᵇ, indicates two days missing. Italics data interpolated. § Partly interpolated. † And other dates. ‡ Received too late to be included in means and summaries. [4] Best available used for stations not equipped with recorders. Post office address of: Altona is Adrian; Crane Mountain is Arcadia; East End is Goodland; Eastwood Lookout is Van Buren; Ellsinore Lookout is Mill Spring; Hailey is Cassville; High Lookout is Birch Tree; Macedonia Lookout is Doniphan; Perry is Center; Pilot Knob is Ironton; Pineview Lookout is Duke; Sugar Camp Lookout is Cassville; Wilderness Lookout is Lampe.

Continued from page 65

TEMPERATURE

The monthly mean for the State, 95 stations reporting, was 69.4°, or 0.1° warmer than the 58-year September average. The highest monthly mean was 72.8° at Campbell and Sikeston, and the lowest was 65.0° at Unionville. The highest reported was 103° at Clinton on the 4th, and the lowest was 36° at Grant City on the 29th.

PRECIPITATION

The average for the State, 212 stations reporting, was 9.46 inches, or 5.38 inches more than the 58-year September average. The greatest monthly amount was 18.36 inches at Buffalo, and the least was 3.59 inches at Tarkio. The greatest amount reported in 24 hours was 6.76 inches, at Bloomfield, on the 24-25th. The average number of days with 0.01 inch, or more, was 14. There was no snowfall anywhere in the State.

MISCELLANEOUS PHENOMENA

Earthquake.—On 23d; rather strong shock felt at Caruthersville and vicinity.

Floods.—In Meramec River, at Pacific, on 28th. In Mississippi River, at Louisiana, on 7-12th, 23d, 25-26th, 29-30th.

Fogs.—Heavy, 9th, 15th, 18th, 21st, 25th, 26th, 27th, 28th, 30th.

Hail.—Light, 9th at Maryville; 21st at Amity, Auxvasse, near Columbia, Maryville, Sedalia, Warrenton; 26th at Kansas City University.

Windstorms.—No damaging windstorms reported.

ERRATA

July 1945, page 49: Relative humidity for St. Louis Airport at 12:30 a. m., should be 77. Page 51: Mean temperature and departure at St. Louis Airport should be 76.0 and −1.8, respectively.

August 1945, page 58: Mean temperature and departure at Springfield should be 76.6 and +1.6, respectively. Page 61: Precipitation on 12th at Owensville should be blank; total should 2.92. Page 63: Maximum temperature on 26th at Springfield should be 88; mean maximum and mean minimum should be 87.6 and 65.5, respectively.

Daily Precipitation for September 1945

Stations	Drainage basins	Day of month																															
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	..	Total
Northern Division																																	
Albany	Grand	....	....	....	....	....	....	....	.03	1.14	.04	....	.25	....	.13	....	....	....	....	.04	....	.78	1.40	....	....	.05	.41	.07	.88	....	1.37	....	6.59
Amity	...do	.03	....	....	....	....	....	....	....	.92	.04	....	.26	.26	....	....	....	....	T.	.13	....	1.16	.58	.21	.04	.13	.57	.11	.86	T.	1.39	....	6.69
Auxvasse	Missouri	....	....	....	....	....	....	.03	.58	....	.71	....	.82	2.03	1.55	....	....	....	....	....	....	1.88	2.14	.13	1.10	.12	....	.49	1.40	.02	.03	....	13.03
Bethany	Grand	....	....	....	....	....	....	T.	T.	.70	.08	....	.20	....	.28	....	....	....	....	.10	....	.60	1.37	.45	.06	.08	.30	.05	.60	....	1.40	....	6.27
Bowling Green[2]	Mississippi	....	....	....	....	....	....	....	....	....	.70	....	....	1.49	2.16	.19	....	....	....	....	.25	....	1.27	1.30	.48	.36	....	....	.32	1.01	....	....	9.53
Brookfield[2]	Grand	....	....	....	....	....	....	....	.60	....	2.09	....	.10	.50	....	1.00	....	....	....	....	....	....	1.85	....	.65	.03	.40	....	1.10	....	.20	....	8.52
Browning.....3 mi. NE	...do	....	....	T.	T.	....	....	.16	....	1.02	.43	....	.17	.10	.60	....	....	....	T.	T.	....	.95	.85	.16	.54	.08	.48	.10	1.26	T	.38	....	7.28
Brunswick[2]	...do	....	....	....	....	....	....	....	.18	....	.43	....	.23	.62	1.63	.03	....	....	....	....	T.	....	1.27	.50	.72	.22	.20	.15	1.70	.08	.22	....	8.18
Canton, Lock No. 20[2]	Mississippi	....	....	....	....	....	....	....	.33	T	.54	....	.07	.26	2.00	.35	....	....	....	....	.22	....	1.05	.21	.73	.06	T.	.11	.47	1.16	.12	....	7.68
Centralia[2]	...do	....	....	....	....	....	....	....	.02	....	.76	....	.13	1.29	1.94	.08	....	....	....	....	....	....	2.57	1.70	.53	.46	....	....	.20	.87	...	....	10.55
Chillicothe[2]......(A)	Grand	....	....	....	....	....	....	....	T.	....	1.15	....	.16	.85	.47	....	....	....	....	....	....	....	2.66	.24	.25	T.	.33	.51	1.23	T	.15	....	8.00
Chillicothe[2]......(B)	...do	....	....	....	....	....	....	....	.63	....	1.18	....	.18	.65	.72	....	....	....	T.	....	T.	....	2.61	.34	.26	....	....	.79	1.40	.02	.10	....	8.88
Clifton Hill	Chariton	....	....	....	....	....	....	.12	....	.02	.57	....	.60	.58	1.12	....	....	....	....	.01	....	1.33	1.30	.16	1.17	.04	.22	.96	1.46	.05	.34	....	10.05
Columbia[1, 5]	Missouri	....	....	....	....	....	....	.06	.11	.43	.15	.02	1.09	3.40	.12	....	....	....	....	T.	....	3.57	1.30	.06	1.20	.15	.02	.13	1.39	.04	.10	....	13.34
Columbia ...9 mi. WNW	...do	....	....	....	....	....	....	.04	.26	....	.96	....	1.05	1.64	.80	....	....	....	....	T.	....	2.42	1.41	....	1.08	.16	.03	.02	1.00	T.	.04	....	10.91
Conception	...do	....	....	....	....	....	....	....	....	.82	....	....	.61	.05	....	.06	....	....	....	.22	....	1.37	.83	....	.29	.17	.50	.36	.94	....	1.85	....	8.07
Edgerton	...do	....	....	....	....	....	....	....	....	*	.69	....	.35	....	.15	....	....	....	.03	....	....	.05	.96	....	.18	.05	.44	.16	1.17	....	1.11	....	5.34
Edina[2]	Mississippi	....	....	....	....	....	....	....	.34	....	.82	....	.15	.21	2.78	.10	....	....	....	....	....	....	1.26	.14	.55	T.	T.	.34	1.03	.11	.30	....	8.13
Elsberry S. C. S.[2]	...do	T.	....	....	....	....	....	....	....	.07	.93	....	.04	1.52	1.58	.05	....	....	....	....	.23	....	.85	1.01	.81	.35	T.	.09	.54	.55	.03	....	8.65
Fayette	Missouri	....	....	....	....	....	....	.05	.16	....	.51	....	1.36	.71	.76	....	....	....	....	T.	T	1.43	2.49	.04	.96	.10	.07	T	1.09	T.	.15	....	9.88
Fulton[2]	...do	....	....	....	....	....	....	....	.76	....	.83	....	.16	1.69	2.43	.07	....	....	....	....	....	T.	2.19	.66	.59	.76	T	....	.64	1.28	.07	....	12.13
Gallatin[2]	Grand	....	....	....	....	....	....	....	.30	....	1.07	....	.25	.22	.62	....	....	....	....	....	....	T.	1.75	.30	.09	.13	.22	T.	1.73	.02	.29	....	§6.99
Grant City	...do	....	....	....	....	....	....	....	.05	1.16	.12	.05	.35	.03	....	....	....	....	....	.13	....	.35	1.12	....	.45	.08	.48	.22	.77	....	1.77	....	7.13
Hannibal[1].......(A)	Mississippi	....	....	....	....	....	....	T.	.13	.90	.39	....	1.04	2.20	.98	....	....	....	....	.03	....	.87	1.01	.14	1.16	....	.03	.76	1.26	.01	.08	....	10.99
Hannibal[2].......(B)	...do	....	....	....	....	....	....	....	T.	T.	1.60	....	T	1.05	1.98	.30	....	....	....	....	.04	....	1.68	1.05	1.10	.10	....	T	.86	1.18	.05	....	11.59
Hermann[2]	Missouri	....	....	....	....	....	....	....	.10	....	.92	....	.06	1.30	2.10	.20	....	....	....	....	....	....	2.84	.53	.66	1.15	....	.10	.90	.80	.12	....	11.78
Kahoka[2]	Mississippi	....	....	....	....	....	....	....	.92	.86	....	....	.14	.04	2.45	.28	....	....	....	....	.16	....	.64	.24	.58	.03	.06	.18	.60	1.24	.14	....	8.56
Kansas City Airport[1, 5]	Missouri	....	....	....	....	....	....	.95	....	.32	....	.20	.22	.09	.03	....	....	T.	....	.01	....	.01	.89	.29	.63	T.	.67	.40	1.00	.02	.82	....	6.55
Kansas City University	...do	....	....	....	....	....	....	.16	....	.05	.02	....	.71	.01	.21	....	....	....	T.	T.	....	.01	.63	T.	1.02	.03	.79	T	1.59	.01	1.05	....	6.29
Kidder[2]	Grand	....	....	....	....	....	....	....	.04	....	.80	....	.29	.40	.06	....	....	....	....	....	.01	....	2.22	.25	.34	.09	.43	.05	1.50	.06	.41	....	6.98
King City	Missouri	....	....	....	....	....	....	....	.62	.81	....	....	....	.25	.15	....	....	....	....	.17	....	1.55	.82	....	....	T.	.60	.30	.66	....	1.20	....	7.13
Kirksville	Mississippi	....	....	....	....	....	....	.16	.10	.57	.83	....	.38	.20	1.96	....	....	....	....	.10	....	.76	.72	.37	.45	.49	.45	....	.99	T.	.64	....	9.17
Knoxville[3]	Missouri	....	....	....	....	....	....	1.13	....	.51	....	.25	.27	.45	.06	....	....	....	....	T.	....	T.	.59	T.	.43	T	.43	.08	1.20	T.	.65	....	6.05
LaBelle[2]	Mississippi	....	....	....	....	....	....	....	.90	....	1.00	....	.09	.75	2.00	.25	....	....	....	....	....	....	1.55	....	.71	.04	T.	.20	1.42	.35	.23	....	9.49
Lawson	Missouri	....	....	....	....	....	....	.97	....	.65	....	....	.58	.08	.34	....	....	....	T.	....	....	T.	.72	....	.42	.03	.62	....	1.28	....	1.98	....	7.67
Linneus[2]	Grand	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Louisiana ....(A)	Mississippi	....	....	....	....	....	....	....	.08	....	.45	....	.85	2.04	1.05	.04	....	....	....	....	.15	.45	1.55	....	.88	.02	....	.30	1.02	.02	.45	....	9.35
Louisiana.........(B)	...do	....	....	....	....	....	....	....	....	.18	.47	....	....	1.52	2.06	.04	....	....	....	....	.13	....	.79	1.32	.57	.35	....	....	.38	1.20	...	....	9.01
Lucerne[2]	Grand	....	....	....	....	....	....	....	.15	....	1.27	....	.30	*	.51	....	....	....	....	.10	....	....	.33	.11	*	*	1.10	....	.80	*	1.30	....	5.97
Macon[2]	Chariton	....	....	....	....	....	....	....	.37	....	.88	....	.05	.55	2.09	.03	....	....	....	....	.02	....	1.09	.27	.97	.02	.02	.16	2.03	.19	.41	....	9.15
Madison[2]	Mississippi	....	....	....	....	....	....	....	.20	....	1.50	....	*	1.15	2.14	.05	....	....	....	....	....	....	2.06	.32	1.10	.15	....	....	.70	.32	.05	....	9.74
Martinsburg[2]	Missouri	....	....	....	....	....	....	....	.18	.27	1.21	....	.10	1.52	1.63	.19	....	....	....	....	T.	....	1.92	2.28	.78	.46	T.	T.	.50	1.42	.05	....	12.51
Maryville	...do	....	....	T.	....	....	....	....	....	.88	....	....	.22	.40	....	....	....	.02	T.	.06	....	1.15	.28	....	.15	.10	.37	.16	.74	....	1.57	....	6.10
Memphis[2]	Mississippi	T.	....	....	....	....	....	....	.10	....	1.35	....	.18	.08	1.66	.17	....	....	....	....	T.	....	.36	.40	.59	.13	.03	.44	.62	.46	.23	....	6.80
Mexico[2]	...do	....	....	....	....	....	....	....	.11	....	.97	....	.12	1.34	2.15	.10	....	....	....	....	....	....	3.35	1.30	.69	.50	....	....	.89	1.16	....	....	12.68
Milan[2]	Grand	....	....	....	....	....	....	....	....	....	1.05	....	.12	....	.87	....	....	....	....	....	....	....	1.45	.44	.57	.17	.11	.43	1.55	...	.41	....	7.17
Moberly[2] ....3½ mi. NE	Mississippi	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Monroe City	...do	....	....	....	....	....	....	....	.18	....	1.10	....	.82	1.31	1.42	.19	....	....	....	....	....	1.21	1.23	....	.74	....	.12	.27	.55	.97	.12	....	10.23
New Florence[3, 5] 1 mi SE	Missouri	....	....	....	....	....	....	.05	.09	.86	.48	....	.81	2.97	.26	....	....	....	....	T.	T.	3.90	1.04	.08	1.19	.24	.01	.73	.58	.06	.27	....	13.62
Oregon	...do	....	....	....	....	....	....	....	....	.90	....	....	.37	.18	....	....	....	....	....	.25	....	.07	.54	....	....	.06	.34	.12	1.00	1.03	.60	....	5.46
Palmyra	Mississippi	....	....	....	....	....	....	.05	.05	....	.95	....	.70	2.00	1.16	....	....	....	....	....	....	1.80	1.50	.30	.30	....	.21	.40	1.60	....	.12	....	11.14
Paris[2]	...do	....	....	....	....	....	....	....	.13	....	1.39	....	.04	.77	2.17	.12	....	....	....	....	....	....	2.25	.53	.78	.14	T.	.07	.21	.89	.14	....	9.63
Perry ....1 mile E	...do	....	....	....	....	....	....	....	.07	....	1.05	....	.55	1.75	1.37	....	....	....	....	....	....	2.10	1.65	.17	.85	....	....	.30	1.20	....	...	....	11.06
Philadelphia	...do	....	....	....	....	....	....	.40	.10	.50	.80	....	.95	1.00	1.95	....	....	....	....	.12	....	1.50	.75	.20	.65	...	.16	.29	1.55	....	.50	....	11.42
St, Charles[2] .....(A)	Missouri	....	....	....	....	....	....	....	.06	.15	.66	....	....	1.91	2.27	.03	....	....	....	....	T.	*	1.61	....	.70	.33	T.	.15	1.30	.15	.12	....	9.44
St. Charles[2] ......(B)	...do	....	....	....	....	....	....	....	.03	.14	.69	....	....	1.67	2.78	.03	....	....	....	....	T.	T.	1.75	.09	.53	.49	....	.08	1.35	.24	.09	...	9.96
St. Joseph[1, 5]	...do	....	....	....	....	....	....	.01	..	1.10	....	.29	.11	....	.01	....	....	....	....	.15	....	.50	.44	T.	.02	.04	.39	.34	.79	.01	1.15	....	5.35
Saverton, Lock No. 22[2]	Mississippi	....	....	....	....	....	....	....	T.	.35	.52	....	.01	1.35	2.07	.04	....	....	....	....	.18	T.	1.02	.80	.82	.19	....	.05	.33	1.46	T.	....	9.19
Shelbina	...do	....	....	....	....	....	....	....	.25	....	.82	....	.67	.71	1.35	....	....	....	....	T.	....	.87	.76	.09	.82	....	....	.15	1.17	T.	.16	....	7.82
Shelbyville[2]	...do	....	....	....	....	....	....	....	.57	....	1.08	....	....	.73	1.93	....	....	....	....	....	....	....	1.48	.53	.63	....	....	.24	.28	1.38	.14	....	8.99
Steffenville	...do	....	....	....	....	....	....	.17	.10	....	.98	....	.44	.69	1.91	....	....	....	....	.28	....	1.48	.78	.19	.32	....	.15	.28	1.56	....	.19	....	9.52
Tarkio[3]	Missouri	....	....	T.	....	....	....	....	....	.57	....	.24	T.	T.	....	....	T.	.06	T	.02	....	.36	T	.36	.20	T.	.07	.20	.42	T.	1.09	....	3.59
Trenton[2]	Grand	....	....	....	....	....	....	....	.09	....	1.09	....	T.	.17	.73	....	....	....	T.	.10	....	....	1.85	.29	.04	.43	.56	T.	1.72	.01	.46	....	7.54
Troy[2]	Mississippi	....	....	....	....	....	....	....	T.	.20	.70	....	....	1.53	2.62	.10	....	....	....	....	....	....	1.75	1.20	.76	.70	....	.10	.70	.68	.05	....	11.09
Unionville[2]	Chariton	....	....	....	....	....	....	....	.14	....	.92	....	.11	.20	.80	.05	....	....	....	....	.10	....	1.05	.06	.31	.24	.34	.46	1.30	.02	.36	....	6.46
Vandalia	Mississippi	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Warrenton	...do	....	....	....	....	....	....	....	.26	....	.55	...	.47	2.51	1.42	T.	....	....	....	....	....	3.02	.97	....	1.23	.45	.11	.83	.71	.13	.31	....	12.97
Keokuk, Iowa[1]	...do	....	....	....	T.	....	....	.21	.10	.63	.03	T.	.17	1.08	.72	....	....	....	....	.11	....	1.00	.49	.17	.45	....	.11	.57	.92	....	.20	....	6.99
Southwestern Divis																																	
Altona[2]	Osage	....	....	....	....	....	....	....	.12	....	T.	....	.22	.37	.19	....	....	....	....	....	....	....	.42	....	1.45	1.05	....	...	1.96	.13	.17	....	6.08
Anderson[2] ...1½ mi. SW	Neosho	....	....	....	....	....	....	T	1.01	....	....	....	1.22	1.10	.02	....	....	....	....	....	....	....	...	....	1.90	4.38	.92	.18	.43	.87	.23	....	12.26
Appleton City	Osage	....	....	....	....	....	....	.05	1.00	...	.10	....	.55	....	.84	....	....	....	....	....	....	....	.30	....	1.98	.58	.05	....	.75	*	*	....	6.20
Ava Ranger Station[2]	White	....	....	....	....	....	.13	.49	....	....	.95	....	.52	1.56	.50	...	....	....	....	....	....	....	....	....	.63	2.05	.18	1.28	....	.60	.50	....	9.39
Bolivar	Osage	....	....	....	....	....	T.	.23	1.20	....	.01	....	.91	1.06	.23	....	....	....	....	....	....	....	4.43	....	3.05	.76	.07	.05	.56	.37	.14	....	13.07
Boonville[2] ......(A)	Missouri	....	....	....	....	....	....	....	.32	....	.90	....	.25	.83	1.92	.02	....	....	....	....	....	.40	2.50	1.28	.88	.63	.06	....	1.10	.20	.10	....	11.39
Boonville[2] ....(B)	...do	....	....	....	....	....	....	....	.27	....	1.00	....	.25	.84	1.65	....	....	....	....	....	....	....	2.92	1.36	.75	.73	.05	....	.81	.21	.04	....	10.91
Bradleyville[2]	White	....	....	....	....	....	....	.53	.37	T.	....	....	.40	1.10	1.15	....	....	....	....	....	....	....	...	....	....	2.00	.40	.40	.20	.60	1.20	....	8.35
Buffalo[2]	Osage	.05	....	....	....	....	....	....	3.20	....	.44	....	.31	.96	.90	.11	....	....	....	....	....	....	.96	3.80	2.49	3.60	....	....	.30	.84	.40	....	18.36
Butler[2]	...do	....	....	....	....	....	....	....	.10	....	.08	....	.30	.39	.27	....	....	....	....	....	....	....	.33	....	1.29	1.32	.07	....	1.62	.22	.42	....	6.41
Caplinger Mills[2]	...do	....	....	....	....	....	....	....	1.12	....	....	....	.28	1.04	.25	T.	....	....	....	....	....	....	1.70	T	.86	2.50	.06	....	.86	.12	.22	....	9.01
Carthage	Neosho	....	....	....	....	....	....	.36	....	....	....	....	1.78	.22	....	....	....	....	....	....	....	....	.72	.69	4.17	1.85	.33	.02	.86	.53	.13	....	11.66
Cassville[2]	White	....	....	....	....	....	....	....	.27	....	....	....	.48	.98	.16	.02	....	....	....	....	....	....	....	....	1.55	2.52	1.15	.19	.01	1.26	.47	....	9.06
Clinton[3]	Osage	....	....	....	....	....	....	.49	....	.50	....	.09	.92	.67	.04	....	....	....	....	....	....	.05	.57	T.	2.80	T.	.02	.14	.95	.23	.19	....	7.66
Concordia	Missouri	....	....	....	....	....	....	1.57	....	....	.89	....	.76	.52	.57	....	....	....	....	T.	....	.53	1.10	.02	1.97	.07	.30	.02	1.52	....	.53	....	10.37
Crocker	Osage	....	....	....	....	....	....	.27	.78	....	.13	....	.35	2.15	.90	....	....	....	....	....	....	1.50	2.25	....	1.56	1.07	.04	.73	.71	.38	.08	....	12.90
Eldon	Missouri	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Eldorado Springs	Osage	....	....	....	....	....	....	.16	.35	....	.05	....	.55	.55	.76	....	....	....	....	T.	....	....	1.07	....	2.64	1.22	.12	....	.72	.12	.21	....	8.52
Elijah[2]	White	.22	....	....	....	....	....	.36	.27	.61	.12	....	.28	1.76	.45	....	....	....	....	....	....	....	....	....	.20	2.36	.60	.26	....	.76	.19	....	8.44
Fort Leonard Wood[2]	Gasconade	....	....	....	....	....	....	T.	2.45	....	.82	....	.15	1.70	1.50	.10	....	....	....	....	....	....	1.52	*	1.90	2.05	T.	....	1.30	.70	...	....	14.19
Galena[2]	White	....	....	....	....	....	.21	.30	.29	.07	....	....	.20	1.16	.28	.02	....	....	....	....	....	....	....	....	1.19	1.65	.54	.36	.03	1.07	.45	....	7.82
Granby[2]	...do	....	....	....	....	....	....	....	.90	....	....	....	1.00	1.35	.15	....	....	....	....	....	....	....	.48	....	3.35	3.85	....	.65	.75	.85	.27	....	13.60
Hailey	...do	....	....	....	....	....	....	.52	....	....	....	....	1.12	.34	....	....	....	....	....	....	....	....	....	....	2.12	1.56	1.66	.23	.81	1.01	.56	....	9.93
Harrisonville[2]	Osage	....	....	....	....	....	....	....	.67	....	....	....	.29	.34	.51	....	....	....	....	....	....	....	.89	....	2.10	.82	.52	.02	1.73	.08	.21	....	8.18
Jefferson City[2]...(A)	Missouri	....	....	....	....	....	....	....	.49	....	.75	....	.81	2.29	.95	....	....	....	....	....	....	*	1.94	....	.81	.48	....	....	.74	.15	.01	....	9.42
Jefferson City[2]...(B)	...do	....	....	....	....	....	....	T.	.52	....	.74	....	.06	1.40	2.31	.07	T.	....	....	....	....	T.	1.30	.67	1.07	1.59	....	...	.27	.70	.16	....	10.86
Joplin[1]	Neosho	....	....	....	....	....	....	3.68	....	.25	....	.07	2.55	.06	....	....	....	....	....	....	....	....	.82	.73	4.95	.15	....	.21	.72	.40	.03	....	14.62
Lakeside[2, 5]	Osage	....	....	....	....	....	....	....	.05	....	.32	....	.16	1.36	1.47	....	....	....	....	....	....	T.	2.16	.23	.70	2.50	....	....	.31	.40	.20	....	9.86
Lamar[2]	Neosho	....	....	....	....	....	....	....	.35	....	.25	....	.35	1.90	....	....	....	....	....	....	....	....	.45	1.78	1.71	2.38	.15	....	.13	.20	.40	....	10.05

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Stations	Drainage-basins	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	..	Total
Southwestern Division—Concluded																																	
Lebanon[2]	Osage	....	....	....	....	....	....	.07	1.60	.23	.43	....	.23	1.05	1.62	.02	....	....	....	....	....	....	2.96	1.25	.85	3.15	.02	....	.50	.79	.26	....	15.03
Lexington[2]	Missouri	....	....	....	....	....	....	....	.08	....	1.20	....	.47	.43	1.10	.02	....	....	....	....	....	....	.35	.55	.65	.25	.55	....	1.70	.08	.20	....	7.63
Lockwood	Osage	....	....	....	....	....	....	.01	.20	....	.40	....	1.60	2.43	.10	....	....	....	....	....	....	....	2.43	....	2.20	1.22	.15	.06	.90	.15	.10	....	11.95
Mansfield[2]	White	....	....	....	....	....	....	....	.49	.51	.51	....	.33	1.83	1.03	.02	....	....	....	....	....	....	....	....	.55	1.91	.24	.45	1.21	.30	.42	....	9.80
Marshall	Missouri	....	....	....	....	....	....	.80	.01	....	1.04	....	1.00	.54	1.14	....	....	....	....	T.	T.	.40	1.91	1.01	1.30	.10	.30	T.	1.50	.01	.32	....	11.38
Marshfield[2]	White	....	....	....	....	....	....	.03	.45	.15	.11	....	.24	.98	1.17	.03	....	....	....	....	....	....	1.42	....	1.20	2.42	.07	....	.46	1.03	.26	....	10.02
Mountain Grove[2]	Gasconade	....	....	....	....	....	....	.39	.10	.44	.06	....	.20	1.46	1.38	.08	....	....	....	....	....	....	.57	....	.95	1.92	.05	.24	.24	.50	.43	....	9.01
Mount Vernon[2]	Neosho	.03	....	....	....	....	....	.03	....	....	.03	....	.90	1.35	.25	....	....	....	....	....	T.	....	.86	.50	3.23	1.31	.55	.10	.72	.63	.05	....	10.54
Neosho	do	.60	....	....	....	....	....	2.27	....	....	....	....	2.18	.06	.04	....	....	....	....	....	....	....	.40	....	6.17	1.40	.68	.07	1.00	.68	.57	....	16.12
Nevada	Osage	....	....	....	....	....	....	.04	.99	....	.03	....	.54	1.02	.15	....	....	....	....	....	....	....	1.18	.28	2.62	1.06	.56	T.	1.01	.20	.50	....	10.18
Osceola[2]	do	....	....	....	....	....	....	T.	.64	....	.36	....	.13	1.13	.58	....	....	....	....	....	....	....	.66	*	.95	3.01	.03	....	.80	.20	.39	....	8.88
Ozark[2]	White	....	....	....	....	....	....	.23	.37	T.	.05	....	.45	.91	.97	T.	....	....	....	....	....	....	....	....	.87	2.28	.17	.15	.07	.55	.42	....	7.49
Ozark Beach[2]	do	....	....	....	....	....	....	.44	.33	....	....	....	.26	.92	.58	....	....	....	....	....	....	....	....	....	.76	1.65	.37	.73	.02	.45	.77	....	7.28
Pierce City[2]	Neosho	.08	....	....	....	....	....	.02	.43	....	....	....	....	1.52	.10	....	....	....	....	....	....	....	T.	....	1.20	4.60	.48	....	.95	....	.45	....	9.83
Pineview Lookout	White	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Pleasant Hill[2]	Osage	....	....	....	....	....	....	....	1.53	....	....	....	.28	.33	.44	T.	....	....	T.	....	.01	....	.72	.30	1.20	.98	.40	.02	2.07	.10	.22	....	8.60
Roby	Gascouade	.03	....	....	....	....	....	1.59	.05	.36	.25	....	.26	2.10	.37	....	....	....	....	....	....	.08	1.59	.01	2.00	.74	.13	.46	.21	.75	.17	....	11.15
St. Thomas[2]. 2¼ mi SW	Osage	....	....	....	....	....	....	....	1.15	T.	.58	....	.13	1.50	2.10	....	....	....	....	....	....	....	1.35	....	.96	2.33	....	....	.30	.81	.22	....	§11.43
Saunders Lookout[2]	White	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Sedalia	Missouri	....	....	....	....	....	....	.69	.14	....	.34	....	.85	.72	1.00	....	....	....	....	T.	....	.90	2.55	.04	1.72	.30	.03	.03	1.30	....	.22	....	10.83
Seligman[2]	Neosho	....	....	....	....	....	....	....	1.40	....	....	....	1.38	.99	.15	....	....	....	....	....	....	....	....	....	1.70	2.53	1.13	.28	.21	.72	.19	....	10.68
Seymour[2] ... 3½ mi. NE	White	....	....	....	....	....	....	.07	.65	1.27	.38	....	.15	1.54	1.07	.14	....	....	....	....	....	....	.40	....	1.32	1.48	.10	.05	.54	.58	.18	....	9.92
Shell Knob[2] ... 3 mi. SE	do	....	....	....	....	....	....	.65	.58	....	....	....	.15	.97	.28	....	....	....	....	....	....	....	....	....	1.30	1.52	.64	.40	.21	1.10	.08	....	7.88
Siloam Sprgs Lookout[2]	do	....	....	....	....	....	....	.52	.41	.42	.76	....	.52	2.42	.63	....	....	....	....	....	....	....	....	....	....	2.54	....	.30	....	....	....	....	8.52
Springfield[1,5] ... ½ mi. E	do	T.	....	....	....	....	T.	.37	.24	.24	T.	T.	1.19	.91	.01	....	....	....	....	....	....	T.	1.04	.79	2.78	.36	.10	.07	1.03	.31	.02	....	9.46
Stover[2]	Missouri	....	....	....	....	....	....	....	....	....	.30	....	.25	1.43	1.50	.01	....	....	....	....	....	....	1.65	.30	1.08	1.85	....	....	1.17	.16	.27	....	9.97
Swan Tower Lookout[2]	White	....	....	....	....	....	....	.55	.20	.40	.10	....	.35	1.10	1.20	T.	....	....	....	....	....	....	....	....	.50	1.70	.29	.70	.16	.55	.50	....	8.30
Sweet Springs	Missouri	....	....	....	....	....	....	.44	.05	....	1.62	....	1.15	.55	.81	....	....	....	....	.01	....	1.27	1.92	.05	1.99	.13	.22	T.	1.31	.02	.28	....	11.82
Tecumseh[2] ... ¼ mi. W	White	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Topaz[2]	do	....	....	....	....	....	....	.23	.87	.65	....	....	....	1.65	.63	....	....	....	....	....	....	....	....	....	.32	1.61	....	....	....	.65	.23	....	6.84
Vanzant[2] ... 3¾ mi. SE	do	.07	....	....	....	....	....	.36	1.04	1.42	.50	....	.32	1.06	.64	....	....	....	....	....	....	....	....	....	.41	1.79	.41	.11	.30	.12	.13	....	8.68
Warrensburg	Missouri	....	....	....	....	....	....	.91	.16	....	.19	....	.97	.32	.55	....	....	....	....	.02	....	.48	1.00	.01	2.82	.12	.08	.01	1.45	....	.15	....	9.24
Warsaw[2] (A)	Osage	....	....	....	....	....	....	.02	1.74	.72	....	....	.13	1.68	1.05	T.	....	....	....	....	T.	....	.54	.10	.90	2.60	T.	....	.92	.37	.42	....	11.19
Warsaw[2] (B)	do	....	....	....	....	....	....	....	1.06	....	1.01	....	1.60	.80	.35	....	....	....	....	....	....	....	.55	*	3.19	.30	....	.05	1.27	.41	.06	....	10.65
Wasola[2]	White	....	....	....	....	....	....	.33	.48	.80	.64	....	.30	2.34	.49	.01	....	....	....	....	....	....	....	....	.62	1.92	.24	.49	.08	.20	.82	....	9.76
Waverly[2]	Missouri	....	....	....	....	....	....	....	1.63	....	.71	....	.38	.58	.92	T.	....	....	....	....	....	....	.43	1.30	.50	.30	.20	T	1.70	.05	.11	....	8.81
Wilderness Lookout[2]	White	....	....	....	....	....	....	.45	.60	....	....	....	.27	.90	.22	....	....	....	....	....	....	....	....	....	.80	2.13	.37	.46	T.	.33	.43	....	6.96
Southeastern Division																																	
Advance[3] ... ¼ mile W	St. Francis	.01	....	....	....	....	.04	.05	.03	....	.59	....	.68	1.13	T.	....	....	....	....	.04	....	.64	T.	....	1.82	1.74	.54	.46	.01	.63	.21	....	8.62
Alton(1) ... 10 miles SE	Black	.20	....	....	....	....	....	.49	....	....	.15	....	.75	2.57	.08	....	....	....	....	....	....	....	....	....	.17	1.99	.64	....	1.49	.49	.62	....	9.64
Alton(2)[2] ... 7 miles NE	do	.05	.05	....	....	....	.25	....	....	....	.10	....	....	*	2.60	....	....	....	....	....	....	....	....	....	....	2.47	....	.53	1.51	.49	.29	....	8.34
Annapolis[2] ... 7 mi. W	do	....	.23	....	....	....	....	.23	.09	.60	1.02	....	....	2.21	.75	T.	....	....	....	....	....	....	.46	....	.01	1.74	.01	.33	.26	.67	.21	....	8.82
Arcadia[2]	St. Francis	....	.30	....	....	....	....	T.	.24	.36	.59	....	....	1.65	.98	....	....	....	....	....	....	....	1.36	....	....	1.55	....	.28	.25	.60	.30	....	8.46
Belleview[2]	Meramec	.26	.02	....	....	....	....	.35	.19	.80	1.39	....	T	1.35	1.74	.01	....	....	....	....	....	....	.76	....	.18	1.38	.02	.15	.35	.62	.35	....	9.92
Bernie[2]	St. Francis	....	....	....	....	....	....	....	....	....	1.00	.36	....	1.10	.31	T.	....	....	....	....	1.09	....	.61	....	....	1.97	.08	.66	.02	.09	.44	....	7.73
Birch Tree[2] ... ½ mile E	Black	.03	....	....	....	....	....	.18	1.02	.06	.12	....	....	3.30	.38	....	....	....	....	....	....	T	1.05	....	.05	1.70	....	.51	....	.23	.15	....	8.78
Black ... 9 miles NW	do	....	....	....	....	....	....	1.18	.20	....	1.05	....	.08	3.03	.05	....	....	....	....	....	....	.23	.82	....	.65	1.23	.20	.11	.69	.27	.26	....	10.05
Bloomfield[2]	St. Francis	[illegible]	....	....	....	....	....	....	.11	.12	.21	.23	....	.92	.59	.09	....	....	....	....	.29	....	3.68	....	....	6.72	.04	.44	.05	....	.81	....	14.33
Bunker[2] ... 4 miles NW	Black	.12	....	....	....	....	....	.47	.34	.09	1.02	.03	....	2.41	.97	.07	....	....	....	....	....	....	1.58	....	.55	1.60	.07	.35	.63	.81	.23	....	11.34
Campbell	St. Francis	T.	....	....	....	....	....	.33	T.	....	1.43	....	.35	.75	....	....	....	....	....	1.00	....	....	.35	....	....	2.00	.66	.05	....	.05	1.05	....	8.02
Cape Girardeau[2]	Mississippi	T.	T.	....	....	....	....	....	.76	.05	.18	.17	....	.72	.52	....	....	....	....	....	T.	....	2.92	....	....	4.30	....	.43	.28	.03	.40	....	10.76
Caruthersville[2] (A)	do	....	....	....	....	....	....	....	.76	.27	1.84	.41	....	.78	.05	....	....	....	....	....	.85	....	.05	....	....	1.00	.05	T.	....	.90	.17	....	7.13
Caruthersville[2] (B)	do	....	.01	....	....	....	....	.01	.75	.25	1.76	.48	....	.75	.04	....	....	....	....	....	.90	....	.09	....	....	1.00	.05	....	....	.87	.19	....	7.15
Centerville(1)[2]	Black	.15	....	....	....	....	....	.72	1.65	.03	.70	....	.15	2.40	1.42	.05	....	....	....	....	....	....	.53	....	....	1.47	....	.15	.25	.18	.40	....	10.25
Centerville(2)[2]	do	.11	.20	....	....	....	....	.49	1.40	.06	.84	....	....	2.38	1.61	.04	....	....	....	....	....	....	.30	....	.08	1.32	T.	.15	.40	.12	.23	....	9.73
Cook Station[2]	Meramec	....	....	....	....	....	....	.33	.40	....	.90	....	....	1.90	1.00	....	....	....	....	....	....	....	1.70	....	.93	1.51	....	.18	....	.94	.44	....	10.23
Crane Mountain[2]	St. Francis	.02	....	....	....	....	....	.57	.81	....	.89	....	.10	2.00	1.10	....	....	....	....	....	....	....	.28	....	....	2.09	....	.36	1.06	.75	.42	....	10.45
Crystal City	Mississippi	.13	....	....	....	....	....	.01	.25	....	.30	....	....	2.25	.91	....	....	....	....	....	....	....	.88	....	.11	.43	.40	.17	.41	.37	.22	....	6.84
Cuba	Meramec	....	....	....	....	....	....	.36	....	....	1.02	....	.12	2.42	.42	....	....	....	....	....	.02	.55	1.84	....	1.74	.58	.21	.80	.18	.21	.09	....	10.56
Deering[2]	St. Francis	T.	....	....	....	....	....	....	.42	1.71	.31	.19	T.	....	....	....	....	....	....	T.	.21	T.	....	....	....	1.52	....	....	....	1.05	.19	....	5.60
De Soto[2]	Mississippi	....	....	....	....	....	....	....	.08	.03	.30	....	.02	1.81	1.52	.01	....	....	....	....	....	....	1.02	....	.14	.60	....	.24	.28	.60	.38	....	7.03
Dexter[2]	St. Francis	....	....	....	....	....	....	.12	....	.07	.52	.23	....	.94	.45	.05	....	....	....	....	.40	....	1.30	....	....	4.75	.05	.40	.07	....	.50	....	9.85
Doniphan(1)	Black	1.02	....	....	....	....	....	.56	....	....	.76	....	.53	2.30	....	....	....	....	....	.12	....	....	.41	....	.80	2.10	.55	....	.41	.11	1.15	....	10.82
Doniphan(2)[2]	do	....	.85	....	....	....	....	.22	.08	....	.66	.11	....	1.98	.72	....	....	....	....	....	....	....	.20	....	....	2.44	.06	.45	.05	.75	.06	....	8.63
East End[2]	Meramec	.16	....	....	....	....	....	.25	.23	.28	....	.50	.10	2.40	1.30	.10	....	....	....	....	....	....	1.07	....	.37	1.19	....	.33	....	.11	.20	....	8.59
Eastwood Lookout[2]	Black	.60	....	....	....	....	....	.20	.05	....	.14	....	.20	2.53	.92	....	....	....	....	....	....	.55	....	....	....	2.38	....	.42	.51	.51	.30	....	9.31
Ellington[2]	do	.13	.21	....	....	....	....	.11	.21	.10	.69	.02	T.	2.08	.93	.02	....	....	....	....	....	....	.67	....	T.	1.76	T	.29	.86	1.12	.11	....	9.31
Ellsinore Lookout[2]	do	....	.20	....	....	....	....	.10	.14	....	.40	....	....	.35	.24	....	....	....	....	....	....	....	.70	....	....	2.30	.34	....	1.40	1.60	.15	....	7.92
Farmington[2]	St. Francis	....	.01	....	....	....	....	....	.55	.50	.45	T	....	1.55	1.85	....	....	....	....	....	....	T.	2.07	....	.04	1.56	....	.23	.61	.43	.16	....	10.01
Fisk[2]	do	....	....	....	....	....	....	....	....	....	.86	T.	....	1.17	1.02	....	....	....	....	....	....	....	1.45	....	....	5.80	T.	.42	....	T.	.61	....	11.33
Fredericktown[2]	do	....	.04	....	....	....	....	T.	.12	.36	.90	....	....	1.39	.91	....	....	....	....	....	T.	....	2.00	....	....	1.95	....	.18	1.30	.98	.27	....	10.40
Gerald[2]	Meramec	....	....	....	....	....	....	....	.35	.29	.66	....	T.	1.85	2.50	T.	....	....	....	....	....	.05	1.55	.30	.57	1.30	....	.12	.83	.37	.65	....	11.39
Greenville(1)	St. Francis	.02	....	....	....	....	....	....	.49	....	1.03	....	.12	1.42	.04	....	....	....	....	....	....	....	1.55	....	.10	2.41	.31	....	2.51	.40	.53	....	10.93
Greenville[2] (2)	do	.05	.03	....	....	....	....	....	.54	.06	.92	.06	....	.68	.94	....	....	....	....	....	....	....	1.64	....	....	2.15	....	.27	2.45	.18	.37	....	10.34
High Lookout[2]	Black	.18	T.	....	....	....	....	.15	.87	.02	.06	....	.03	2.60	.30	....	....	....	....	....	....	....	.57	....	.11	2.31	T.	.67	.35	.17	.21	....	8.60
Jackson	Mississippi	.02	....	....	....	....	T.	.26	....	....	.32	....	.04	1.37	.15	....	....	....	....	.05	....	4.75	.28	....	.28	2.43	.45	.28	.03	1.05	.43	....	12.19
Jefferson Barracks[2]	Mississippi	T.	....	....	....	....	....	....	.20	.15	.43	....	....	1.45	1.87	.12	....	....	....	....	....	....	1.65	.06	.06	.37	....	.26	.66	.48	.17	....	7.93
Jerome[2]	Gasconade	....	....	....	....	....	....	....	1.84	....	.21	....	.16	1.34	1.06	.21	....	....	....	....	....	....	2.69	.66	1.06	1.49	....	.12	1.12	.71	.31	....	12.98
Koshkonong[2]	Black	.40	....	....	....	....	....	.69	2.03	....	.43	....	.06	2.37	.25	....	....	....	....	....	....	....	....	....	.01	1.74	.01	.79	1.65	.72	.04	....	11.19
Leeper[2]	do	.03	.51	....	....	....	....	.17	.20	.06	.27	.02	....	1.22	1.30	....	....	....	....	....	.05	....	1.07	....	.02	3.30	.02	.30	1.85	.97	.26	....	11.62
Licking(1) ... 4 miles N	Gasconade	....	....	....	....	....	....	.26	....	1.45	.74	....	.15	2.25	.47	....	....	....	....	....	....	....	1.55	T.	1.52	1.50	.18	.42	.15	.42	.20	....	11.26
Licking(2)[2]	do	.02	....	....	....	....	....	.15	.46	.43	.92	....	.03	1.57	1.00	.06	....	....	....	....	....	....	.75	....	.94	1.70	....	.13	.54	.30	.38	....	9.38
Macedonia Lookout[2]	Black	.45	....	....	....	....	....	.08	*.29*	....	*	*.56*	*	1.20	1.40	....	....	....	....	....	....	....	.15	....	....	1.55	....	.20	1.50	1.52	.85	....	§9.75
Malden[3] ... 4 miles NNW	Mississippi	T.	....	....	....	....	.16	T.	....	....	.75	....	.75	.29	T.	....	....	....	....	1.36	T.	.44	....	....	.73	1.10	.73	T.	T.	.10	.60	....	7.01
Marble Hill	do	....	....	....	....	....	....	....	.50	....	.44	....	.17	2.30	.11	....	....	....	....	....	....	....	.74	....	2.44	....	.27	.32	.24	.13	.79	....	8.45
Meramec Park[2]	Meramec	....	....	....	....	....	....	.04	.11	.15	.57	....	.05	2.09	1.54	.09	....	....	....	....	.04	.04	1.62	.16	.54	.78	....	.22	.53	.07	.15	....	8.79
Morehouse	Mississippi	....	.46	....	....	....	....	.05	....	....	.14	....	.12	1.09	T.	....	....	....	....	.30	....	....	.97	....	....	2.47	.66	....	....	.53	.35	....	7.14
Moselle[2]	Meramec	....	....	....	....	....	....	....	....	.32	.86	....	....	2.00	2.30	....	....	....	....	....	.12	1.34	1.04	.54	.57	....	....	.12	.39	.07	.17	....	9.84
New Madrid[2]	Mississippi	....	.27	....	....	....	....	....	T.	....	.41	.15	....	.83	.12	....	....	....	....	....	.43	....	1.26	....	T.	1.31	.12	....	....	.26	.42	....	5.58
Oates Tower[2]	Black	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Owensville[2]	Gasconade	....	....	....	....	....	....	....	.71	.50	.80	....	.04	1.34	2.01	.04	....	....	....	....	....	.10	.70	.27	.74	2.00	....	.10	.60	1.15	.32	....	11.42
Pacific[2]	Meramec	....	....	....	....	....	....	....	....	.49	*	....	....	3.19	1.47	.05	....	....	....	....	....	....	2.49	....	1.10	.46	....	.20	.49	*.12*	*.14*	....	§10.20
Parma[2]	St. Francis	....	....	....	....	....	....	T.	.27	....	.35	.43	....	.72	.40	....	....	....	....	....	.50	....	.85	....	....	1.90	.10	.30	.04	....	.50	....	6.36
Perryville	Mississippi	T.	....	....	....	....	....	....	.39	....	.59	....	....	.93	1.04	....	....	....	....	.12	....	*	.67	....	....	1.23	.33	*	.93	.08	.30	....	6.61
Pilot Knob[2] ... 2 mi. NE	St. Francis	....	....	....	....	....	....	.30	.56	....	.93	....	.03	2.00	.95	....	....	....	....	....	....	....	1.30	....	.10	....	1.08	.28	.18	.20	.80	....	8.71
Poplar Bluff[2] (A)	Black	....	....	....	....	....	....	.18	....	....	1.25	....	....	1.13	1.23	....	....	....	....	....	T	....	1.08	....	....	3.74	....	.28	.55	....	.18	....	9.62
Poplar Bluff[2] (B)	do	....	.03	....	....	....	....	.21	....	.05	1.17	.30	....	1.02	1.30	....	....	....	....	....	.10	....	.85	....	....	3.65	.02	.26	.45	....	.15	....	9.56
Puxico[2]	St. Francis	.05	.07	....	....	....	....	.10	.05	....	.50	.09	....	.93	1.24	T.	....	....	....	....	T.	....	2.75	....	....	3.38	.02	.45	.72	....	.20	....	10.55
Qulin[2]	do	....	....	....	....	....	....	.32	....	....	1.00	.36	....	1.01	.50	....	....	....	....	T.	.27	....	.21	....	....	3.88	.02	.45	.34	.34	.38	....	9.08
Reynolds[2]	Black	.45	....	....	....	....	....	.30	.27	....	.89	....	....	2.26	.78	....	....	....	....	....	....	....	.47	....	.49	1.04	....	.23	....	.39	.12	....	7.69
Richwoods[2]	Meramec	....	....	....	....	....	....	....	....	....	.70	....	.02	3.48	3.85	.85	....	....	....	....	....	....	2.23	....	.55	.61	....	.22	.50	.32	.35	....	13.68
Rolla[2]	do	....	....	....	....	....	....	.25	.87	....	.32	....	.15	1.70	.82	.05	....	....	....	....	....	T.	2.32	.50	.90	1.30	T.	.20	.38	.55	.40	....	10.71

Continued on next page

Daily Precipitation for September 1945—Continued from preceding page

Stations	Drainage-basins	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	..	Total
Southeastern Division —	*Concluded*																																
Round Spring[2]	Black	.04	....	....	....	....	....	.16	.91	....	.71	....	.62	1.27	.98	....	....	....	....	....	....	....	1.19	....	.32	1.19	....	.61	....	.10	....	....	8.10
St. Louis:																																	
City Office[1], [5]	Mississippi	T.	....	....	....	....	....	.16	.13	.33	.58	....	.35	3.77	.04	T.	....	....	....	T.	....	2.16	.06	.02	.22	.10	.09	1.06	.46	.06	.42	....	10.01
Airport[3], [5]	Missouri	T.	....	....	....	....	....	.32	.15	.31	.44	....	.34	4.61	.03	T.	....	....	....	T.	T.	1.14	.19	.08	.57	.06	.16	1.28	.07	.13	.16	....	10.04
St. Louis Univ.[1], [5]	Mississippi	.01	....	....	....	....	....	.10	.05	....	.78	....	.12	3.78	.05	....	....	....	....	....	....	2.67	.08	.02	.38	.10	.17	.61	.92	.13	.54	....	10.51
Washington Univ.[2]	...do	.05	....	....	....	....	....	....	....	.05	.87	....	....	*	3.98	.01	....	....	....	....	....	....	2.26	.01	.30	.32	....	.18	.65	.43	.07	....	9.18
Salem[2]	Meramec	.20	....	....	....	....	....	.10	.91	.29	.64	....	T.	1.92	1.18	.06	....	....	....	....	....	....	2.40	....	.63	1.59	....	.17	.52	.25	.45	....	11.31
Sikeston[2]	Mississippi	....	.21	....	....	....	....	.17	....	....	.07	.12	....	.91	.23	....	....	....	....	....	.16	....	1.24	.02	....	1.80	.02	.29	T.	.52	.40	....	6.16
Steelville[2] ...2½ mi. NE	Meramec	T.	....	....	....	....	....	.01	*	.40	1.62	....	1.83	.90	.01	....	....	....	....	....	....	1.88	.94	.88	.83	.57	.15	.58	.17	.23	.15	....	11.15
Summersville[2]	Black	....	....	....	....	....	....	.30	1.18	.66	.07	....	.10	2.60	.30	T.	....	....	....	....	....	....	.50	....	.40	1.73	.04	.39	.14	.23	.15	....	8.79
Union[2] ....1½ mi. SE	Meramec	....	....	....	....	....	....	....	....	.03	1.12	....	....	1.75	2.28	T.	....	....	....	....	....	.01	2.57	.16	.70	.54	....	.37	1.32	.08	.14	....	11.07
Valley Park[2]	....do	....	....	....	....	....	....	....	....	.10	.75	....	2.20	3.20	....	....	....	....	....	....	....	T.	2.05	.02	.50	.50	....	.21	1.29	.23	.18	....	11.23
Van Buren[2]	Black	.84	T.	....	....	....	....	.10	.11	....	.50	....	....	2.39	.80	T.	....	....	....	....	....	....	2.13	....	....	2.77	....	.35	1.25	.45	.28	....	11.97
Vichy[3] ..... 2 miles NW	Meramec	.02	....	....	....	....	....	.93	1.03	.83	.51	....	.72	2.20	.24	....	....	....	....	....	....	1.54	.74	.22	1.79	.75	.07	1.00	.77	.28	.31	....	13.95
Wappapello Dam[2]	St. Francis	.09	.13	....	....	....	....	.04	....	....	.88	.02	....	.79	1.05	.02	....	....	....	....	T.	....	2.69	....	....	4.50	T.	.31	.66	....	.37	....	11.55
Webster Groves	Mississippi	....	....	....	....	....	....	....	.16	....	.58	....	T.	3.79	.45	T.	....	....	....	....	....	1.40	.52	....	.46	.16	.18	.58	.45	.13	.34	....	9.20
Weingarten	....do	.20	....	....	....	....	....	....	1.20	....	.50	....	....	3.05	....	....	....	....	....	....	....	....	.87	....	.47	.82	.29	.25	.95	.15	.50	....	9.25
West Plains[3]	Black	.04	....	....	....	....	.14	.85	.02	....	.47	....	1.38	1.04	T.	....	....	....	....	T.	....	....	....	T.	.86	1.39	.83	.02	.26	.05	.18	....	7.53
Williamsville[2]	....do	....	....	....	....	....	....	....	1.37	....	.38	.11	....	1.05	1.26	....	....	....	....	....	....	....	2.96	....	....	2.29	.03	.53	1.27	1.12	.61	....	12.98
Willow Springs[2] 500 ft E	White	....	....	....	....	....	....	.48	.24	.15	....	....	....	1.19	.41	....	....	....	....	....	....	....	....	....	.47	1.94	....	.22	....	.25	.10	....	5.45
Winona Ranger Sta.[2]	Black	.02	T.	....	....	....	....	.10	.38	.30	.29	T.	T	2.60	.30	T.	....	....	....	....	....	....	.60	....	.05	2.85	T.	.43	.23	*	*	....	8.15
Zalma[2]	Mississippi	.05	T.	....	....	....	T.	.09	.21	....	.89	.02	....	.73	1.66	T.	....	....	....	....	....	....	.65	....	....	2.45	....	.25	.84	....	.34	....	8.18
Cairo, Ill.[1], [5]	....do	.57	....	....	....	....	....	T.	.02	....	.33	....	.21	.54	T.	T.	....	....	....	.18	T.	.21	.01	....	1.47	1.72	.11	.01	.37	.22	.33	....	6.30

Except as otherwise indicated, amounts are for 24 hours ending late in afternoon. [1] Midnight to midnight. [2] Measured in the morning; for the preceding 24 hours. [3] Data for 24 hours ending 12:30 A. M. (C. S. T.) of following day. [5] Recording gage. T. Trace or 0.005 inch or less. * Included in next measurement. // Wind-shield on gage. Italics data interpolated. § Partly interpolated. (A) Record from cooperative station gage. (B) Record from river station gage. ‡ Received too late to be included in means and extremes.

Daily Evaporation (inches), Mean Temperature (F°), and Wind Movement (miles) for September 1945

(See precipitation data in daily precipitation table)

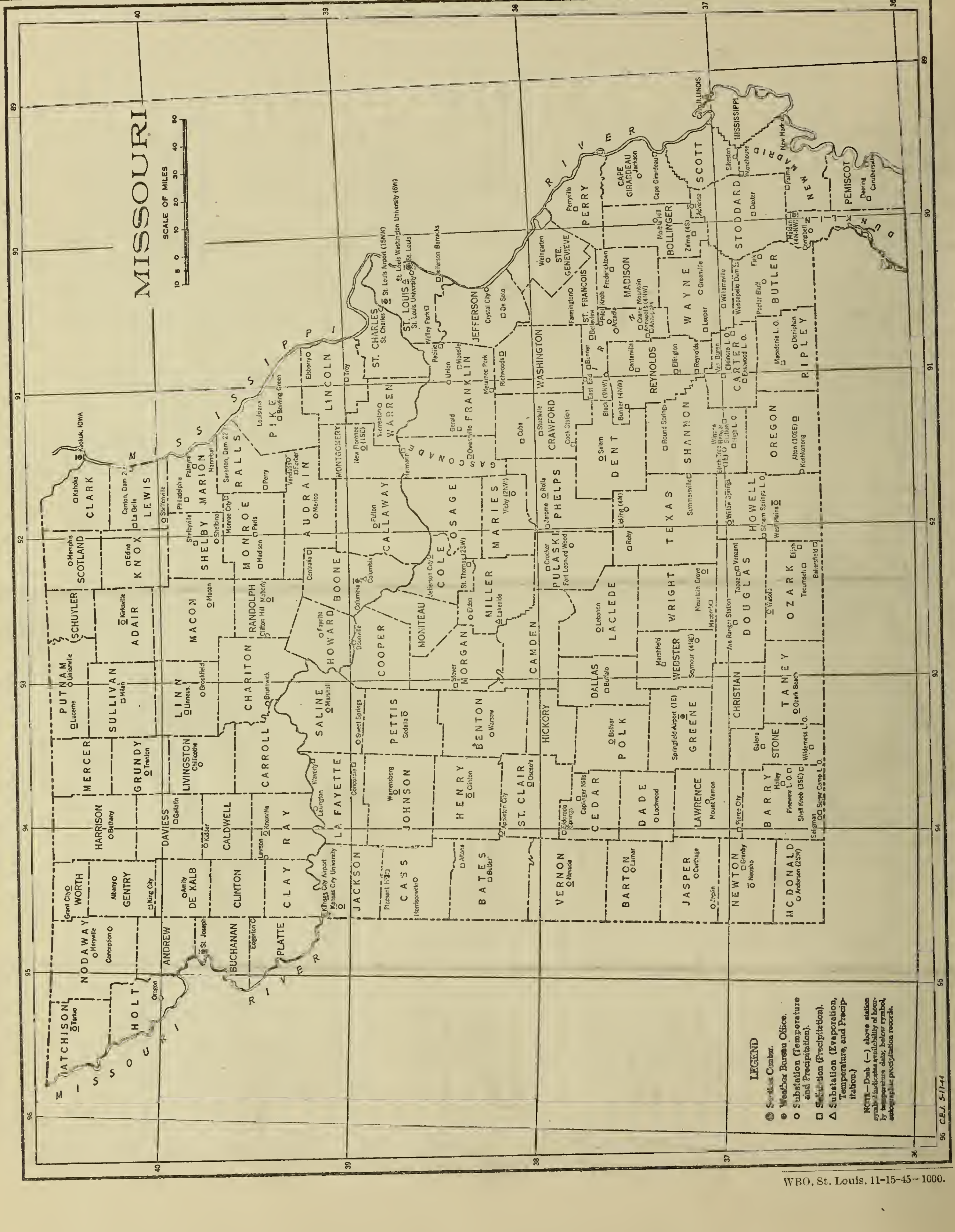
Station	Data	Day of month																															Monthly
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	..	
Columbia...... (Univ. of Mo. Hort. Exp. Sta. 9 mi. WNW.)	Evaporation	.447	.272	.259	.380	.310	.243	.137	.194	.339	.379	201	.108	.203	.110	.080	.181	.201	.210	.151	.140	....	.091	.193	.169	.022	.076	.012	.158	.059	.001	....	5.510
	Mean temperature	84	76	74	82	78	76	78	81	81	72	66	66	54	56	60	64	64	69	72	61	67	74	80	72	65	68	68	61	46	50	..	68.8
	Wind movement	82	13	40	71	29	9	12	45	68	80	30	26	101	155	11	42	52	58	73	18	35	107	164	104	16	50	19	52	89	61	..	1,712
Lakeside ..... (Osage Dam)	Evaporation	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.....
	Mean temperature	80	74	73	78	76	74	70	80	79	68	66	55	54	56	62	63	65	67	72	66	72	75	78	66	70	70	70	66	48	56	..	68.4
	Wind movement	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
St. Louis .... (Washington University)	Evaporation	.230	.273	.213	.182	.166	.188	.135	.189	.100	.224	.199	.159	....	....	.012	.109	.118	.083	.129	.130	.150	.112	.023	.125	.040	.106	.005	.033	.128	.026	....	3.843
	Mean temperature	84	75	73	78	79	78	81	80	83	71	67	62	57	56	62	64	64	70	72	68	64	73	78	69	72	66	69	72	50	56	..	69.8
	Wind movement	26	30	24	19	13	11	17	20	45	30	20	22	54	54	24	20	24	14	24	41	15	31	25	39	13	21	11	11	64	51	..	813

Observations taken at 8:00 a. m. except at 7:30 a. m. at Lakeside. For Lakeside and St. Louis (Washington University) descriptions see April 1932 and August 1938 reports, respectively. * Included in next measurement.

Daily Temperatures for September 1945

Stations		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	..	Mean
Northern Division																																	
Brunswick /	Maximum...	94	85	90	98	96	95	90	90	95	79	80	60	59	67	77	78	79	84	80	74	69	82	86	65	67	77	75	58	56	56	..	78.0
	Minimum ...	74	65	62	61	66	65	65	71	69	55	53	52	55	52	47	46	53	54	58	58	48	58	66	60	60	59	61	58	43	43	..	57.9
Chillicothe /	Maximum...	95	93	88	99	96	95	89	89	96	77	79	59	61	69	77	77	78	85	77	77	73	82	89	64	72	76	73	59	56	53	..	78.4
	Minimum ...	67	59	60	62	67	65	66	69	67	51	51	54	51	50	48	49	53	54	59	46	47	57	65	57	57	57	60	54	40	40	..	56.1
Columbia	Maximum...	93	85	91	97	97	91	85	93	96	79	80	62	55	60	77	77	79	84	83	75	76	82	88	68	71	77	75	69	53	58	..	78.5
	Minimum ...	69	66	62	71	68	64	72	71	68	57	52	55	52	50	46	55	55	60	58	50	62	65	67	63	61	63	65	46	44	48	..	59.5
Fayette	Maximum...	93	83	88	97	94	94	88	92	95	89	80	79	57	61	76	77	79	83	81	74	75	82	87	79	72	76	75	69	58	55	..	79.6
	Minimum ...	72	62	58	68	61	58	69	69	66	52	52	51	51	51	42	52	52	56	62	48	56	63	72	61	60	58	61	49	42	42	..	57.3
Grant City	Maximum...	91	89	87	96	95	94	88	85	82	74	70	67	66	73	77	77	75	83	74	77	79	82	89	84	74	71	71	57	55	50	..	77.7
	Minimum ...	78	61	69	75	70	64	67	66	63	47	53	59	58	52	48	52	57	60	55	43	49	62	60	54	55	54	56	42	36	41	..	56.9
Hannibal	Maximum...	88	80	83	98	93	91	89	90	96	76	76	62	56	53	73	72	74	80	84	73	66	79	87	75	68	74	70	66	53	54	..	76.0
	Minimum ...	72	60	57	69	64	62	70	70	66	55	54	54	51	49	47	54	50	56	57	48	54	62	71	58	59	58	64	43	42	44	..	57.3
Kansas City Airport	Maximum...	95	86	95	98	97	94	87	89	96	82	82	62	64	72	78	80	81	89	76	78	77	88	89	66	66	76	72	60	53	54	..	79.4
	Minimum ...	70	66	68	75	74	72	72	73	62	55	55	58	54	55	52	56	61	63	53	50	58	66	66	60	61	62	60	44	42	45	..	60 3
Kirksville	Maximum...	92	89	85	97	95	93	90	85	93	76	75	72	59	60	76	75	75	80	78	75	70	77	87	81	64	74	72	68	54	52	..	77.3
	Minimum ...	67	57	59	72	66	63	70	70	63	50	51	55	51	50	47	53	52	57	58	45	52	62	74	55	58	55	61	45	38	42	..	56.6
Lawson	Maximum...	96	87	97	99	99	97	87	90	96	79	82	67	62	72	79	80	81	86	74	77	80	87	88	75	70	76	76	68	54	52	..	80.4
	Minimum ...	63	61	61	70	68	63	67	68	66	48	48	57	50	50	47	62	55	58	58	44	56	64	73	58	59	57	56	42	40	43	..	57.1
Louisiana /	Maximum...	92	92	86	98	96	94	91	95	98	90	79	67	58	58	78	78	77	81	87	80	69	80	88	85	72	72	72	69	55	55	..	79.7
	Minimum ...	75	61	49	70	58	55	66	72	66	58	49	55	54	55	44	48	48	51	60	51	66	55	72	65	62	58	64	55	45	48	..	57.8
Macon /	Maximum...	95	86	89	96	95	96	89	88	95	78	78	58	57	59	78	71	78	82	78	75	68	80	86	66	66	76	74	59	57	55	..	76.9
	Minimum ...	69	58	58	60	65	58	59	68	70	51	51	52	53	50	46	48	51	52	57	46	46	56	64	58	57	56	59	58	40	40	..	55.2
Maryville	Maximum...	90	85	88	94	93	94	89	83	84	74	73	71	64	70	74	76	73	81	79	75	77	82	87	83	72	71	70	58	53	51	..	77.1
	Minimum ...	62	58	63	65	68	63	66	66	65	44	46	54	46	49	48	53	59	61	55	41	53	64	72	54	54	56	58	41	37	42	..	55.4
Mexico /	Maximum...	92	84	91	99	96	93	88	93	97	76	77	60	54	57	76	78	78	85	84	77	69	79	87	67	71	75	72	68	52	59	..	77.8
	Minimum ...	72	61	57	65	65	59	61	71	69	55	53	54	53	50	47	51	50	52	57	48	49	62	65	64	62	59	62	63	43	42	..	57.4
Moberly /	Maximum...	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
	Minimum ...	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
Oregon	Maximum...	93	84	94	95	95	93	92	87	89	77	78	77	65	71	79	80	76	86	78	77	79	87	89	81	72	73	71	60	54	50	..	79.4
	Minimum ...	63	58	64	70	70	78	70	66	63	47	48	55	48	50	49	55	60	62	55	45	53	63	72	54	55	55	58	40	38	41	..	56.8
St. Charles /	Maximum...	92	85	87	94	94	91	91	91	97	81	81	63	61	59	*73*	75	77	83	86	79	*69*	82	87	69	79	70	69	80	*52*	62	..	78.6
	Minimum ...	72	65	57	65	65	63	67	66	69	64	53	59	54	54	48	51	51	56	63	57	59	64	68	66	63	63	64	63	47	47	..	60.1
St. Joseph	Maximum...	92	85	94	96	97	94	89	87	94	76	77	64	65	72	77	80	78	86	72	78	80	87	89	66	75	75	70	57	54	50	..	78.5
	Minimum ...	66	63	65	74	74	68	71	68	56	51	51	58	49	52	49	55	59	62	50	46	54	65	62	58	57	59	57	42	40	43	..	57.5
Trenton	Maximum...	96	94	95	98	97	95	90	90	96	78	79	76	63	73	78	77	79	85	83	76	75	82	89	80	75	75	74	73	54	51	..	80.9
	Minimum ...	65	58	60	61	65	64	69	68	63	48	52	57	49	51	47	55	54	58	58	42	58	64	64	57	57	56	62	44	40	43	..	56.3
Unionville /	Maximum...	96	86	85	98	97	95	89	89	90	75	78	64	62	68	80	75	77	82	75	76	72	80	86	65	77	72	72	51	55	52	..	77.3
	Minimum ...	63	54	54	58	68	62	62	68	60	47	47	49	46	46	46	47	52	52	57	42	42	52	63	54	54	55	57	50	37	37	..	52.7
Warrenton	Maximum...	95	91	89	96	94	91	89	92	96	92	81	77	57	58	78	77	77	82	85	82	74	80	88	82	75	73	72	71	57	56	..	80.2
	Minimum ...	73	60	52	64	60	57	68	69	68	59	50	54	52	55	44	50	46	52	63	52	55	62	71	63	60	60	63	55	44	46	..	57.6
Keokuk, Iowa	Maximum...	89	79	82	95	92	92	89	86	91	76	73	60	57	56	74	71	74	80	83	72	68	78	84	69	66	74	72	60	55	52	..	75.0
	Minimum ...	68	61	57	73	68	64	72	69	62	55	53	56	52	48	48	56	51	59	55	49	54	63	69	57	58	57	59	44	42	44	..	57.4
Southwestern Division																																	
Clinton	Maximum...	97	90	101	103	101	95	86	94	97	84	87	63	59	72	80	79	85	89	81	75	90	90	82	68	75	79	74	67	49	60	..	81.7
	Minimum ...	68	65	61	69	62	62	69	70	64	56	50	56	53	52	47	51	55	59	56	50	59	66	65	61	61	63	63	47	44	45	..	58.3
Eldon	Maximum...	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
	Minimum ...	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
Harrisonville /	Maximum...	95	91	95	95	96	94	93	93	96	81	88	62	66	72	81	80	83	88	75	77	89	78	89	64	68	78	74	58	50	57	..	80.2
	Minimum ...	69	64	66	65	64	61	64	63	62	50	51	54	51	52	51	50	50	51	51	46	48	64	64	59	60	59	61	56	41	40	..	56.3
Jefferson City	Maximum...	95	91	92	99	98	93	90	92	95	90	83	75	57	59	78	79	79	85	96	79	80	87	89	89	74	76	73	73	54	58	..	81.9
	Minimum ...	76	60	54	65	64	57	69	70	68	58	50	56	50	51	43	44	51	54	63	51	55	65	74	63	61	62	63	54	43	47	..	58.0
Joplin	Maximum...	96	94	94	95	92	91	77	90	90	82	85	75	65	71	78	79	82	84	84	80	86	86	86	74	73	71	73	85	50	64	..	81.1
	Minimum ...	77	68	69	74	70	67	71	74	74	62	58	59	57	56	52	56	60	64	63	56	72	72	72	64	64	65	65	48	46	50	..	63.5
Lamar /	Maximum...	95	93	95	97	94	93	75	90	91	81	88	64	62	73	78	80	85	86	83	78	87	86	87	65	72	72	74	65	53	63	..	80.2
	Minimum ...	72	59	60	65	63	62	62	67	69	59	50	50	53	52	47	47	53	56	59	52	50	65	63	61	60	60	62	61	44	43	..	57.5
Lebanon /	Maximum...	93	89	94	98	95	94	82	89	91	78	84	64	53	62	76	77	80	83	85	78	89	87	85	65	73	76	77	71	50	65	..	79.4
	Minimum ...	69	60	60	61	61	61	62	68	69	59	51	52	52	50	46	46	49	49	56	55	54	63	64	63	61	61	65	63	45	44	..	57.3
Lexington /	Maximum...	97	90	97	100	99	96	90	92	97	82	82	60	62	62	89	80	82	86	81	77	78	86	89	64	68	80	76	63	56	..	..	[a]81.1
	Minimum ...	72	65	63	63	67	67	68	71	71	52	53	55	52	52	50	52	55	56	59	49	50	61	62	60	59	59	63	57	42	42	..	58.2
Marshall	Maximum...	100	96	92	98	102	98	96	90	96	92	88	80	58	68	74	75	78	83	82	83	76	90	86	89	75	80	89	88	72	58	..	84.4
	Minimum ...	72	64	61	72	65	63	70	70	70	53	54	55	52	51	46	53	53	58	61	49	49	49	71	69	61	60	62	47	42	44	..	57.9
Mountain Grove	Maximum...	98	95	91	92	93	88	81	88	91	87	85	81	60	59	76	74	78	80	85	83	88	87	84	78	76	76	77	77	67	61	..	81.2
	Minimum ...	73	58	60	63	66	69	69	68	67	59	53	56	49	48	45	51	54	55	63	58	68	62	70	60	60	63	65	62	46	46	..	59.5
Neosho	Maximum...	95	94	95	97	97	92	87	92	92	88	87	87	68	72	83	81	85	85	86	85	88	89	87	85	79	78	78	73	60	66	..	84.4
	Minimum ...	70	54	59	68	58	57	67	70	68	62	47	60	55	53	43	43	52	56	63	55	64	67	75	62	62	63	62	60	47	49	..	59.0
Nevada	Maximum...	98	94	100	101	98	99	94	92	94	88	92	89	64	75	82	83	86	88	84	82	87	88	88	80	80	75	74	68	51	61	..	84.5
	Minimum ...	74	60	62	70	62	61	70	68	68	57	48	60	55	53	46	53	55	59	65	50	62	64	64	61	61	64	62	51	45	47	..	59.2
Sedalia	Maximum...	95	94	93	98	97	92	90	89	94	92	82	80	57	68	76	78	80	85	82	75	87	88	86	86	70	79	75	74	50	58	..	81.7
	Minimum ...	72	64	63	71	66	63	70	69	71	54	52	56	52	51	47	54	53	59	63	48	60	63	73	62	60	61	63	49	43	45	..	59.2
Springfield . 4 mi. NW	Maximum...	96	93	93	95	91	88	80	90	90	78	86	69	56	67	75	75	79	83	85	78	88	86	85	70	72	74	77	70	50	66	..	79.5
	Minimum ...	68	61	64	66	62	64	69	70	66	58	53	56	50	51	48	54	54	58	60	56	68	67	65	61	60	64	64	49	46	48	..	59.3
Warrensburg	Maximum...	97	95	97	99	99	97	92	91	94	90	85	85	83	72	79	81	83	86	83	77	85	88	87	83	68	77	77	73	51	56	..	83.7
	Minimum ...	74	65	63	72	68	66	72	69	70	54	54	54	53	51	51	54	54	58	60	49	58	64	73	61	61	60	62	47	42	45	..	59.5
Southeastern Division																																	
Arcadia /	Maximum...	97	92	90	95	95	93	90	80	93	76	84	74	65	65	80	78	80	84	84	82	88	87	87	73	80	72	85	84	54	66	..	81.8
	Minimum ...	65	57	50	50	55	58	64	69	69	67	48	48	56	53	50	47	46	46	49	60	62	63	65	65	67	59	59	64	49	49	..	57.0
Birch Tree .. ½ mile E	Maximum...	95	90	88	89	90	85	78	85	89	82	84	71	61	61	75	74	78	81	84	82	91	85	86	79	77	75	83	82	68	63	..	80.4
	Minimum ...	67	58	55	54	59	66	70	67	64	65	47	57	51	51	56	59	54	60	64	62	64	64	72	64	62	60	66	61	50	49	..	59.9
Caruthersville /	Maximum...	91	87	84	88	89	90	87	88	91	75	78	67	68	62	69	85	76	83	81	83	86	88	88	86	75	82	87	86	63	78	..	81.4
	Minimum ...	68	64	63	64	65	66	64	66	69	68	56	55	61	53	52	52	56	56	57	66	66	68	68	71	64	65	65	69	61	56	..	62.5
Crystal City	Maximum...	96	91	87	96	95	93	92	87	96	85	87	80	65	58	79	77	80	84	86	85	84	88	88	86	82	77	84	84	67	59	..	83.3
	Minimum ...	74	61	52	59	60	61	72	70	68	64	50	51	55	55	49	50	49	51	61	61	59	65	73	68	64	61	61	64	49	50	..	59.6
Doniphan	Maximum...	93	92	87	93	92	89	90	88	97	89	86	75	64	64	77	77	80	86	88	83	90	92	92	85	81	80	89	89	70	65	..	84.1
	Minimum ...	67	57	55	54	59	68	69	68	66	69	49	55	55	52	54	41	48	49	58	64	63	64	70	68	63	60	66	63	53	53	..	59.3
Farmington	Maximum...	95	88	89	94	94	94	90	83	94	84	80	69	62	58	74	75	77	81	83	78	87	87	85	79	79	72	85	85	64	61	..	80.9
	Minimum ...	72	57	52	56	60	63	68	68	70	62	50	55	53	52	55	47	47	49	59	60	60	62	71	65	61	59	64	64	47	47	..	58.5
Jackson	Maximum...	91	86	87	91	92	92	90	85	94	91	81	81	67	67	72	76	77	83	83	76	89	83	88	86	77	76	87	87	76	67	..	82.6
	Minimum ...	70	59	57	55	55	67	73	69	70	66	50	56	60	52	52	49	50	52	61	65	64	63	71	72	64	59	64	65	50	50	..	60.3
Poplar Bluff	Maximum...	95	91	88	93	92	95	89	90	96	77	83	*83*	64	63	75	77	81	85	84	80	91	91	91	87	80	80	89	88	67	69	..	83.8
	Minimum ...	65	60	56	55	63	63	70	69	62	68	50	*59*	55	53	47	52	52	52	58	69	63	65	68	67	64	60	65	64	55	52	..	60.0
Rolla /	Maximum...	95	91	92	96	94	92	82	87	92	79	82	66	54	63	75	75	78	83	86	76	87	87	84	67	77	73	77	73	53	62	..	79.3
	Minimum ...	73	65	56	62	62	65	68	67	68	58	52	58	52	49	47	50	50	51	63	55	60	65	63	62	60	63	64	62	45	45	..	58.7
St. Louis	Maximum...	88	81	86	94	91	88	89	88	94	77	78	69	62	59	74	73	76	81	83	76	70	81	86	72	77	70	71	84	53	59	..	77.7
	Minimum ...	79	67	62	68	70	71	74	72	68	62	58	56	53	55	52	56	56	60	64	57	65	66	69	66	64	67	66	53	48	49	..	62.6
Salem	Maximum...	95	91	93	95	96	93	85	87	93	85	82	76	67	55	75	77	81	83	87	80	89	87	86	76	77	72	79	77	64	62	..	81.5
	Minimum ...	72	57	53	59	60	61	69	69	67	60	50	53	51	51	44	47	46	50	63	59	64	63	72	62	62	63	65	63	46	47	..	58.3
Sikeston /	Maximum...	96	90	88	94	92	95	90	91	96	80	86	68	70	63	73	73	81	86	81	81	91	91	92	91	80	79	89	90	57	75	..	83.8
	Minimum ...	70	62	58	59	63	66	73	70	70	69	51	56	61	53	51	51	52	55	59	65	66	66	67	73	65	61	65	67	55	54	..	61.8
Union ......1½ mi. SE	Maximum...	95	90	90	97	95	94	89	92	98	91	80	77	76	63	77	75	77	82	85	82	75	84	88	79	79	73	73	81	67	58	..	82.1
	Minimum ...	75	59	49	57	56	58	68	70	66	62	50	56	56	55	46	57	46	51	61	57	56	62	72	65	63	60	64	61	47	48	..	58.4
West Plains	Maximum...	98	95	95	91	91	86	85	89	92	76	85	63	59	59	77	74	80	82	87	85	90	89	88	72	79	77	83	82	58	64	..	81.0
	Minimum ...	61	56	54	54	58	63	68	67	66	55	49	57	50	52	45	47	47	48	64	63	63	66	70	63	61	64	66	57	50	50	..	57.8
Cairo, Ill.	Maximum...	92	86	85	90	89	91	87	86	93	78	81	69	70	62	69	76	78	81	78	78	89	90	89	87	77	77	87	87	67	76	..	81.5
	Minimum ...	71	66	63	63	66	75	73	72	74	62	57	62	56	55	56	54	55	60	65	70	67	67	74	67	66	64	69	67	55	56	..	64.2

/ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs. [a], [b], [c], etc., number of days missing, for example, [b] indicates two days missing. Italics data interpolated. § Partly interpolated.


MISSOURI
SCALE OF MILES
10 5 0 10 20 30 40 50
MISSISSIPPI RIVER
MISSOURI RIVER
GASCONADE
ILLINOIS
IOWA
LEGEND
⊛ Section Center.
● Weather Bureau Office.
○ Substation (Temperature and Precipitation).
□ Substation (Precipitation).
△ Substation (Evaporation, Temperature, and Precipitation.)
NOTE.—Dash (—) above station symbol indicates availability of hourly temperature data; below symbol, autographic precipitation records.
ATCHISON
NODAWAY
WORTH
HARRISON
MERCER
PUTNAM
SCHUYLER
SCOTLAND
CLARK
HOLT
ANDREW
GENTRY
DAVIESS
GRUNDY
SULLIVAN
ADAIR
KNOX
LEWIS
BUCHANAN
DE KALB
CALDWELL
LIVINGSTON
LINN
MACON
SHELBY
MARION
PLATTE
CLINTON
CLAY
RAY
CARROLL
CHARITON
RANDOLPH
MONROE
RALLS
PIKE
JACKSON
LA FAYETTE
SALINE
HOWARD
BOONE
AUDRAIN
MONTGOMERY
LINCOLN
CASS
JOHNSON
PETTIS
COOPER
MONITEAU
CALLAWAY
WARREN
ST. CHARLES
ST. LOUIS
BATES
HENRY
BENTON
MORGAN
COLE
OSAGE
GASCONADE
FRANKLIN
JEFFERSON
ST. CLAIR
HICKORY
CAMDEN
MILLER
MARIES
CRAWFORD
WASHINGTON
STE. GENEVIEVE
PERRY
VERNON
CEDAR
POLK
DALLAS
LACLEDE
PULASKI
PHELPS
DENT
IRON
ST. FRANCOIS
MADISON
BOLLINGER
CAPE GIRARDEAU
BARTON
DADE
GREENE
WEBSTER
WRIGHT
TEXAS
SHANNON
REYNOLDS
WAYNE
STODDARD
SCOTT
MISSISSIPPI
JASPER
LAWRENCE
CHRISTIAN
DOUGLAS
HOWELL
OREGON
CARTER
RIPLEY
BUTLER
NEW MADRID
PEMISCOT
DUNKLIN
NEWTON
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U. S. DEPARTMENT OF COMMERCE, WEATHER BUREAU

CLIMATOLOGICAL DATA

19

MISSOURI SECTION

H. F. WAHLGREN
ST. LOUIS, MO.

Vol. XLVIV October 1945 No. 10

Price: 5 Cents a Copy; 25 Cents a Year

GENERAL SUMMARY

October was a very pleasant month, with typical Indian-summer weather prevailing, especially during the latter half. Also, it was a fairly favorable month for the maturing of late planted crops and for the preparation of soil and seeding the winter crop of small grains.

Temperatures were moderate, as a rule, averaging slightly less than 1° below normal for each of the three divisions and for the State, as a whole. There were no unusual extremes of temperature anywhere in the State, although the State maximum of 85° was the lowest maximum of record in the 58 years State-wide records have been kept. A cool spell on the 9-10th resulted in the first frost of the season, which was killing in some sections, especially in the Northern Division. The frost was mostly light to moderate in the southern portions of the State. Subsequent occurrences of frost on several days during the remainder of the month were damaging in varying degree, depending on exposure and location, but many stations, particularly in the southern half of the State, had not recorded killing frosts by the close of the month.

Precipitation generally was adequate and frequent enough for current needs during the month, although averaging three-quarters of an inch below the normal for October. Distribution was rather irregular, ranging from very light in the extreme northwestern corner of the State to rather heavy locally in a few counties in the extreme southern and south-central sections. All of the month's precipitation occurred in the form of rain, no snow being reported anywhere in the State. The average for the Northern Division was 1.19 inches, or 1.45 inches less than normal, while the average for the Southwestern and Southeastern Divisions was 2.53 inches and 2.83 inches, respectively, or 0.61 inch and 0.20 inch less than the respective normals for those divisions.

Streams were generally at relatively low stages throughout the month and no serious overflows occurred.

There were no damaging or destructive storms of any kind. Sunshine averaged approximately normal, for the month.

The mild open weather was very favorable for livestock on range and the fine fall growth of pastures and early sown small grains, due to an excessively wet September, provided an abundance of early fall grazing. Corn and other late planted crops matured quite well during the month, but the frosts of the 9th and 10th, and later in the month, damaged considerable corn and soybeans, which had been planted unusually late, due to an unprecedented wet spring. Cotton picking and ginning progressed rather slowly the first half of the month, but made better advance during the latter half. Corn husking and cribbing began and was continuing at the close of the month, with reports of considerable soft corn in late planted fields. Yields were also below those of last year, as a rule, but above the 10-year average. Excellent progress was made in the seeding of winter wheat during the month and this work was mostly completed. The ground was in very good condition for making a good seed bed. Many wheat fields were green and growing nicely at the close of the month; stands were very good.—M. R. W.

(Continued on page 75)

PRESSURE, WIND, HUMIDITY, AND SUNSHINE

Stations	Sea-level pressure, extremes-inches				Wind				Relative humidity			Percentage of sunshine	Degree days
	Highest	Date	Lowest	Date	Average hourly velocity	Maximum velocity	Direction	Date	6:30 a. m.	12:30 p. m.	6:30 p. m.		
Columbia	30.40*	3	29.65*	31	6.3	24	nw.	19	83*	54*	60*	62	280
Kan. City Airp't*	30.39	2	29.51	31	9.7	33	nw.	21	81	49	57	68	253
St. Joseph	30.39*	2	29.53*	31	7.3	25	n.	21	86*	51*	64*	65	287
St. Louis	30.42*	3	29.74*	21	10.7	29	s.	30	76	51	59*	68	223
Springfield	30.38	3	29.66	31	10.4	36	n.	21	90	58	72	64	262
Cairo, Ill.	30.39	3	29.72	22	7.5	26	sw.	1	88	54	..	74	190
....	.....	..	.....	..	....	..	......	..	..	..	..	..	....

* Data for Airport station.

COMPARATIVE DATA FOR OCTOBER

Year	Temperature			Precipitation					Number of days			
	Average for State	Highest	Lowest	Average for State	Average, Northern Division	Average, Southwestern Division	Average, Southeastern Division	Snowfall, Average for State	Precip. .01 inch or more	Clear	Partly cloudy	Cloudy
1888	53.6	89	24	2.72	2.02	3.32	2.82	....	6	..	..	..
1889	53.8	91	22	2.32	2.54	2.05	2.38	....	5	..	..	..
1890	54.8	91	20	2.35	3.01	2.70	1.33	....	7	..	..	..
1891	55.7	92	20	1.05	1.31	1.09	0.76	....	5	..	..	..
1892	57.5	95	16	2.40	2.04	2.78	2.39	0	5	16	7	8
1893	56.7	95	16	1.12	0.48	0.91	1.97	....	3	20	8	3
1894	57.6	94	18	1.82	2.09	1.26	2.12	T.	6	17	8	6
1895	51.2	89	14	0.42	0.26	0.34	0.66	T.	2	21	6	4
1896	54.1	90	19	2.48	2.70	2.43	2.32	0	5	19	6	6
1897	62.5	99	23	0.74	0.55	0.81	0.87	0	3	22	6	3
1898	53.5	95	19	4.35	4.26	4.18	4.61	1.4	8	11	7	13
1899	62.4	100	24	3.16	1.98	3.58	3.93	0	5	20	6	5
1900	62.4	92	25	3.96	5.23	3.78	2.86	0	7	17	7	7
1901	60.1	96	24	1.69	1.55	1.63	1.89	0	6	18	8	5
1902	59.5	88	23	2.41	2.90	2.30	2.02	0	5	21	5	5
1903	57.3	90	19	3.06	2.19	3.76	3.22	0	6	19	6	6
1904	57.6	90	19	0.88	0.93	0.81	0.90	0	3	20	7	4
1905	55.1	90	20	4.85	3.67	5.78	5.09	0.3	10	15	7	9
1906	56.3	94	17	1.06	0.66	0.89	1.62	0	5	17	6	8
1907	56.7	94	18	2.93	2.02	3.62	3.14	0	7	17	6	8
1908	56.3	92	21	2.39	3.60	3.11	0.45	0.8	5	18	6	7
1909	57.2	96	20	2.72	3.45	2.99	1.71	T.	6	19	5	7
1910	59.4	94	15	2.97	0.97	1.76	6.18	0	5	22	4	5
1911	56.9	96	25	3.16	3.81	3.31	2.36	0.2	8	11	7	13
1912	59.1	97	21	3.78	3.87	4.29	3.17	0.7	6	20	5	6
1913	54.7	93	11	4.65	3.68	3.92	6.36	3.3	9	15	6	10
1914	59.2	88	19	4.59	4.32	4.28	5.17	0	7	14	6	11
1915	59.8	95	22	1.22	0.77	1.61	1.29	0	3	23	5	3
1916	58.0	95	20	2.12	2.53	2.03	1.79	0.3	6	18	5	8
1917	49.8	93	12	1.15	1.25	0.77	1.43	0.2	6	16	8	7
1918	60.6	95	28	3.45	3.02	3.51	3.82	0	7	14	6	11
1919	58.4	98	17	7.07	3.49	8.48	9.23	0	11	10	7	14
1920	61.3	93	18	3.14	1.94	3.76	3.73	T	7	17	6	8
1921	57.9	92	24	2.15	2.78	2.20	1.47	0	5	21	5	5
1922	59.9	97	18	2.04	2.00	1.84	2.28	0	5	20	5	6
1923	53.0	89	17	3.55	2.40	4.40	3.84	0.1	9	15	5	11
1924	61.8	92	21	1.22	1.54	1.59	0.52	0	4	22	5	4
1925	48.6	92	− 3	4.98	3.70	4.12	7.12	2.4	10	8	8	15
1926	57.3	93	21	4.73	4.43	4.98	4.77	0	9	14	6	11
1927	60.9	93	26	4.59	5.49	5.33	2.96	0	5	22	5	4
1928	60.9	94	22	3.82	3.85	2.91	4.71	0	8	15	8	8
1929	57.2	91	23	5.36	6.30	5.97	3.80	T.	10	15	6	10
1930	55.3	92	11	3.09	2.43	3.68	3.17	T.	6	16	6	9
1931	61.7	95	27	3.37	3.89	3.99	2.23	0	8	15	7	9
1932	55.7	90	22	3.54	2.79	3.19	4.65	0	5	18	5	8
1933	56.4	86	23	2.90	1.68	3.78	3.25	0	7	17	8	6
1934	61.1	90	24	2.50	2.22	3.02	2.25	0	4	22	5	4
1935	57.1	90	21	3.47	2.04	4.42	3.94	T.	10	12	7	12
1936	56.7	89	20	3.55	2.45	3.76	4.43	T.	8	16	6	9
1937	56.3	98	15	2.44	1.57	1.89	3.86	T	7	16	6	9
1938	63.9	99	19	1.23	1.11	1.50	1.09	0	3	24	4	3
1939	61.1	100	19	1.89	1.39	1.92	2.35	0	6	21	7	3
1940	63.0	94	28	1.73	2.31	1.65	1.23	0	6	20	6	5
1941	61.6	92	20	10.14	10.41	11.57	8.45	T.	17	8	8	15
1942	58.0	90	13	2.97	1.83	3.71	3.36	0	6	17	6	8
1943	56.3	90	19	3.23	2.56	4.27	2.85	0	7	18	6	7
1944	59.6	92	25	1.68	1.73	2.34	0.96	0	4	22	5	4
1945	56.8	85	23	2.18	1.19	2.53	2.83	0	6	17	7	7
....	....	..	....	....	....	....	....	....	..	..	..	..
....	....	..	....	....	....	....	....	....	..	..	..	..
....	....	..	....	....	....	....	....	....	..	..	..	..
Period	57.7	100	− 3	2.94	2.64	3.14	3.03	0.2	6	17	6	8

NAT. HIST.

Climatological Data for October 1945

Stations	Counties	Elevation, feet	Temperature, in degrees Fahr.							Precipitation, in inches						Number of days				Prevailing direction of wind	Observers
			Length of record, years	Mean	Departure from the normal	Highest	Date	Lowest	Date	Length of record, years	Total	Departure from the normal	Greatest in 24 hours 4	Date	Total snowfall, unmelted	With precip., .01 inch or more	Clear	Partly cloudy	Cloudy		
Northern Division																					
Albany	Gentry	930	4	55.2	......	83	18	24[a]	9	16	0.68	−2.11	0.29	14	0	4	19[d]	4[d]	4[d]	s.	Curtis E. Grace
Bethany	Harrison	916	50	54.4	− 0.4	82	18	25	9	52	0.65	−2.27	0.45	14	0	3	16	4	11	sw.	B. A. McGregor
Brookfield	Linn	767	4	54.9	......	81	17	29	9	4	1.16	......	0.52	14	0	5	23	1	7	e.	G. F. Breen
Brunswick	Chariton	652	64	54.6	− 0.7	80	17	32	9	66	1.61	−1.39	0.68	14	0	5	17	4	10	sw.	O. K Benecke
Canton, Lock & Dam 20	Lewis	488	7	54.6	......	79	17	29	9	15	1.53	−0.73	1.04	30-1	0	6	20	5	6	sw.	Lockmaster
Chillicothe	Livingston	779	36	54.2	− 0.8	82	17	30	9†	39	1.12	−2.02	0.62	14	0	5	24	3	4	se.	Wm. J. Olenhouse
Clifton Hill	Randolph	731	46	56.4	− 0.3	81	18	29	9	36	1.65	−0.87	0.84	1	0	7	17	5	9	sw.	Dr. A J. Bradsher
Columbia	Boone	740	55	56.4	− 0.5	81	17†	34	9†	55	1.60	−1.01	0.53	1	0	8	14	10	7	s.	U. S. Weather Bureau
Conception	Nodaway	1,108	56	55.4	0.0	83	18	29	22	61	0.51	−2.37	0.26	14	0	5	18	7	6	s.	Fr. Adelhelm Hess
Edgerton	Platte	856	25	56.6	+ 0.3	84	18	28	9	42	1.74	−0 88	0.87	19	0	6	20	3	8	se.	Paul C. Handley
Elsberry	Lincoln	449	14	55.3	− 2.2	83	28	28	9	14	1.37	−1.14	0.75	21	0	6	17	10	4	n.	Soil Conservation Service
Fayette	Howard	760	65	55.2	− 1.2	80	17†	31	9†	62	1.40	−1.49	0.68	30-1	0	6	18	6	7	sw.	Irvin E. Schnell
Fulton	Callaway	818	57	56.1	− 1.3	81	18	33	9	53	0.91	−2.51	0.44	21	0	8	25	3	3	sw.	Frank E. Hillgartner
Grant City	Worth	1,134	41	54.6	− 0.5	83	18	29	9	53	0.63	−2.41	0.33	4-5	0	4	16	11	4	n.	J. Homer Korn
Hannibal	Marion	759	53	54.8	− 1.2	79	17	31	9	61	1.44	−0.95	0.94	1	0	6	15	11	5	sw.	Hannibal Water Dept.
Kansas City Airport	Jackson	741	56	57.2	− 0.5	83	18	32	9	56	0.92	−1.77	0.43	14	0	7	16	7	8	sw.	U. S. Weather Bureau
Kansas City Univ.	Jackson	908	7	57.5	......	83	18	30	9	7	1.24	......	0.66	14	0	8	21	1	9	sw.	University of Kansas City
Kidder	Caldwell	1,020	53	53.9	− 1.9	80	17†	27	9	57	1.86	−1.21	1.09	30-1	0	7	19	6	6	s.	Mrs. Geraldine Terry
Kirksville	Adair	969	56	54.4	− 0.3	79	17	32	9†	63	0.76	−2.40	0.30	30-1	0	6	19	8	4	w.	Dr. Willis J. Bray
Lawson	Ray	1,070	7	56.0	......	82	12†	29	9	7	0.70	......	0.36	14	0	5	15	8	8	sw.	Elmer E. Lamb
Louisiana	Pike	469	51	55.6	− 0.6	80	17†	30	9†	64	0.91	−2.37	0.44	1	0	6	20	6	5	sw.	Stark Bro's Nurseries
Macon	Macon	875	46	54.4	− 1.9	80	17†	31	9	52	0.90	−1.99	0.60	30-1	0	6	14	7	10	ne.	John W. Atwell
Maryville	Nodaway	1,169	55	53.8	+ 0.3	80	18	28	22	51	0.79	−2.18	0.40	14	0	7	18	2	11	sw.	R. B. Montomery
Memphis	Scotland	787	6	53.0	......	83	17	29	9†	15	1.42	−0.51	0.88	30-1	0	4	18	6	7	sw	John W. Alexander
Mexico	Audrain	800	56	54.8	− 1.5	81	17	30	9	67	1.36	−1.71	0.65	21	0	6	14	9	8	w.	Darrence W. Stuart
Moberly 3½ mi. NE	Randolph	860	8	....	......	..	..	..	..	8	....	......	....	..	.	..	..	..	..	......	F. W. Bell
New Florence. 1 mi SE	Montgomery	885	2	54.5	......	79	18	32	9	3	0.93	......	0.62	21-22	0	5	12	9	10	s.	U. S. Weather Bureau
Oregon	Holt	1,048	89	56.0	+ 0.9	82	17	29	9†	89	0.66	−2.09	0.20	23	0	6	17	13	1	ne.	Miss Mina Wright
St. Charles	St. Charles	520	57	57.2	− 1.0	84	27	33	9	67	1.33	−1.85	0.59	21-22	0	6	21	9	1	nw.	Martin L. Comann
St. Joseph	Buchanan	957	35	56.0	0.0	81	18	30	9	73	0.67	−2.22	0.19	18-19	0	6	20	5	6	s.	U. S Weather Bureau
Saverton, Lock No. 22.	Ralls	472	7	56.4	......	78	17†	35	9	7	1.60	......	0.62	30-1	0	7	21	9	1	nw.	Lockmaster
Shelbina	Shelby	779	4	55.0[a]	......	80[a]	17	28[a]	9	52	1.14	−1.47	0.75	30-1	0	4	17[a]	7[a]	6[a]	nw	Guyman Hatcher
Steffenville	Lewis	650	47	54.6	− 2.8	81	17	28	9	52	1.19	−1.54	0.68	1	0	7	17	9	5	s.	Mrs. Fannie V. Gross
Tarkio	Atchison	916	42	52.8	− 2.0	85	18	23	22	51	0.18	−2.63	0.11	4	0	2	17	7	7	s.	C. A. A. Station
Trenton	Grundy	822	49	55.9	0.0	82	17†	29	9	50	1 73	−1.40	0.37	14	0	7	19	6	6	s.	W. H. Estes
Unionville	Putnam	1,062	52	53.0	− 2.2	80	11†	29	9	52	0.88	−2.25	0.23	13-14	0	6	20	11	0	w.	Mrs. Dora A. Wilson
Vandalia	Audrain	766	1	....	......	..	..	..	..	6	....	......	....	..	0	..	..	..	..	......	August J. Little
Warrenton	Warren	816	63	56.0	0.0	81	18†	28	9	55	1.15	−2.29	0.80	21-22	0	6	20	9	2	sw.	W. T. Zimmerman
Keokuk, Iowa	Lee, Ia.	574	73	55.0	− 0.4	79	17	32	9	73	0.91	−1.35	0.53	1	0	5	15	10	6	sw.	U. S. Weather Bureau
Division means	**and extremes**	.....	..	**55.2**	**− 0.9**	**85**	**18**	**23**	**22**	..	**1.19**	**−1.45**	**1.20**	**21**	**0**	**6**	**18**	**7**	**6**	**sw.**	
Southwestern Division																					
Anderson 1½ mi SW	McDonald	1,000	41	57.0	− 1.7	82	18†	28	25	46	5.12	+1.23	3.12	21-22	0	7	18	3	10	sw.	Samuel G. Chamberlain
Appleton City	St. Clair	813	50	57.2	− 1.7	81	12†	31	9	53	2.39	−0.57	1.04	30-1	0	7	18	2	11	ne.	Rolla Brown
Bolivar	Polk	1,071	42	58.6	0.0	82	18	33	9	50	1.50	−1.75	0.88	21	0	8	16	7	8	sw.	Southwest Baptist College
Boonville	Cooper	650	7	55.5	......	80	17†	33	9	68	1.66	−1.56	0.76	13-14	0	5	12	8	11	s.	Boonville Water Dept.
Carthage	Jasper	962	11	59 0	......	84	18	32	9	21	4.55	......	3.88	21-22	0	6	14	13	4	sw.	Carthage W. and E. Plant
Clinton	Henry	786	52	56.5	− 2.4	80	18†	32	9	58	2.06	−1.39	0.87	14	0	8	18	6	7	s.	U. S. Weather Bureau
Eldon	Miller	934	50	....	......	..	..	..	..	46	....	......	....	..	.	..	..	..	..	......	E. H. Shepherd
Fort Leonard Wood	Pulaski	1,107	4	....	......	.	..	..	..	4	3.49	......	1.85	21	0	8	11[k]	2[k]	7[k]	......	U. S. Army Medical Corps
Harrisonville	Cass	904	67	55.6	− 0.5	83	12	29	9	70	2.15	−0.82	0.91	14	0	8	16[a]	4[a]	10[a]	s.	Jeffrey B. Patterson
Jefferson City	Cole	557	55	56.2	− 0.6	82	17†	29	9	63	1.65	−1.72	0.85	14	0	10	6[b]	15[b]	8[b]	......	K. W. O. S. Radio Farm
Joplin	Jasper	1,008	23	60.5	+ 0.3	81	18	40	9	40	2.99	−0.46	2.80	21	0	4	19	4	8	sw.	Empire Dist. Electric Co.
Lakeside	Miller	595	14	57.4	− 2.4	82	12	33	9	14	3.29	+0.48	2.12	21	0	8	16	8	7	sw.	W. S. Frame
Lamar	Barton	980	57	57.2	− 1.7	81	18†	34	9†	64	1.71	−1.90	0.92	21	0	5	21	2	8	sw.	Mrs. Marie Mann
Lebanon	Laclede	1,265	57	57.8	+ 0.1	80	12†	30	9	58	3.54	−0.23	1.58	21-22	0	9	12	11	8	sw.	Mrs. Rosa E. Montelius
Lexington	Lafayette	688	60	....	......	..	..	..	..	61	....	......	....	..	.	..	..	..	..	......	Tilton Davis
Lockwood	Dade	1,078	39	59.4	+ 0.7	81	12†	34	9	49	1.88	−2.02	1.48	21-22	0	7	17	8	6	sw.	Hubert A. Nieman
Marshall	Saline	779	58	59.0	+ 2.4	85	18†	32	9	55	1.48	−1.65	0.75	13-14	0	3	19	8	4	s.	Thomas A. Reid
Mountain Grove	Wright	1,463	44	57.6	0.0	80	12	32	9	48	2.78	−0.68	1.75	21-22	0	9	15	12	4	se.	Mo. Fruit Exp. Station
Mount Vernon	Lawrence	1,174	33	57.8	− 0.8	82	19	33	9	45	2.97	−0.41	2.29	21	0	7	11	14	6	sw.	James C. Williamson
Neosho	Newton	1,011	58	59.1	− 0.1	82	18†	33	23†	62	3.04	−0.65	2.58	21-22	0	6	15	8	8	sw.	U. S Fisheries Station
Nevada	Vernon	862	52	59.6	+ 2.0	85	12	32	9	53	1.34	−1.73	1.07	21	0	5	18	5	8	sw.	Henry Kraft
Ozark Beach	Taney	700	5	58.8	......	84	12†	33	25	20	2.24	−1.63	1.43	21-22	0	7	10	1	20	nw.	Empire District Elec. Co.
Sedalia	Pettis	910	32	57.8	+ 0.1	81	18	32	9	34	2.22	−0.46	1.00	14	0	9	18	5	8	sw.	Dr. J. E. Cannaday
Seligman	Barry	1,542	44	59.6	+ 0.6	85	20	33	25	42	5 30	+1.84	3.90	21-22	0	6	17	5	9	w.	Floyd E. Fawver
Seymour 3½ miles NE	Webster	1,642	39	54.6	− 2.8	78	12†	32	10†	39	2.98	−0.50	2.00	21-22	0	8	21	0	10	s	A. L. Hailey
Springfield 4 mi. NW	Greene	1,301	57	56.7	− 0.9	81	18	34	9†	57	3.07	+0.02	2.39	21	0	5	14	4	13	s.	U. S. Weather Bureau
Sweet Springs	Saline	700	4	56.8	......	82	17†	29	9	4	1.74	......	0.69	14	0	7	14	13	4	sw.	H F. Nelson
Warrensburg	Johnson	878	58	58.1[a]	+ 0.1	81[a]	18	33	9	65	1.52	−1.50	0.73	14	0	6	20	3	8	sw.	Central Teachers College
Warsaw	Benton	687	44	58.6	− 0.4	83	12†	32	9	50	2.32	−1.48	1.19	14-15	0	6	17	6	8	nw.	Dora B. Johnson
Wasola	Ozark	1,294	4	58.0	......	80	12†	31	9†	5	2.22	......	1.60	21-22	0	5	22	3	6	w.	A. W. Pinckney
Division means	**and extremes**	.....	..	**57.8**	**− 0.4**	**85**	**12†**	**28**	**25**	..	**2.53**	**−0.61**	**3.90**	**21-22**	**0**	**7**	**16**	**7**	**8**	**sw.**	
Southeastern Division																					
Advance ¼ mile W	Stoddard	354	8	56.4	......	81	12	31	10	8	3.00	......	1.14	21	0	6	12	8	11	s.	U. S. Weather Bureau
Arcadia	Iron	926	64	56.0	0.0	82	12	31	10†	67	4.67	+1.22	2.95	21-22	0	7	20	0	11	e.	Arcadia College
Birch Tree ½ mile E	Shannon	1,000	50	57.2	− 1.2	81	12	30	10	51	1.95	−1.33	1.20	21-22	0	6	18	9	4	sw.	R. C. Moger
Black 9 miles NW	Iron	1,000	52	54.4	− 1.5	80	12†	26	10	52	2.45	−1.14	1.71	21-22	0	5	16	10	5	sw.	Claude Volner
Campbell	Dunklin	314	19	59.0[c]	− 1.1	80[c]	12†	35[c]	10	19	3.36	+0.26	1.30	21	0	6	18[c]	5[c]	5[c]	s	Mrs. Ruth Christian
Caruthersville	Pemiscot	265	49	57.6	− 4.6	78	12†	38	16†	53	6.15	+2.79	1.87	1	0	7	19	3	9	e.	Victor T. Malloure
Crystal City	Jefferson	420	11	57.8	− 0.6	83	27†	31	9	11	2.02	−0.75	1.61	21	0	6	16	5	10	nw.	Richard K. Ragland
Doniphan	Ripley	344	41	58.4	− 0.1	85	12	30	10	41	1.54	−1.52	0.66	30-1	0	5	23	2	6	e.	Boyce Lackey
Farmington	St. Francois	896	34	56.5	− 0.3	79	12†	31	10†	48	4.10	+0.66	2.52	21-22	0	7	19	3	9	s.	F. M. Karsch
Greenville	Wayne	460	36	58 4[d]	+ 0.8	85[d]	12	30[d]	10	38	3.57	+0.29	3.22	21-22	0	2	17[d]	6[d]	4[d]	s.	Beuford Shoemake
Jackson	Cape Girardeau	428	54	57.6	− 0.3	83	10	29	11	55	3.97	+0.45	1.53	21	0	5	18	5	8	s.	John G. Putz
Koshkonong	Oregon	958	44	59.4	− 0.2	80	12†	34	9	45	2.24	−0.98	1.58	21-22	0	9	13	9	9	s.	Mrs Genevieve T. Smith
Licking 4 miles N	Texas	1,170	8	56.7	......	81	12	29	9†	8	2.07	−1.24	1.37	21-22	0	3	17	7	7	sw.	U. S. Forestry Service
Malden 4 miles NNW	Dunklin	292	2	58.6	......	83	12	35	10	2	2.68	......	1.33	21	0	6	11	7	13	s.	U. S. Weather Bureau

Continued on next page

Climatological Data for October 1945—Continued from preceding page

Stations	Counties		Temperature, in degrees, Fahr.							Precipitation, in inches						Number of days					
		Elevation, feet	Length of record, years	Mean	Departure from the normal	Highest	Date	Lowest	Date	Length of record, years	Total	Departure from the normal	Greatest in 24 hours [4]	Date	Total snowfall, unmelted	With precip., .01 inch or more	Clear	Partly cloudy	Cloudy	Prevailing direction of wind	Observers
Southeastern Division—	*Concluded*																				
Marble Hill	Bollinger	532	50	57.9	− 0.3	84	12	30	10	52	3.60	+0.18	1.60	20–21	0	4	17	7	7	n.	R. A. DeWitt
Poplar Bluff	Butler	339	40	58.5	− 1.6	83	12	32	10	41	1.21	−2.45	0.70	1	0	4	21	4	6	s.	Joe Roehm
Rolla	Phelps	1,202	45	57.4	+ 0.9	80	12†	32	9	61	3.55	+0.09	1.70	21	0	6	13	11	7	sw.	Rolla School of Mines
St. Louis:																					
City Office		465	108	58.4	− 0.4	81	27	39	9	108	1.08	−1.64	0.83	21–22	0	5	12	12	7	sw.	**Section Center**
St. Louis Airport	St. Louis	556	8	57.1	− 0.2	82	28	34	9	14	1.22	−2.20	0.57	21–22	0	5	13	7	11	s.	U. S. Weather Bureau
St. Louis University	St. Louis City	578	33	58.1	− 0.5	81	27	38	9	33	1.45	−1.71	1.15	21–22	0	5	23	3	5	se.	St. Louis University
Salem	Dent	1,206	41	57.6	0.0	81	18	31	9	44	5.29	+1.67	4.45	21–22	0	6	19	6	6	s.	E. E. Martin
Sikeston	Scott	318	38	58.9	− 0.4	84	12	34	9†	48	2.18	−1.09	0.99	1	0	9	20	5	6	se.	Mrs. Lucy W. Humphreys
Union 1½ mi. SE	Franklin	520	7	56.2	......	81	18	30	9†	28	1.75	−1.73	0.86	21–22	0	8	20	3	8	w.	Cornelius Sieges
Vichy 2 mi. NW	Maries	1,125	9	56.0	......	80	18	33	9	10	3.77	......	2.12	21–22	0	10	17	1	13	sw.	Civil Aeronautics Adm.
Wappapello Dam	Butler	475	6	58.4	......	81	12	37	9†	6	2.43	......	0.81	21–22	0	9	17	6	8	nw.	U. S. Engineer Office
Weingarten	St. Genevieve	833	4	56.8	......	80	30	32	9	5	2.32	......	1.50	22	0	5	15	7	9	n.	William J. Miller
West Plains	Howell	1,005	8	56.2	......	82	12	30	10†	8	1.97	......	1.63	21–22	0	6	14	7	10	s.	U. S. Weather Bureau
Willow Springs 500 ft E	Howell	1,238	4	57.7	......	81	12	30	10†	38	2.40	−0.92	1.53	21	0	5	19	2	10	s.	Allen Frazee
Cairo, Ill.	Alexander, Ill.	314	73	59.3	− 1.2	79	12	40	9	74	1.97	−0.79	1.20	30–1	0	7	13	8	10	sw.	U. S. Weather Bureau
Division means	**and extremes**	.....	..	**57.5**	**− 0.6**	**85**	**12**	**26**	**10**	..	**2.83**	**−0.20**	**6.20**	**21**	**0**	**6**	**17**	**6**	**8**	**s.**	
State means	**and extremes**	.....	..	**56.8**	**− 0.9**	**85**	**12†**	**23**	**22**	..	**2.18**	**−0.76**	**6.20**	**21**	**0**	**6**	**17**	**7**	**7**	**sw.**	

The departures from normal temperature are computed from the averages of the entire period for stations having 10 or more years of record. Departures of precipitation for stations with 15 years or more of record are computed from a normal or "standard mean", adjusted to a uniform 35-year period; for stations of 10 to 14 years the means for the period of record are used. The normal may be found by adding the departures when minus (−) or subtracting when plus (+). Figures and letters following stations indicate distance in miles and direction of station from the city Post Office, unless otherwise indicated. T. Trace or 0.005 inch or less. ^{a}, ^{b}, ^{o}, etc., number of days missing; for example, ^{b}, indicates two days missing. Italics data interpolated. § Partly interpolated. † And other dates. ‡ Received too late to be included in means and summaries. [4] Best available used for stations not equipped with recorders. Post office address of: Altona is Adrian; Crane Mountain is Arcadia; East End is Goodland; Eastwood Lookout is Van Buren; Ellsinore Lookout is Mill Spring; Hailey is Cassville; High Lookout is Birch Tree; Macedonia Lookout is Doniphan; Perry is Center; Pilot Knob is Ironton; Pineview Lookout is Duke; Sugar Camp Lookout is Cassville; Wilderness Lookout is Lampe.

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TEMPERATURE

The monthly mean for the State, 93 stations reporting, was 56.8°, or 0.9° cooler than the 58-year October average. The highest monthly mean was 60.5° at Joplin, and the lowest was 52.8° at Tarkio. The highest reported was 85° at Nevada, Doniphan, and Greenville on the 12th, Tarkio and Marshall on the 18th, Marshall on the 19th, and Seligman on the 20th; the lowest was 23° at Tarkio on the 22d.

PRECIPITATION

The average for the State, 210 stations reporting, was 2.18 inches, or 0.76 inch less than the 58-year October average. The greatest monthly amount was 7.08 inches at Fredericktown, and the least was 0.18 inch at Tarkio. The greatest amount reported in 24 hours was 6.20 inches, at Fredericktown, on the 21st. The average number of days with 0.01 inch, or more, was 6. There was no snowfall reported anywhere in the State.

MISCELLANEOUS PHENOMENA

Aurora.—27th.

Floods.—In the Osage River, at Lakeside, flood stage was reached on the 8th. In the Mississippi River, at Louisiana, flood stage or slightly higher occurred from the 2d to 4th, 6th to 7th, and 9th to 11th.

Fogs.—Heavy, 1st, 3d, 4th, 5th, 6th, 7th, 9th, 12th, 15th, 16th, 21st, 24th, 25th, 30th.

Frosts.—Light, 9th, 10th, 11th, 13th, 15th, 16th, 17th, 20th, 22d, 23d, 24th, 25th, 26th, 27th, 29th, 31st. Heavy, 9th, 10th, 15th, 20th, 25th. Killing, 9th, 10th, 15th, 22d, 23d, 25th, 26th.

Hail.—Light, 18th at Brunswick; 19th at St. Charles.

Windstorms.—No damaging winds reported.

DAMAGE BY LIGHTNING

During an early morning thunderstorm on October 18th, lightning struck the Missouri Farmers' Association mill building at Columbia, resulting in a total loss of the building and contents, estimated at more than $100,000.

OBITUARY

Mr. John H. Patterson, Cooperative Observer at Harrisonville, Mo., died on his eighty-second birthday, Oct. 12, 1945. Mr. Patterson's services began on Sept. 1st, 1919, and he served faithfully and continuously until his death. The Weather Bureau and the community in which he served is deeply indebted to this public servant for his valuable contribution to the climatic history of Harrisonville.

Daily Precipitation for October 1945

Stations	Drainage basins	Day of month																															Total
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Northern Division																																	
Albany	Grand	.01	....	....	T.	.20	....	....	....	....	....	....	....	....	.29	....	....	....	....	....	....	.18	....	....	....	....	....	....	....	....	....	....	0.68
Amity	do	.03	....	....	T.	.03	T.	....	....	....	T.	....	....	T.	.67	T.	....	....	....	.20	....	.12	....	.04	.06	....	....	....	....	....	....	T.	1.15
Auxvasse	Missouri	.15	....	....	.02	....	....	....	....	....	....	....	....	....	.29	....	....	....	....	.02	....	.35	.12	....	.03	....	....	....	....	....	....	....	0.98
Bethany	Grand	.05	....	....	....	.15	....	....	....	....	....	....	....	....	.45	....	....	....	T.	....	....	T.	....	....	T.	....	....	....	....	....	....	....	0.65
Bowling Green[2]	Mississippi	.91	.02	....	....	....	....	....	....	....	....	....	....	....	....	.18	....	....	....	....	....	....	.23	....	....	....	....	....	....	....	....	....	1.34
Brookfield[2]	Grand	.39	....	....	....	....	....	....	....	....	....	....	....	....	.15	.37	....	....	....	.10	....	....	.15	....	....	....	....	....	....	....	....	....	1.16
Browning 3 mi. NE	do	.09	....	....	T.	.04	.01	....	....	....	T.	....	....	....	.54	....	....	....	T.	.14	....	.04	.03	....	T.	....	....	....	....	....	....	....	0.89
Brunswick[2]	do	.38	....	....	....	....	T.	T.	T.	....	....	....	....	....	....	.68	....	....	.32	.06	....	....	.17	....	....	....	....	....	....	....	....	....	1.61
Canton, Lock No. 20[2]	Mississippi	1.04	....	....	....	.06	T.	....	T.	....	....	....	....	....	.15	....	....	....	....	T.	....	....	.06	....	....	....	....	....	....	....	.16	.06	1.53
Centralia[2]	do	.93	....	....	....	....	....	....	....	....	....	....	....	....	*	.35	....	....	.03	.14	....	....	.41	....	....	....	....	....	....	....	....	....	1.86
Chillicothe[2] (A)	Grand	.22	....	....	....	.01	....	....	....	....	....	....	....	....	....	.62	....	....	T.	.23	....	....	.04	....	....	....	....	....	....	....	....	....	1.12
Chillicothe[2] (B)	do	.22	....	....	....	.06	T.	....	....	....	....	....	....	....	....	.55	....	....	....	.24	....	....	.11	....	....	....	....	....	....	....	....	....	1.18
Clifton Hill	Chariton	.84	....	....	....	.01	.04	....	....	....	....	....	....	....	.60	....	....	....	....	.05	....	.02	.09	....	....	....	....	....	....	....	....	....	1.65
Columbia[1,5]	Missouri	.53	....	....	.01	T.	T	....	....	....	....	....	....	.02	.35	....	....	....	.07	.12	....	.47	T.	T.	.03	....	....	....	....	....	....	....	1.60
Columbia 9 mi. WNW	do	.69	....	....	T.	....	....	....	....	....	....	....	....	....	.52	....	....	....	.01	.09	....	.12	.26	....	.02	....	....	....	....	....	....	....	1.71
Conception	do	....	....	....	.06	.07	....	....	....	T.	....	....	....	....	.26	....	....	T.	....	....	....	.07	....	....	.05	....	....	....	....	....	....	....	0.51
Edgerton	do	.06	....	....	....	.07	....	....	....	....	....	....	....	....	.55	....	....	....	....	.87	....	.17	....	.02	....	....	....	....	....	....	....	....	1.74
Edina[2]	Mississippi	.34	....	....	....	.10	....	....	....	....	....	....	....	....	.15	....	....	....	....	.15	....	....	.10	....	....	....	....	....	....	....	....	T.	0.84
Elsberry S.C.S.[2]	do	.42	....	....	....	.01	T.	T.	....	....	....	....	....	....	T.	.14	....	....	....	.02	....	....	.75	....	.03	T.	....	....	....	....	....	....	1.37
Fayette	Missouri	.68	....	....	T.	....	.01	....	....	....	....	....	....	....	.55	....	....	....	T.	.03	....	*	.13	....	T.	....	....	....	....	....	....	....	1.40
Fulton[2]	do	.15	....	....	....	.02	T.	....	....	....	....	....	....	....	.10	.14	....	....	T.	.01	....	....	.44	....	.02	.03	....	....	....	....	....	....	0.91
Gallatin[2]	Grand	1.02	....	....	....	.04	....	....	....	....	....	....	....	....	*	.23	....	....	....	.20	....	....	.10	....	.03	....	....	....	....	....	....	....	1.62
Grant City	do	.03	....	....	T.	.33	....	....	....	....	T.	....	....	....	.24	....	....	....	....	....	....	.03	....	....	....	....	....	....	....	....	....	....	0.63
Hannibal[1] (A)	Mississippi	.94	....	....	....	....	....	....	....	....	....	....	....	....	.15	....	....	....	.09	T.	....	.03	T.	....	....	....	....	....	....	.09	.14	....	1.44
Hannibal[2] (B)	do	1.08	.08	....	....	....	....	....	....	....	....	....	....	....	.18	.04	....	....	.02	.06	....	.08	.06	....	....	....	....	....	....	....	.07	.16	1.83
Hermann[2]	Missouri	.90	.04	....	....	....	....	....	....	....	....	....	....	....	....	.15	....	....	....	....	....	....	.95	....	.05	.05	....	....	....	....	.44	....	2.58
Kahoka[2]	Mississippi	.45	....	....	....	.06	T.	....	....	....	....	T.	....	....	.24	.03	....	....	....	.04	....	.03	.12	....	....	....	....	....	....	....	....	....	0.97
Kansas City Airport[1,5]	Missouri	T.	....	....	.01	.13	T.	T.	T.	....	....	....	....	.20	.43	....	....	....	T.	.04	....	.10	....	.01	....	....	....	....	....	....	....	....	0.92
Kansas City University	do	.03	....	....	.03	.18	....	....	.03	....	....	....	....	.14	.66	T.	....	....	....	.04	....	.13	T.	....	T.	....	....	....	....	....	T.	T.	1.24
Kidder[2]	Grand	1.09	....	....	....	.10	.03	....	....	....	....	....	....	....	.03	.32	....	....	....	.18	....	T.	.11	....	....	....	....	....	....	....	....	....	1.86
King City	Missouri	.01	....	....	....	....	....	....	....	....	....	....	....	....	.57	....	....	....	....	.35	....	....	....	....	.43	....	....	....	....	....	....	....	1.36
Kirksville	Mississippi	.30	....	....	....	.04	T.	....	....	....	....	....	....	....	.23	....	....	....	....	.09	....	.03	.07	T.	....	....	....	....	....	....	....	....	0.76
Knoxville[3]	Missouri	.03	....	....	.02	.05	T.	....	....	....	....	....	....	T.	.53	....	....	....	....	.04	....	.05	....	.02	....	....	....	....	....	....	....	....	0.74
LaBelle[2]	Mississippi	.50	....	....	....	T.	....	....	....	....	....	....	....	....	....	....	....	....	....	.20	....	....	....	....	....	....	....	....	....	....	....	T.	0.70
Lawson	Missouri	....	....	....	T.	.09	....	....	....	....	....	....	....	....	.36	....	....	....	....	.15	....	.06	....	.04	....	....	....	....	....	....	....	....	0.70
Linneus[2]	Grand	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Louisiana (A)	Mississippi	.44	....	....	....	.02	....	....	....	....	....	....	....	....	.15	....	....	....	....	....	....	.17	.08	....	....	....	....	....	....	....	....	.05	0.91
Louisiana[2] (B)	do	.93	.02	....	....	.01	....	....	....	....	....	....	....	....	.03	.15	....	....	....	.04	....	....	.20	....	....	....	....	....	....	....	....	.10	1.48
Lucerne[2]	Grand	....	....	....	....	.06	.05	....	....	....	....	....	....	....	*	.50	....	....	....	.10	....	....	....	....	....	....	....	....	....	....	....	....	§0.71
Macon[2]	Chariton	.60	....	....	....	.06	....	T	....	....	....	....	....	....	.10	T.	....	....	....	.03	....	....	.07	....	....	....	....	....	....	....	....	.04	0.90
Madison[2]	Mississippi	1.05	....	....	....	....	....	....	....	....	....	....	....	....	*	.21	....	....	....	....	....	....	.08	....	....	....	....	....	....	....	....	....	1.34
Martinsburg[2]	Missouri	.30	T.	....	....	.01	T.	....	.01	....	....	....	....	....	T.	.22	....	....	....	.03	.01	....	.44	....	T.	T	....	....	....	....	....	....	1.02
Maryville	do	.05	....	....	.04	.19	....	....	....	....	....	....	....	....	.40	....	....	.03	....	....	....	.05	....	....	.03	....	....	....	....	....	....	....	0.79
Memphis[2]	Mississippi	.88	T.	....	....	.09	....	....	....	....	....	T.	....	....	.23	T.	....	....	....	....	....	....	.22	....	....	....	....	....	....	....	....	....	1.42
Mexico[2]	do	.34	....	....	....	....	....	....	.05	....	....	....	....	....	....	.20	....	....	.09	.03	....	....	.65	....	....	T.	....	....	....	....	....	....	1.36
Milan[2]	Grand	.41	.07	....	....	.09	....	....	....	....	....	....	....	....	.11	.39	....	....	....	.18	....	....	.31	....	....	....	....	....	....	....	....	....	1.56
Moberly[2] 3½ mi. NE	Mississippi	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Monroe City	do	.82	....	....	....	....	....	....	....	....	....	....	....	....	.19	....	....	....	....	.03	....	.04	....	....	....	....	....	....	....	....	....	.04	1.12
New Florence[3,5] 1 mi SE	Missouri	.10	....	....	T.	T.	T.	....	T.	....	....	....	....	T	.16	....	....	....	....	T	....	.61	.01	....	.05	....	....	....	....	....	....	....	0.93
Oregon	do	.12	....	....	.05	....	....	....	....	....	....	....	....	T	.09	....	....	....	....	.09	....	.11	....	.20	....	....	....	....	....	....	....	....	0.66
Palmyra	Mississippi	.74	....	....	....	....	....	....	....	....	....	....	....	....	.21	....	....	.02	....	.04	....	....	T	....	....	....	....	....	....	....	T.	.25	1.26
Paris[2]	do	.78	.01	....	....	....	T.	....	....	....	....	....	....	....	.13	.12	....	....	....	.03	....	....	.08	....	....	....	....	....	....	....	....	.05	1.20
Perry 1 mile E	do	.45	....	....	....	....	....	....	....	....	....	....	....	....	.17	....	....	....	.20	....	....	.05	.10	....	....	....	....	....	....	....	....	....	0.97
Philadelphia	do	.90	....	....	....	....	....	....	....	....	....	....	....	....	.21	....	....	....	T.	T.	....	T.	....	....	....	....	....	....	....	....	....	.27	1.38
St. Charles[2] (A)	Missouri	.42	....	....	....	T	....	....	....	....	....	....	....	....	.16	.03	....	....	....	....	.05	....	.59	....	.08	....	....	....	....	....	....	....	1.33
St. Charles[2] (B)	do	.22	.24	....	....	T.	.01	....	....	....	....	....	....	....	T.	.12	....	....	....	.08	....	....	.63	....	.07	.01	....	....	....	....	....	....	1.38
St. Joseph[1,5]	do	T.	....	....	.07	T.	....	....	....	....	....	....	....	T.	.18	....	....	....	.07	.12	....	.09	....	.14	....	....	....	....	....	....	....	....	0.67
Saverton, Lock No. 22[2]	Mississippi	.62	T.	....	....	T.	....	T.	....	....	....	....	....	....	.12	T.	....	....	.17	.05	....	....	.20	....	....	....	....	....	....	....	.17	.27	1.60
Shelbina	do	.75	....	....	....	T.	.02	....	....	....	....	....	....	....	.31	....	....	....	....	T.	....	T.	.06	....	....	....	....	....	....	....	....	T.	1.14
Shelbyville[2]	do	.67	....	....	....	....	....	....	....	....	....	....	....	....	....	.22	....	....	....	....	.08	....	.06	....	....	....	....	....	....	....	....	....	1.03
Steffenville	do	.68	....	....	....	.02	T.	....	....	....	....	....	....	....	.21	....	....	....	....	.02	....	.06	.05	....	....	....	....	....	....	....	....	.15	1.19
Tarkio[3]	Missouri	T.	....	....	.11	....	....	....	....	....	....	....	....	T.	.07	....	....	....	....	....	....	T	....	T.	T	....	....	....	....	....	....	....	0.18
Trenton[2]	Grand	.94	....	....	....	.10	T	....	....	....	....	....	....	....	.12	.25	....	....	....	.25	....	....	.06	....	.01	....	....	....	....	....	....	....	1.73
Troy[2]	Mississippi	.40	.05	....	....	....	T.	....	....	....	....	....	....	....	....	.15	....	....	....	....	....	....	1.20	....	.05	.02	....	....	....	....	....	....	1.87
Unionville[2]	Chariton	.48	....	....	....	.01	....	....	....	....	....	....	....	....	.18	.05	....	....	....	.14	....	....	T.	....	.02	....	....	....	....	....	....	....	0.88
Vandalia	Mississippi	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Warrenton	do	.11	....	....	T.	T.	T.	....	....	....	....	....	....	....	.12	T.	....	....	....	....	....	.58	.22	....	.09	....	....	....	....	....	.03	....	1.15
Keokuk. Iowa[1]	do	.53	....	....	.01	T.	T.	....	....	....	T.	....	....	....	.25	....	....	....	....	.03	....	.09	....	....	....	....	....	....	....	....	....	....	0.91
Southwestern Division																																	
Altona[2]	Osage	.37	....	....	....	.15	....	....	....	....	....	....	....	....	T	.60	....	....	....	....	....	....	.20	....	....	....	....	....	....	....	....	....	1.32
Anderson[2] 1½ mi. SW	Neosho	1.03	.05	....	.09	T.	T.	....	....	....	....	....	....	....	T.	.11	....	....	....	....	....	.62	3.12	....	.10	....	....	....	....	....	....	....	5.12
Appleton City	Osage	1.04	....	....	.05	....	....	....	.09	....	....	....	....	.30	.42	....	....	....	....	....	....	.45	.04	....	....	....	....	....	....	....	....	....	2.39
Ava Ranger Station[2]	White	.28	....	....	.16	....	....	....	....	....	....	....	....	....	....	.22	....	....	....	....	....	....	1.66	....	....	....	....	....	....	....	....	....	2.32
Bolivar	Osage	.13	....	....	.06	....	.02	....	....	....	....	....	....	....	.23	.10	....	....	....	....	....	.65	.23	....	.08	....	....	....	....	....	....	....	1.50
Boonville[2] (A)	Missouri	.60	....	....	....	....	....	....	....	....	....	....	....	....	.05	.71	....	....	....	.10	....	....	.20	....	....	....	....	....	....	....	....	....	1.66
Boonville[2] (B)	do	.68	....	....	....	....	....	....	....	....	....	....	....	....	.02	.75	....	....	T.	.11	....	....	.18	....	T.	.01	....	....	....	....	....	....	1.75
Bradleyville[2]	White	.27	.22	....	....	....	....	....	....	....	....	....	....	....	.05	.30	....	....	....	....	....	.35	1.80	....	....	....	....	....	....	....	....	....	2.99
Buffalo[2]	Osage	.13	....	....	....	....	.06	....	....	....	....	....	....	....	....	.99	....	....	....	....	....	....	.86	....	.07	....	....	....	....	....	....	....	2.11
Butler[2]	do	.40	....	....	....	.12	T.	....	.08	....	....	....	....	....	.02	.20	....	....	T.	....	....	....	.50	....	.02	....	....	....	....	....	....	....	1.34
Caplinger Mills[2]	do	.09	....	....	.15	.10	....	....	....	....	....	....	....	....	T.	.29	....	....	....	....	....	....	1.32	....	.22	T.	....	....	....	....	....	....	2.17
Carthage	Neosho	.17	....	....	.29	....	....	....	....	....	....	....	....	....	.09	....	....	....	....	....	....	3.47	.41	....	.12	....	....	....	....	....	....	....	4.55
Cassville[2]	White	.86	.20	....	.09	T.	....	....	....	....	....	....	....	....	....	.05	....	....	....	....	....	....	2.06	....	T.	T.	....	....	....	....	....	....	3.26
Clinton[3]	Osage	.57	....	....	.04	....	....	T.	....	....	....	....	....	.05	.87	....	....	....	T.	.05	....	.40	.05	....	.03	....	....	....	....	....	....	....	2.06
Concordia	Missouri	.37	....	....	*	.01	....	....	....	....	....	....	....	....	.71	....	....	....	.08	.08	....	.17	....	....	T	....	....	....	....	....	....	....	1.42
Crocker	Osage	.50	....	....	T.	....	.04	....	....	....	....	....	....	....	.71	....	....	....	....	....	....	1.05	.30	....	.10	....	....	....	....	....	.17	....	2.87
Eldon	Missouri	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Eldorado Springs	Osage	.18	....	....	T.	....	....	....	....	....	....	....	....	....	.20	....	....	....	....	....	....	1.46	.10	....	.13	....	....	....	....	....	....	....	2.07
Elijah[2]	White	....	....	....	.04	.02	....	....	....	....	....	....	....	....	T.	.25	....	....	....	....	....	....	1.65	....	.05	.04	....	....	....	....	....	....	2.05
Fort Leonard Wood[2]	Gasconade	.95	T.	....	*	....	....	....	....	....	....	....	....	....	*	.58	....	....	....	....	....	*	1.85	....	.05	T.	....	....	....	....	.06	....	3.49
Galena[3]	White	.84	.02	....	.12	....	....	....	....	....	....	....	....	....	.01	....	....	....	....	....	....	....	3.71	....	.06	....	....	....	....	....	....	....	4.76
Granby[2]	do	.40	....	....	.12	T.	....	.03	....	....	....	....	....	....	.02	....	....	....	....	....	....	....	2.30	....	.10	....	....	....	....	....	....	....	2.97
Hailey	do	1.16	....	....	....	....	....	....	....	....	....	....	....	....	....	.07	....	....	....	....	....	2.81	.42	....	.14	....	....	....	....	....	....	....	4.60
Harrisonville[2]	Osage	.43	....	....	.01	.19	....	....	.04	....	....	....	....	....	.91	.35	....	....	T.	.05	....	....	.17	....	....	....	....	....	....	....	....	....	2.15
Jefferson City[2] (A)	Missouri	*	.03	....	....	.01	T.	....	....	....	....	....	T.	....	*	.85	....	....	....	*	.01	....	.63	....	*	.12	T.	....	....	T.	....	....	1.65
Jefferson City[2] (B)	do	.09	T.	T.	....	T.	T.	....	....	....	....	....	....	....	.19	.65	T.	....	....	....	.01	....	.67	....	.05	.07	....	....	....	....	T.	....	1.73
Joplin[1]	Neosho	....	....	....	.02	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	2.80	....	.05	.12	....	....	....	....	....	....	....	2.99
Lakeside[2,5]	Osage	.07	....	....	.05	.05	T.	T.	....	....	....	....	....	....	.26	.60	....	....	....	....	....	....	2.12	....	.11	.03	....	....	....	....	....	....	3.29
Lamar[2]	Neosho	.15	....	....	.14	.20	....	....	....	....	....	....	....	....	....	T.	....	....	....	....	....	....	.92	....	.30	....	....	....	....	....	....	....	1.71

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Stations	Drainage-basins	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Total
Southwestern Division—	*Concluded*																																
Lebanon	Osage	.58	.28		.10										.84	.04						.99	.59		.08						.04		3.54
Lexington[2]	Missouri																																....
Lockwood	Osage	.10			.16										.05	.02						1.20	.28		.07								1.88
Mansfield[2]	White	.17	.30	.11	T.											.38						.36	2.20		.02	.03							3.57
Marshall	Missouri	.54				T.	T.								.75							.19											1.48
Marshfield[2]	White		.01		.08			.01								.50							1.41		.05						.07		2.13
Mountain Grove[2]	Gasconade	.24	.09		.14										.11	.40						.26	1.49		.02	.03							2.78
Mount Vernon[2]	Neosho	.25			.12	T.	.03								*	.20							2.29		.08								2.97
Neosho	do	.17			.13		T.								.03							1.93	.65		.13								3.04
Nevada	Osage				.10	T.									T.	.06						.94	.13		.11								1.34
Osceola[2]	do	.17				.13			.02						.22	.55							.93		.08	.01							2.11
Ozark[2]	White	.61	T.		.10	.03									.24	.34							1.60		.08								3.00
Ozark Beach[2]	do	.25	.20		.04										.06	.18							1.43		.08								2.24
Pierce City[2]	Neosho				.11											.17							2.30		.09								2.67
Pleasant Hill[2]	Osage	.52				.17	.02							.20	1.11				.06	.15			.20		T.	T.							2.43
Roby	Gasconade	.10			.13		T.								.78	.06						1.56	.85		.06						.12		3.66
St. Thomas[2]. 2¼mi SW	Osage	.40													.48	.62							.84		.15	T.							2.49
Saunders Lookout[2]	White	.25	.22		.15	T.									.06	.16						.05	1.34		T.	.12							2.35
Sedalia	Missouri	.72			.03									.01	1.00				.01	.05		.23	.14		.03								2.22
Seligman[2]	Neosho	.94		.07	.06											.06				.09			3.90		.18								5.30
Seymour[2]....3½ mi. NE	White	.18	.05		.06	.04									.03	.55							2.00		.07								2.98
Shell Knob[2]...3 mi. SE	do	.50	.04		.05										T.	.05							1.50		.10	T.							2.24
Siloam Sprgs Lookout[2]	do															.21							1.34			.19							1.74
Springfield[1,5]. 4 mi. NW	do	.39			.03	T.	T.		T.						.21	T.			T.	T.		2.39	T.	T.	.05					T.			3.07
Stover[2]	Missouri	.15														1.76							.90		.05	T.							2.86
Swan Tower Lookout[2]	White																																....
Sweet Springs	Missouri	.68			.06	.03									.69					.08		.08	.12										1.74
Tecumseh[2]. ..¼ mi. W	White																																....
Topaz[2]	do														.32	.18							1.60										2.10
Vanzant[2]....3¾ mi. SE	do				.19										.12	.32							1.46		.07	.03							2.19
Warrensburg	Missouri	.43			.06	T.	T.								.72	.01				.13		T.	.17		T.								1.52
Warsaw[2].........(A)	Osage	.15			T.	T.	T.								.21	.98				.04			.87		.07								2.32
Warsaw[2].........(B)	do	.19													*	1.02							.97										2.18
Wasola[2]	White	.08			.12											.32							1.60			.10							2.22
Waverly[2]	Missouri	.20				T.									.19	.47				T.			.10										0.96
Wilderness Lookout[2]	White	.45	.21		.03											.16							1.83		.11	.05							2.84
Southeastern Division																																	
Advance[3].....¼ mile W	St. Francis	1.09			.01		T.		T.						.24							1.14	.45		.07								3.00
Alton(1)....10 miles SE	Black	.32				.04									.44	.07							.72										1.59
Alton(2)[2] ...7 miles NE	do																																....
Annapolis[2].....7 mi. W	do	1.35	.04			.01									.27	.16							2.60	T.	.02	.09							4.54
Arcadia[2]	St. Francis	.83	.09												.41								2.95		.10	.10					.19		4.67
Belleview[2]	Meramec	.59	.11			T.	T.								.32	.14						.01	2.01	.01		.06							3.25
Bernie[2]	St. Francis	.46	.57			.12	T.									.14						1.55	.53	.09		.11							3.57
Birch Tree[2] ...½ mile E	Black	.11	.06			T.									.34	.22							1.20		.02								1.95
Black...... 9 miles NW	do	.10													.58							1.12	.59		.06								2.45
Bloomfield[2]	St. Francis	.29	1.38												.24	.13						.61	.39	.11									3.15
Bunker[2]... 4 miles NW	Black	.06	.12												.15	.51							1.59										2.43
Campbell	St. Francis	.98				.28									.35	.05						1.30	.40										3.36
Cape Girardeau[2]	Mississippi	.17	.83			.02									.02	.05						1.87	.18	.03		T.							3.17
Caruthersville[2] ..(A)	do	1.33	1.87			.42									T.	.13						.68	1.62	.10									6.15
Caruthersville[2] ..(B)	do	1.18	1.90			.44									T.	.10						.67	1.64	.10									6.03
Centerville(1)[2]	Black	.47													.10	.50							1.24		.05	.06							2.42
Centerville(2)[2]	do	.65	.14												.20	.20							1.42	.01	.06	.08							2.76
Cook Station[2]	Meramec														.90								2.32										3.22
Crane Mountain[2]	St. Francis	1.39				.01									.48	.12						.05	3.80		.05	.04					.01		5.95
Crystal City	Mississippi	.20				.02									.11							*	1.61		.08	T.							2.02
Cuba	Meramec	.16					.03								.63							.87	.64		.30						T.		2.63
Deering[2]	St. Francis	1.77	1.54			.50	T.								.04	.10						.28	.65	.14									5.02
De Soto[2]	Mississippi	.30													.07	.08							1.84		.05	.05							2.39
Dexter[2]	St. Francis	.52	1.33			.07									T.	.18						.55	.46	.16		.04							3.31
Doniphan(1)	Black	.66			T	.11									.28							.06	.43		T.								1.54
Doniphan(2)[2]	do	.78	.68													.34							.56	.02	T.	.03							2.41
East End[2]	Meramec														.70	.20						.10	2.00										3.00
Eastwood Lookout[2]	Black	.95	.05												.03	.33							.91			.05							2.32
Ellington[2]	do	1.50	.05												.27	.24							1.90	.02	.02	.06							4.06
Ellsinore Lookout[2]	do	.23													.06	.18							.52			.09							1.08
Farmington[2]	St. Francis	1.24	.12												.02	.10						T.	2.52	T.	.03	.07					T.		4.10
Fisk[2]	do	.52	.60			.05									.23	.05						.20	.43	.05	T.	T.							2.13
Fredericktown[2]	do	.38	.25			T.									T.	.20						.20	6.00		T	.05							7.08
Gerald[2]	Meramec	.43				T.									T.	.23							.95		T.	.21							1.82
Greenville(1)	St. Francis	.35			T.																		3.22										3.57
Greenville[2] (2)	do	.42	.33												.42	.09						.03	1.95	.13	.02	.03							3.42
High Lookout[2]	Black	.19	.02		T.	T.									.14	.24							1.50		.02	.04							2.15
Jackson	Mississippi	.78			.03										.11							1.53	1.52										3.97
Jefferson Barracks[2]	Mississippi	.02	.25			T.										.14							1.02			T.							1.43
Jerome[2]	Gasconade	.53														.78							1.64		.46						.06		3.47
Koshkonong[2]	Black	.04	.22		.02	.01									.14	.19							1.55	.03		.04							2.24
Leeper[2]	do	.56	.21												.25	.20						.45	2.35			.04							4.06
Licking(1)... 4 miles N	Gasconade	T.													.70							.30	1.07										2.07
Licking(2)[2]	do	.06	.08												.20	.32							2.18			.05					.14		3.03
Macedonia Lookout[2]	Black		.17												*	.24							.96			.04							1.41
Malden[3]...4 miles NNW	Mississippi	.54			.01	.13			T.						.23							1.33	.44		T.								2.68
Marble Hill	do	.34			T.										.21							1.60	1.45										3.60
Meramec Park[2]	Meramec	.20	.02			T.									.22	.02							1.26		.04	.09							1.85
Morehouse	Mississippi	1.20				.08									.30							.44	.25		T.								2.27
Moselle[2]	Meramec	.35	.04													.14							1.38			.14							2.05
New Madrid[2]	Mississippi	.65	1.11			.52									.12	T.						.10	.12	.22		T.							2.84
Oates Tower[2]	Black																																....
Owensville[2]	Gasconade	.70	.04			.01									.20	.36							1.18		.12	.08							2.69
Pacific[2]	Meramec	.92				T.									.15	.07							.85		T.	.03							§2.02
Parma[2]	St. Francis	.45	1.07			.25										.16						.51	T	.32		.03							2.79
Perryville	Mississippi	1.00			T.	T.										.05						1.53	2.23		.21								5.02
Pilot Knob[2]... 2 mi. NE	St. Francis														.39							.18		3.00		.38							3.95
Poplar Bluff[2] ....(A)	Black	.16	.54													.11							.40										1.21
Poplar Bluff[2] ....(B)	do	.17	.46			.02									.07	.09						T.	.39	.02	T.	.03							1.25
Puxico[2]	St. Francis	.66	.56												.01	.21						.56	.68	.06		.09							2.83
Qulin[2]	do	.43	.45			.19									.38	.12						.66	.29	.07		T.							2.59
Reynolds[2]	Black	.33		.16											.27	.25							1.20		.06	.10							2.37
Richwoods[2]	Meramec	.06	T.												.15	T.							1.40		.03	T.							1.64
Rolla[2]	do	.90			T.	T.	T.								.27	.58							1.70		.07	.03					T.		3.55
Round Spring[2]	Black		.26													.58							1.14			.06							2.04

Continued on next page

Daily Precipitation for October 1945—Continued from preceding page

Stations	Drainage-basins	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Total
Southeastern Division –	*Concluded*																																
St. Louis:																																	
City Office[1], [5]	Mississippi	.10	....	....	T.	....	T.	....	....	....	T.	....	....	....	.14	....	....	....	....	T.	....	.79	.04	....	.01	....	....	....	....	....	....	....	1.08
Airport[3], [5]	Missouri	.42	....	....	T.	....	T.	....	....	....	....	....	....	T.	.16	....	....	....	....	T.	....	.56	.01	....	.07	....	....	....	....	....	....	....	1.22
St. Louis Univ.[1], [5]	Mississippi	.09	....	....	T.	....	....	....	....	....	....	....	....	....	.18	....	....	....	....	T.	....	1.11	.04	T.	.03	....	....	....	....	....	....	....	1.45
Washington Univ.[2]	....do	.41	.01	....	....	....	....	....	....	....	....	....	....	....	....	.13	....	....	....	....	....	....	1.63	....	.01	.01	....	....	....	....	....	....	2.20
Salem	Meramec	.14	....	....	T.	....	....	....	....	....	....	....	....	....	.56	.08	....	....	....	....	....	3.62	.83	....	.06	....	....	....	....	....	....	....	5.29
Sikeston[2]	Mississippi	.25	.99	....	....	.08	....	....	....	....	....	....	....	....	.08	.03	....	....	....	....	....	.51	.14	.09	....	.01	....	....	....	....	....	....	2.18
Steelville[2] ...2½ mi. NE	Meramec	.01	....	....	....	....	....	....	....	....	....	....	....	....	*	.59	....	....	....	....	....	....	1.84	.01	....	....	....	....	....	....	....	....	2.45
Summersville[2]	Black	.10	.14	....	T.	.03	....	....	....	....	....	....	....	....	T.	.31	....	....	....	....	....	....	1.25	....	....	.06	....	....	....	....	....	....	1.89
Union[2] ....1½ mi. SE	Meramec	.43	.13	....	....	....	....	....	....	....	....	....	....	....	.03	.15	....	....	....	....	....	....	.86	....	.07	.06	....	....	....	....	....	.02	1.75
Valley Park[2]	....do	.18	T.	....	....	T.	....	T.	....	....	....	....	....	....	.20	T	....	....	....	T.	....	....	1.15	....	T.	T.	....	....	....	....	....	....	1.53
Van Buren[2]	Black	.10	....	....	....	....	....	....	....	....	....	....	....	....	....	.37	....	....	....	....	....	....	1.71	....	....	....	....	....	....	....	....	....	2.18
Vichy[3] ..... 2 miles NW	Meramec	.44	....	....	T.	.02	.03	....	....	....	....	....	....	.01	.86	....	....	....	....	....	....	2.10	.02	.04	.12	....	....	....	....	.13	....	....	3.77
Wappapello Dam[2]	St Francis	.67	.60	....	....	.02	....	....	....	....	....	....	....	....	.16	.06	....	....	....	....	....	.03	.80	.01	T	.08	....	....	....	....	....	....	2.43
Webster Groves	Mississippi	.12	....	....	....	....	....	....	....	....	....	....	....	....	.10	....	....	....	....	....	....	.74	.30	....	.02	....	....	....	....	....	....	....	1.28
Weingarten	....do	.22	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.50	*	1.50	.10	....	....	....	....	....	....	....	2.32
West Plains[3]	Black	.01	....	....	.02	....	....	....	....	....	....	....	....	....	.26	....	....	....	....	....	....	1.46	.17	....	.05	....	....	....	....	....	....	....	1.97
Williamsville[2]	....do	.58	.46	....	....	....	....	....	....	....	....	....	....	....	....	.62	....	....	....	....	....	....	1.54	....	....	....	....	....	....	....	....	....	3.20
Willow Springs[2] 500 ft E	White	....	....	....	....	.09	....	....	....	....	....	....	....	....	.21	.49	....	....	....	....	....	....	1.53	....	.08	....	....	....	....	....	....	....	2.40
Winona Ranger Sta.[2]	Black	1.64	T.	....	....	....	....	....	....	....	....	....	....	....	*	.40	....	....	....	....	....	....	1.03	....	T.	....	....	....	....	....	....	....	3.07
Zalma[2]	Mississippi	.56	.34	....	....	....	....	....	....	....	....	....	....	....	.15	.10	....	....	....	....	....	.32	1.58	.10	T.	....	....	....	....	....	....	....	3.15
Cairo, Ill.[1], [5]	....do	1.20	....	....	.01	.08	T.	....	T.	....	....	....	....	....	.10	....	....	....	....	....	....	.49	.06	....	.03	....	....	....	....	....	....	....	1.97
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Except as otherwise indicated, amounts are for 24 hours ending late in afternoon. [1] Midnight to midnight. [2] Measured in the morning; for the preceding 24 hours. [3] Data for 24 hours ending 12:30 A. M. (C. S. T.) of following day. [5] Recording gage. T. Trace or 0.005 inch or less. * Included in next measurement. // Wind-shield on gage. Italics data interpolated. § Partly interpolated. (A) Record from cooperative station gage. (B) Record from river station gage. ‡ Received too late to be included in means and extremes.

Daily Evaporation (inches), Mean Temperature (F°), and Wind Movement (miles) for October 1945

(See precipitation data in daily precipitation table)

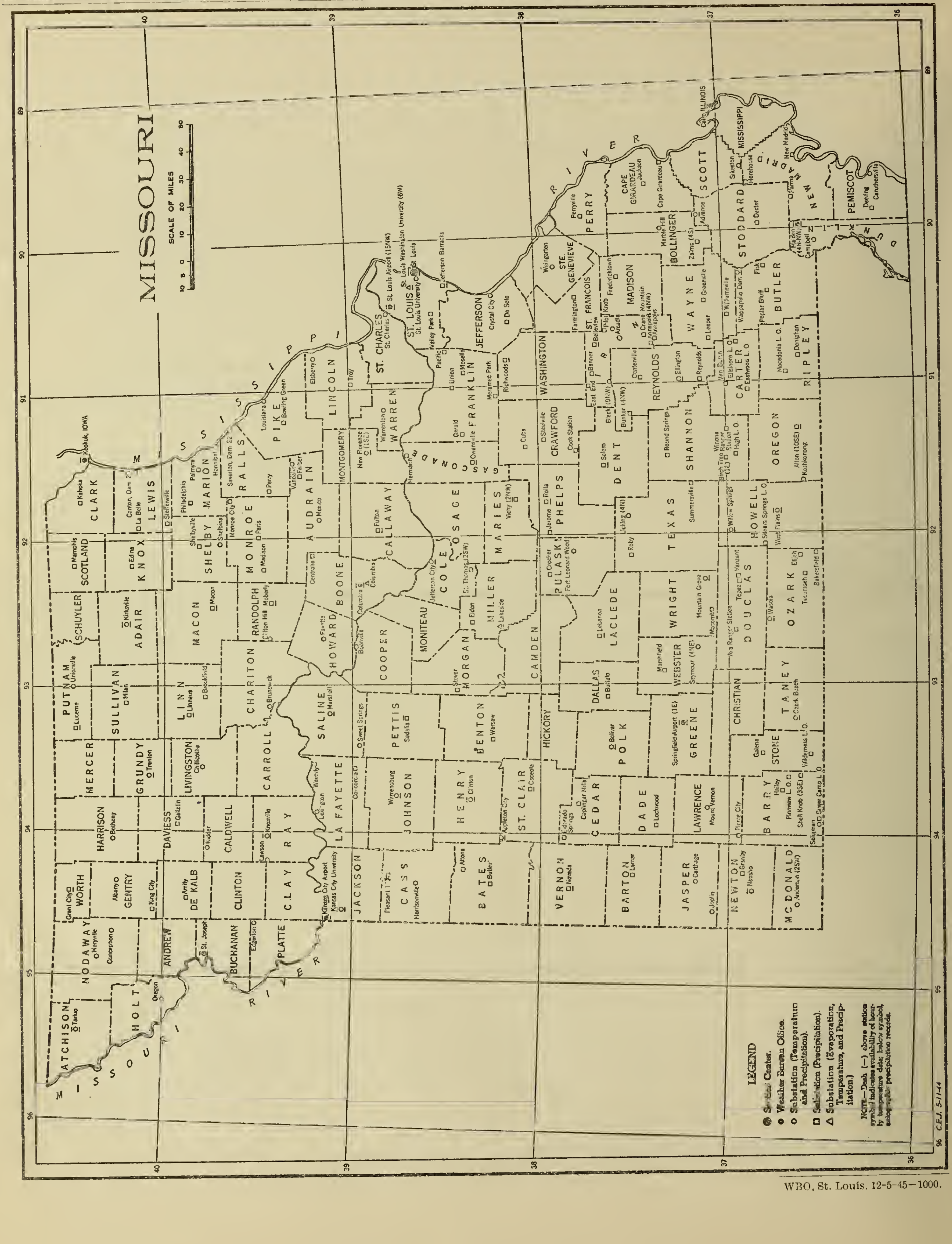
Station	Data	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Monthly
Columbia (Univ. of Mo. Hort. Exp. Sta. 9 mi. WNW.)	Evaporation	.083	.116	.120	.060	.038	.081	.158	.211	.081	.098	.072	.108	.132	.030	.039	.088	.091	.180	.199	.092	.038	.120	.070	.042	.078	.120	.210	.190	.102	.122	.147	3.316
	Mean temperature	60	56	53	54	60	64	60	58	44	50	58	60	56	52	46	52	64	68	60	54	58	44	42	46	52	45	57	62	64	61	57	55.4
	Wind movement	47	50	20	27	5	35	66	112	11	41	22	8	7	17	2	36	52	77	65	32	35	110	29	11	71	17	100	95	47	74	67	1,388
Lakeside (Osage Dam)	Evaporation	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.....
	Mean temperature	58	60	54	56	62	65	64	54	46	52	60	64	60	52	50	54	62	68	59	57	54	50	46	46	55	52	60	60	66	66	67	57.4
	Wind movement	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
St. Louis (Washington University)	Evaporation	.025	.028	.072	.068	.036	.077	.080	.151	.132	.078	.071	.074	.116	.057	.038	.058	.054	.072	.129	.116	.057	.104	.132	.057	.010	.092	.075	.100	.131	.061	.116	2.467
	Mean temperature	58	58	54	53	62	66	61	54	45	50	60	64	56	50	48	53	61	66	63	55	58	53	46	46	52	50	60	65	62	68	60	56.7
	Wind movement	18	10	23	9	12	15	16	55	44	19	21	20	22	11	15	20	11	26	39	21	18	80	73	41	10	32	19	27	32	20	52	831

Observations taken at 8:00 a. m. except at 7:30 a. m. at Lakeside. For Lakeside and St. Louis (Washington University) descriptions see April 1932 and August 1938 reports, respectively. * Included in next measurement.

Daily Temperatures for October 1945

Stations		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Northern Division																																	
Brunswick /	Maximum...	65	63	69	65	65	72	75	56	58	65	74	75	65	52	59	69	80	79	62	70	63	56	51	53	67	63	77	78	72	76	65	66.4
	Minimum ...	46	49	43	44	48	56	45	45	32	33	39	47	47	46	48	37	39	51	48	38	38	40	35	38	38	35	33	49	50	48	41	42.8
Chillicothe /	Maximum...	61	63	69	65	62	71	77	55	59	69	75	75	65	50	60	71	82	81	61	72	56	53	50	53	65	61	80	77	71	77	68	66.3
	Minimum ...	45	49	43	43	41	55	47	46	30	30	44	46	43	44	35	36	45	54	46	41	41	36	35	40	39	33	34	52	52	46	38	42.2
Columbia	Maximum...	66	65	68	65	69	74	76	57	58	65	74	78	67	54	60	70	81	81	65	73	68	57	54	51	69	64	78	78	75	79	67	67.9
	Minimum ...	51	45	42	48	56	48	44	39	34	39	48	46	46	43	38	39	52	58	42	37	46	41	35	39	39	34	51	52	57	54	45	44.8
Fayette	Maximum...	66	65	67	65	66	73	76	71	58	66	75	77	65	57	61	69	80	80	70	71	67	56	53	52	58	62	76	77	73	76	71	67.7
	Minimum ...	54	49	40	43	55	55	42	43	31	35	44	43	45	46	36	37	47	55	46	34	47	38	31	41	36	31	42	46	49	46	40	42.8
Grant City	Maximum...	61	64	68	64	64	69	76	68	58	69	75	72	67	58	62	72	80	83	75	70	62	56	48	48	61	63	80	76	69	75	58	66.8
	Minimum ...	46	46	41	44	54	52	47	42	*29*	42	45	46	40	40	36	40	51	56	42	39	46	31	34	38	31	34	45	48	51	44	34	42.4
Hannibal	Maximum...	64	63	65	68	67	73	75	59	54	62	74	70	63	53	58	68	79	78	66	70	69	59	54	53	64	60	77	72	72	74	61	65.9
	Minimum ...	50	48	43	45	54	55	47	35	31	37	47	49	39	41	34	40	50	56	46	41	45	39	35	39	37	35	40	51	53	51	38	43.6
Kansas City Airport.	Maximum...	67	66	69	59	62	74	79	56	61	70	78	78	61	56	60	74	82	83	63	75	63	55	48	53	66	69	79	77	71	80	67	67.8
	Minimum ...	51	49	46	53	56	51	46	40	32	46	51	48	47	48	42	45	58	57	44	40	44	35	38	41	41	38	56	58	55	48	45	46.7
Kirksville	Maximum...	60	62	66	65	61	70	75	68	53	62	73	69	60	55	57	68	79	77	71	68	61	54	50	53	60	60	77	75	70	72	68	65.1
	Minimum ...	49	48	41	44	54	55	46	43	32	40	45	47	38	41	34	40	51	58	45	39	48	36	34	38	37	32	43	51	54	46	45	43.7
Lawson	Maximum...	65	65	70	58	61	73	76	65	60	70	78	82	63	53	63	73	81	82	71	72	64	57	48	55	64	66	78	77	71	76	71	68.0
	Minimum ...	48	46	43	46	54	56	45	42	29	39	47	50	48	46	35	40	53	56	43	40	43	32	33	39	38	33	49	51	52	47	39	43.9
Louisiana	Maximum...	66	65	68	71	73	72	72	71	55	61	74	74	67	60	60	70	80	80	75	70	71	59	55	53	68	62	78	74	79	77	74	68.8
	Minimum ...	54	51	38	41	55	60	42	46	30	34	48	45	37	44	31	35	33	56	51	33	50	43	30	42	36	32	35	52	42	51	40	42.5
Macon /	Maximum...	64	66	68	65	63	74	75	55	58	64	75	75	66	50	60	69	80	80	61	72	65	57	52	66	65	63	78	77	74	75	64	67.1
	Minimum ...	45	48	40	42	48	55	47	45	31	33	41	47	40	40	33	34	41	52	45	43	44	37	32	36	39	33	33	52	54	46	36	41.7
Maryville	Maximum...	62	63	68	60	64	69	75	68	56	67	74	71	61	57	60	71	79	80	67	69	59	55	48	50	61	62	77	77	66	73	60	65.5
	Minimum ...	46	45	42	43	54	52	44	41	31	38	45	47	44	45	37	39	50	52	39	36	44	28	37	38	34	31	45	51	49	44	38	42.2
Mexico /	Maximum...	64	65	69	66	71	72	76	56	55	60	73	75	66	49	59	70	81	80	63	74	68	56	54	51	67	65	78	78	84	77	66	67.4
	Minimum ...	48	49	41	41	46	56	45	44	30	35	42	46	40	44	33	37	44	50	47	38	40	39	31	36	39	34	39	47	52	53	40	42.1
Moberly /	Maximum...	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
	Minimum ...	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
Oregon	Maximum...	63	63	69	60	63	69	75	70	57	71	73	73	63	55	61	72	82	81	73	70	66	68	52	53	63	66	81	78	71	74	65	67.7
	Minimum ...	46	46	46	49	54	54	50	41	29	42	44	47	47	47	36	47	52	58	41	43	44	29	36	37	36	33	52	54	53	36	40	44.2
St. Charles /	Maximum...	66	63	65	66	74	70	78	66	59	61	77	77	66	47	59	70	81	82	67	75	69	59	55	48	65	81	84	80	79	70	70	68.7
	Minimum ...	50	52	41	44	54	57	45	50	33	37	46	49	43	46	36	36	46	54	56	38	51	46	38	43	37	40	45	45	56	50	50	45.6
St. Joseph	Maximum...	64	65	70	58	63	71	78	55	59	71	76	79	64	53	64	73	82	84	62	71	58	57	49	50	63	66	81	77	70	75	60	66.7
	Minimum ...	47	47	47	50	54	52	49	36	30	43	47	48	49	47	39	44	56	49	45	42	43	33	39	38	39	35	55	55	57	49	42	45.4
Trenton	Maximum...	55	65	69	67	62	72	77	70	59	71	77	72	68	59	66	72	82	82	75	71	68	55	51	62	65	66	80	78	70	79	71	68.9
	Minimum ...	49	48	40	42	52	53	44	45	29	40	46	44	42	44	35	46	52	54	45	38	40	33	35	38	42	35	43	48	49	44	36	42.9
Unionville /	Maximum...	61	66	68	66	62	72	77	56	59	65	80	74	65	54	63	70	80	79	67	69	55	60	52	55	64	62	78	75	72	72	65	66.5
	Minimum ...	42	45	43	44	46	54	46	42	29	30	41	43	37	39	33	35	42	50	42	38	40	33	33	34	35	30	30	47	50	44	32	39.6
Warrenton	Maximum...	66	68	65	67	72	71	76	69	57	62	76	78	67	60	59	70	80	81	70	72	70	59	55	50	68	65	80	81	78	79	71	69.1
	Minimum ...	55	49	38	41	51	56	42	46	28	33	43	47	38	45	32	35	45	51	45	34	50	*39*	30	41	35	31	42	50	54	53	47	42.8
Keokuk, Iowa	Maximum...	62	63	66	70	64	72	76	51	53	59	74	67	61	56	57	69	79	76	66	68	65	55	51	54	62	60	78	77	70	72	56	64.8
	Minimum ...	50	45	43	50	56	52	50	40	32	40	48	48	41	38	35	44	55	62	46	43	47	40	39	41	39	34	45	55	53	50	39	45.2
Southwestern Division																																	
Clinton	Maximum ..	67	66	63	61	64	67	74	63	55	67	73	72	64	54	58	70	78	80	66	77	61	57	54	54	72	70	78	80	78	78	74	67.6
	Minimum ...	53	48	44	48	55	50	48	38	32	39	47	48	54	50	42	41	50	56	42	36	46	36	36	40	38	35	48	48	53	52	54	45.4
Eldon	Maximum...	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
	Minimum ...	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
Harrisonville /	Maximum...	68	70	66	58	60	77	77	63	59	70	80	83	63	53	64	73	80	82	66	75	58	58	48	55	71	68	78	76	75	79	67	68.4
	Minimum ...	46	47	41	53	52	53	46	42	29	44	45	48	51	49	39	39	46	55	42	38	41	34	35	39	34	32	35	35	47	45	45	42.8
Jefferson City	Maximum...	68	66	66	66	73	72	77	67	58	67	75	79	68	58	60	70	82	82	72	74	70	58	56	52	70	66	78	80	78	78	70	69.7
	Minimum ...	55	50	40	44	44	57	42	41	29	32	43	43	48	46	36	34	46	57	48	33	47	41	32	36	34	32	46	45	46	50	49	42.8
Joplin	Maximum...	65	67	68	60	63	66	79	67	59	66	74	78	77	68	63	70	78	81	68	76	65	57	59	50	70	72	75	76	76	78	80	69.4
	Minimum ...	57	55	50	56	57	57	53	47	40	43	52	58	58	54	49	45	58	62	49	47	46	41	41	42	41	45	55	56	60	63	63	51.6
Lamar /	Maximum...	67	68	66	62	62	68	74	60	58	68	76	80	75	66	63	70	80	81	68	77	63	59	58	57	70	71	77	78	78	80	81	69.7
	Minimum ...	52	48	45	45	53	53	51	51	34	34	40	44	53	53	46	40	40	54	50	37	41	38	35	38	36	36	36	45	51	54	57	44.8
Lebanon	Maximum...	65	66	64	64	69	66	74	67	58	66	76	80	75	73	59	72	78	80	66	75	71	59	56	53	69	68	76	76	77	77	76	69.4
	Minimum ...	49	49	43	50	49	56	50	49	30	34	43	52	51	49	38	39	53	53	54	37	58	39	31	43	34	34	49	53	52	57	54	46.2
Lexington /	Maximum...	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
	Minimum ...	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
Marshall	Maximum...	71	72	68	70	71	77	77	78	59	75	79	78	73	62	61	73	84	85	85	77	71	69	58	56	73	74	79	78	75	78	79	73.1
	Minimum ...	53	50	45	49	55	56	48	44	32	39	47	47	48	47	36	41	52	59	46	41	41	37	34	42	39	42	35	51	52	47	41	45.0
Mountain Grove	Maximum...	66	69	66	60	66	68	73	68	59	63	73	80	77	63	60	69	75	77	74	73	73	60	58	55	68	66	76	76	75	77	77	69.0
	Minimum ...	58	50	44	48	48	53	53	48	32	35	43	53	50	47	39	40	45	50	55	45	57	41	33	44	34	36	43	48	48	55	55	46.2
Neosho	Maximum...	67	70	71	65	65	65	76	65	62	68	76	80	79	70	65	67	80	82	75	78	73	64	61	60	70	74	78	78	79	80	82	71.8
	Minimum ...	57	48	42	55	55	51	42	53	34	36	42	49	49	56	46	38	50	57	53	38	47	40	33	43	33	36	43	47	51	55	60	46.4
Nevada	Maximum...	70	70	65	62	61	76	76	71	64	70	80	85	73	67	68	74	81	83	82	78	73	61	58	57	74	73	78	78	79	79	79	72.4
	Minimum ...	55	47	45	45	55	52	54	49	32	38	45	52	55	51	45	40	52	59	48	36	47	39	36	41	36	35	50	47	51	51	59	46.7
Sedalia	Maximum...	67	65	66	63	67	73	76	72	58	68	75	79	72	61	60	70	80	81	75	75	70	56	53	53	69	66	76	78	75	77	75	69.4
	Minimum ...	55	48	45	50	55	64	46	45	32	38	48	50	48	49	36	41	54	59	46	39	48	37	34	42	39	34	51	51	55	49	46	46.3
Springfield . 4 mi. NW	Maximum...	65	66	63	64	64	64	72	62	58	66	74	79	73	58	59	70	78	81	64	75	66	57	56	49	68	67	75	76	77	76	78	67.7
	Minimum ...	54	49	45	52	51	53	52	41	34	36	43	52	51	50	43	39	48	53	44	41	44	39	37	38	34	38	45	49	52	55	56	45.7
Warrensburg	Maximum...	69	67	67	60	63	..	76	74	59	69	75	80	73	61	61	71	79	81	76	74	70	58	52	53	70	66	78	77	74	77	75	[a]69.5
	Minimum ...	53	50	47	50	55	53	50	46	33	40	49	53	51	49	40	42	53	57	45	44	47	37	35	41	39	37	50	51	55	49	46	46.7
Southeastern Division																																	
Arcadia /	Maximum...	72	72	67	66	75	77	75	65	60	65	75	82	70	55	60	74	78	80	78	76	75	63	62	50	68	70	80	80	79	80	80	71.3
	Minimum ...	50	51	41	41	47	48	45	45	32	31	31	42	42	42	31	32	32	38	49	38	38	45	38	37	31	31	32	42	48	55	57	40.7
Birch Tree . . ½ mile E	Maximum...	73	70	65	61	69	76	73	63	59	64	74	81	70	58	59	71	76	78	69	73	74	62	63	68	70	71	74	79	76	79	79	70.2
	Minimum ...	50	50	42	50	48	48	52	42	32	30	36	43	50	48	39	32	37	40	40	46	58	42	35	45	52	50	51	49	41	42	52	44.3
Caruthersville /	Maximum...	76	72	66	61	65	73	74	63	56	59	69	78	70	55	58	64	73	76	77	72	69	52	59	59	53	63	73	77	75	76	78	67.5
	Minimum ...	60	56	51	53	52	56	55	54	40	40	41	42	47	51	44	38	38	44	48	52	56	52	45	45	43	43	42	45	45	50	53	47.8
Crystal City	Maximum...	70	69	66	67	75	76	78	65	60	65	78	80	71	61	62	72	81	82	76	76	72	68	60	53	72	66	83	82	80	83	72	71.6
	Minimum ...	59	49	40	43	48	57	45	51	31	34	43	45	41	46	38	33	39	44	61	34	47	50	39	44	33	32	35	42	45	55	59	43.9
Doniphan	Maximum...	80	75	70	65	69	*80*	77	68	62	67	75	85	74	66	62	73	80	81	80	75	79	70	66	55	66	70	78	80	78	81	82	73.2
	Minimum ...	64	50	44	49	53	56	50	56	32	30	34	46	42	47	39	31	36	39	51	55	53	*47*	*36*	39	*32*	35	32	36	36	49	53	43.6
Farmington	Maximum...	70	68	65	65	73	75	74	64	56	63	74	79	67	56	56	72	77	79	68	74	65	60	57	50	67	65	78	79	76	78	75	68.5
	Minimum ...	59	49	41	45	47	55	45	49	32	31	43	44	42	47	35	31	41	48	56	35	55	45	36	42	33	35	44	50	53	55	56	44.5
Jackson	Maximum...	74	73	67	65	71	76	74	69	68	83	71	81	75	63	57	68	77	78	73	73	67	63	59	56	63	62	73	77	73	75	76	70.3
	Minimum ...	65	50	44	46	50	55	66	56	42	33	29	44	44	48	39	31	39	41	52	46	47	46	39	38	38	36	36	43	45	51	52	44.9
Poplar Bluff	Maximum...	79	70	70	62	69	80	80	65	67	65	73	83	72	55	60	71	77	80	80	75	80	66	65	55	67	71	77	80	73	80	81	71.9
	Minimum ...	68	50	45	50	52	55	59	50	35	32	36	45	49	49	40	33	42	42	50	52	55	47	42	41	33	33	34	37	37	50	55	45.1
Rolla /	Maximum...	66	68	63	62	71	72	75	59	57	65	77	80	67	50	58	70	79	80	66	74	69	57	56	48	70	66	79	78	79	77	75	68 2
	Minimum ...	51	47	44	48	49	55	48	47	32	33	45	50	54	48	42	40	50	53	55	39	57	42	35	42	35	36	48	53	53	58	56	46.6
St. Louis	Maximum...	65	64	65	66	73	71	75	65	54	61	75	75	66	54	56	69	79	80	64	72	69	57	55	50	69	62	81	80	78	80	68	67.7
	Minimum ...	59	53	49	50	54	59	53	43	39	44	50	54	50	46	40	42	51	56	54	45	48	45	41	43	40	42	45	57	55	60	52	49.0
Salem	Maximum...	68	68	67	63	73	76	75	66	57	67	76	80	70	60	57	72	79	81	68	75	76	60	59	51	71	68	79	79	78	79	79	70.2
	Minimum ...	59	49	42	47	49	58	49	49	31	32	41	49	49	48	40	35	45	49	50	37	56	44	33	44	33	32	41	48	49	56	53	45.1
Sikeston /	Maximum...	75	76	68	65	78	80	79	65	62	64	73	84	72	56	61	71	78	81	79	77	69	52	62	58	66	69	76	80	77	79	82	71.4
	Minimum ...	57	52	50	49	53	59	50	56	34	34	39	48	47	48	44	35	41	48	51	51	55	48	39	42	38	36	42	41	45	52	55	46.4
Union ......1½ mi. SE	Maximum...	66	77	66	68	73	74	76	66	57	64	76	78	68	59	58	69	80	81	75	73	71	60	55	51	68	63	79	80	79	80	74	69.8
	Minimum ...	57	48	39	40	48	60	42	48	30	30	41	42	40	48	34	32	39	51	51	33	50	40	33	44	32	31	34	40	42	62	55	42.5
West Plains	Maximum...	73	72	66	62	67	76	74	64	60	66	75	82	71	53	61	72	79	80	67	75	74	62	64	52	68	69	78	78	78	80	80	70.3
	Minimum ...	56	49	43	50	50	55	48	40	32	30	36	46	49	47	35	32	38	40	50	48	48	38	34	36	30	33	36	41	40	48	51	42.2
Cairo, Ill.	Maximum...	75	73	67	62	65	75	74	64	58	60	70	79	67	56	58	67	74	76	74	72	67	64	59	57	63	64	72	76	75	76	78	68.3
	Minimum ...	64	56	51	52	57	62	56	47	40	40	44	51	51	50	43	41	46	52	56	53	63	50	43	48	42	42	43	50	52	55	58	50.3

/ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs. [a], [b], [c], etc., number of days missing, for example, [b] indicates two days missing. Italics data interpolated. § Partly interpolated.



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CLIMATOLOGICAL DATA

MISSOURI SECTION

H. F. WAHLGREN
ST. LOUIS, MO.

VOL. XLVIV NOVEMBER 1945 No. 11

PRICE: 5 CENTS A COPY; 25 CENTS A YEAR

GENERAL SUMMARY

The month of November was both warmer and drier than normal and the mild open weather was favorable for most seasonal outdoor activities and for livestock on range.

Temperatures were moderate, as a rule, with no unusual extremes being reported. Maxima in the high 70's and lower to middle 80's were quite general on the 1st, 6th, 7th, and 8th, while the lowest temperatures, ranging from a low of 6° to as high as the low 20's, occurred between the 22d and 24th, at most stations. There were no zero temperatures recorded anywhere in the State during the month. The Southeastern Division had the highest monthly average of 48.0°, or 2.1° warmer than normal and the Northern Division had the lowest with 43.2°, or 0.9° warmer than normal. The average for the Southwestern Division was 47.7°, +1.8°. The 1945 growing season, at stations which did not have a killing frost in October, was brought to a close at most stations on the 4th; however a few stations did not have a killing frost until the 9th, 14th, 15th, or 22d. There was an average of 15 days with minimum temperature 32°, or lower, during the month.

Precipitation was mostly in the form of rain during November and averaged considerably below normal in all three divisions, particularly in the Northern and Southwestern Divisions, where the monthly averages were only 0.95 and 0.70 inch, respectively. The Southeastern Division received an average of 2.52 inches during the month, with several stations in that division reporting monthly totals of 4 or 5 inches. The driest area was in the southwestern counties of the State, where monthly totals were generally less than one-half inch and locally in Jasper and McDonald counties less than one-quarter inch. The extreme southeastern group of counties was the wettest area during the month. The first snowfall of the season fell on the 20th-21st, but was mostly light to moderate. Measurable snowfall was confined to the northern third of the State, as a rule, and amounts were less than two inches at most stations, except in Putnam, Sullivan, and Adair counties, where amounts of three to four inches fell. The snow quickly melted and the ground was not covered for more than three or four days anywhere, although drifts remained unmelted for several days at some stations.

River stages were generally at low levels during the month and there were no overflows in any of the major streams of the State.

Sunshine averaged slightly more than normal for November.

There were only two damaging windstorms reported during the month although high winds were prevalent on several days. Light hail fell at several stations on various dates.

Good progress was made in gathering the corn crop. Cotton picking was interrupted by frequent precipitation in the southeastern counties and yields were very disappointing, being the poorest in several years. The good progress made by the fall wheat crop during October was retarded somewhat during November by dry weather, particularly in the Northern and Southwestern Divisions of the State and more moisture was needed at the close of the month in those divisions. The acre-

(Continued on page 83)

PRESSURE, WIND, HUMIDITY, AND SUNSHINE

Stations	Sea-level pressure, extremes-inches				Wind				Relative humidity			Percentage of sunshine	Degree days
	Highest	Date	Lowest	Date	Average hourly velocity	Maximum velocity	Direction	Date	6:30 a. m.	12:30 p. m.	6:30 p. m.		
Columbia	30 47*	10	29.48*	1	9.0	27	sw.	12	78*	54*	59*	55	591
Kan. City Airp't*	30.44	10	29.40	8	11.3	40	sw.	8	74*	54	52	76	566
St. Joseph	30.45*	10	29.39*	1	9 5	30	nw.	8	80*	52*	60*	69	633
St. Louis	30 47*	15	29.51*	1	14.1	45	sw.	8	76	60	61*	55	576
Springfield	30.41	10	29.55	1	15.0	43	sw.	8	88	69	71	63	551
Cairo, Ill.	30.50	15	29.65	1	11.4	34	nw.	8	79	58	..	56	471
....	.....	..	.....	..	....	..	......	..	..	..	..	..	....

* Data for Airport station.

COMPARATIVE DATA FOR NOVEMBER

Year	Temperature			Precipitation					Number of days			
	Average for State	Highest	Lowest	Average for State	Average, Northern Division	Average, Southwestern Division	Average, Southeastern Division	Snowfall, Average for State	Precip. .01 inch or more	Clear	Partly cloudy	Cloudy
1888	41.6	87	15	3.39	2.57	2.95	4.64	....	7	..	..	..
1889	39.9	76	6	3.52	3.16	3.12	4.29	0.6	7	..	..	..
1890	46.5	80	14	2.38	1.96	2.48	2.70	T.	5	..	..	..
1891	39.6	82	− 7	4.14	2.67	3.24	6.51	....	8	..	..	..
1892	40.1	79	9	2.75	2.17	2.14	3.95	1.0	6	11	7	12
1893	40.9	79	− 1	1.70	1.32	1.60	2.17	0.3	4	14	9	7
1894	41.0	80	3	1.56	1.59	1.71	1.39	T.	4	15	9	6
1895	41.6	82	− 4	3.60	2.62	3.42	4.76	3.2	8	10	7	13
1896	42.3	82	− 5	2.43	1.47	2.30	3.53	0.2	6	11	7	12
1897	43.4	82	− 3	2.63	1.92	2.02	3.96	T.	6	13	8	9
1898	39.9	79	− 8	2.32	2.03	2.43	2.50	2.3	6	14	8	8
1899	49.5	82	16	2.02	1.38	2.00	2.67	0.2	7	11	9	10
1900	43.7	84	7	2.99	1.52	2.71	4 75	0.2	6	15	7	8
1901	43.6	84	9	1.48	0.99	1.63	1.82	0.3	4	17	7	6
1902	50.1	85	18	3.73	3.05	3.64	4.51	0.4	9	8	9	13
1903	40.9	79	2	1.27	1.24	1.09	1.48	1.1	5	13	8	9
1904	46.3	83	11	0.22	0.18	0.24	0.24	T.	2	21	5	4
1905	45.8	83	2	1.87	2.36	1.35	1.89	T.	6	18	6	6
1906	42.5	88	− 3	3.56	2.55	2.68	5.44	5.0	8	12	6	12
1907	43.8	88	11	2.24	1.39	1.91	3.43	T.	4	19	4	7
1908	47.6	87	9	3.90	2.70	4.67	4.33	0.2	8	15	7	8
1909	53.6	87	11	4.32	3.92	4.98	4.05	0.4	8	12	7	11
1910	42.0	83	11	0.35	0.31	0.22	0.52	0.1	3	15	8	7
1911	39.1	83	− 3	2.63	2.07	2.78	3.04	1.1	7	13	6	11
1912	45.9	85	12	1.50	1.46	1.31	1.73	0.1	3	20	5	5
1913	51.7	80	11	2.71	2.61	2.69	2.83	T.	7	10	8	12
1914	48.6	89	2	0.69	0.36	0.64	1.08	0.1	3	19	6	5
1915	49.5	87	12	2.83	2.30	2.78	3.42	0.1	5	16	7	7
1916	46.9	85	3	2.46	2.25	2.63	2.51	0.1	4	19	4	7
1917	46.1	80	8	1.23	0.10	1.61	1.98	T.	3	14	5	11
1918	44.9	85	12	3.26	2.85	4.14	2.78	1.2	6	15	4	11
1919	42 2	78	2	3.57	3.06	3.19	4.45	1.0	6	15	5	10
1920	40.9	82	6	1.06	1.64	0.82	0.73	T.	6	12	6	12
1921	45.6	84	10	3.11	0.89	1.59	6.85	0.4	5	13	7	10
1922	47.8	84	15	3.68	3.70	3.97	3.38	T.	7	16	6	8
1923	45.1	79	14	2.25	1.39	2.79	2.57	3.0	6	15	6	9
1924	46.7	88	4	1.78	1.16	2.08	2 09	0.5	4	15	8	7
1925	42.8	80	− 2	3.05	1.74	2.78	4.63	2.0	6	16	6	8
1926	39.6	78	0	3.01	2.13	2.86	4.04	4.3	7	11	7	12
1927	46.8	89	12	3.66	2.07	3.78	5.13	0.9	7	6	9	15
1928	44.6	79	9	5.02	5.91	4.88	4.26	0.5	10	13	4	13
1929	39.0	78	− 8	1.46	1.40	1.00	1.98	2.1	6	11	8	11
1930	45.8	83	8	2.93	2.94	3.28	2.56	T.	5	18	5	7
1931	52.2	87	17	5.42	5.58	5.32	5.35	1.4	11	10	5	15
1932	39.5	75	− 9	1.87	1.55	2.11	1.95	4.5	5	16	5	9
1933	45.9	83	7	0.93	0.47	0.96	1.37	0.2	4	16	6	8
1934	48.5	84	16	5.71	5.62	5.84	5.67	4.6	10	14	5	11
1935	42.2	82	10	4.16	4.52	4.69	3.28	0.1	10	8	4	18
1936	42.2	79	0	1.89	1.15	2.04	2.49	1.4	3	21	4	5
1937	41.0	90	− 7	1.85	1.58	1.87	2.11	4.1	7	15	6	9
1938	45.9	89	2	4.28	4.01	4.64	4.20	1.3	6	17	5	8
1939	43.5	78	12	2.58	2.36	2.97	2.42	0.0	7	13	6	11
1940	42.2	83	− 2	3.46	2.77	3.31	4.29	1.2	9	12	7	11
1941	45.5	85	10	2.29	2.00	2.32	2.55	1.9	7	14	5	11
1942	47.9	82	6	4.27	3.81	3.42	5.58	0.8	11	11	6	13
1943	42.7	81	9	0.93	0.97	0.71	1.12	0.4	3	17	7	6
1944	47.0	88	1	2.34	2.89	1.98	2.16	0.2	9	7	8	15
1945	46.3	86	6	1.39	0.95	0.70	2.52	0.2	5	14	8	8
....	....	..	....	....	....	....	....	....	..	..	..	..
....	....	..	....	....	....	....	....	....	..	..	..	..
....	....	..	....	....	....	....	....	....	..	..	..	..
Period	**44.5**	**90**	**− 9**	**2.65**	**2.20**	**2.57**	**3.18**	**1.0**	6	**14**	6	**10**

Climatological Data for November 1945

Stations	Counties	Elevation, feet	Temperature, in degrees Fahr. Length of record, years	Mean	Departure from the normal	Highest	Date	Lowest	Date	Precipitation, in inches Length of record, years	Total	Departure from the normal	Greatest in 24 hours	Date	Total snowfall, unmelted	Number of days With precip., .01 inch or more	Clear	Partly cloudy	Cloudy	Prevailing direction of wind	Observers
Northern Division																					
Albany	Gentry	930	4	42.7	......	78^{a}	6	12	22	16	1.64	−0.07	1.22	8	2.0	5	18	6	6	s.	Curtis E. Grace
Bethany	Harrison	916	50	41.5	− 1.3	77	6	16	22†	52	0.88	−1.16	0.47	12	0.5	3	23	0	7	sw.	B. A. McGregor
Brookfield	Linn	767	4	43.8	......	79	6	15	22	4	1.45	......	0.74	16	0	3	19	3	8	e.	G. F. Breen
Brunswick	Chariton	652	64	43.2	+ 1.6	80	6	18	22	66	1.13	−1.06	0.48	12	T.	5	15	6	9	nw.	O. K. Benecke
Canton, Lock & Dam 20	Lewis	488	7	42.4	......	78	7	9	22	15	1.61	−1.10	0.71	12	0 5	6	13	7	10	nw.	Lockmaster
Chillicothe	Livingston	779	36	41.8	+ 0.5	79	6	15	22	39	0.71	−1.41	0.30	16–17	*1.0*	4	24	0	6	se.	Wm. J. Olenhouse
Clifton Hill	Randolph	731	46	44 4	+ 1.0	81	6	16	22	36	1.19	−0.79	1.00	11	0.8	3	7	11	12	w.	Dr. A J. Bradsher
Columbia	Boone	740	55	45.9	+ 1.8	82	6	19	22	55	0.30	−1.90	0.20	12	T.	3	12	13	5	s	U. S. Weather Bureau
Conception	Nodaway	1,108	56	42.0	+ 0.6	76	6	10	22	61	0.34	−1.40	0.19	8	1.0	3	17	9	4	nw.	Fr. Adelhelm Hess
Edgerton	Platte	856	25	44.6	+ 2.8	81	6	11	22	42	0.57	−1.40	0.35	8	*0.8*	3	20	7	3	se.	Paul C. Handley
Elsberry	Lincoln	449	14	44.6	+ 1.2	82	7	17	4†	14	1.21	−1.61	0.75	12	*T.*	4	12	10	8	nw.	Soil Conservation Service
Fayette	Howard	760	65	44.8	+ 2.6	81	6	18	22	62	0.58	−1.52	0.33	12	T.	3	14	10	6	sw.	Irvin E. Schnell
Fulton	Callaway	818	57	44.5	+ 0.3	79	6	18	22	53	0.96	−1.35	0.70	12	*T.*	5	16	8	6	sw.	Frank E. Hillgartner
Grant City	Worth	1,134	41	40.9	− 1.0	76	6	11	22	53	§0.31	−1.54	0.23	7	0.8	3	17	10	3	n.	J. Homer Korn
Hannibal	Marion	759	53	42 8	+ 0.7	79	7	15	22	61	1.45	−0.61	0.73	12	T.	7	9	13	8	s.	Hannibal Water Dept.
Kansas City Airport	Jackson	741	56	46.2	+ 2.5	81	6	20	22	56	0.60	−1.62	0.24	12	0.5	5	14	8	8	nw	U. S. Weather Bureau
Kansas City Univ	Jackson	908	7	47.2	......	82	6	19	22	7	0.61	......	0.40	8	0.1	5	10	13	7	sw.	University of Kansas City
Kidder	Caldwell	1,020	53	41.4	− 0.4	77	6	10	22	57	0.64	−1.51	0.34	8	1.0	4	17	4	9	s	Mrs. Geraldine Terry
Kirksville	Adair	969	56	42.0	+ 1.4	76	6	13	22	63	1.45	−0.67	0.47	12	2.5	4	22	4	4	nw.	Dr. Willis J. Bray
Knoxville	Ray	960	0	43.2	......	79	6	16	22	1	0.55	......	0.27	12	T.	4	21	0	9	nw.	C. C. A. Station
Lawson	Ray	1,070	7	43.6	......	79	6	14	22	7	0.52	......	0.27	12	1.2	3	13	12	5	sw.	Elmer E. Lamb
Louisiana	Pike	469	51	44.8	+ 0.7	81	7	18	4†	64	0.96	−1.50	0.55	12	*T.*	6	13	12	5	nw.	Stark Bro's Nurseries
Macon	Macon	875	46	42.0	− 0.8	79	6	15	22	52	1.41	−0.75	0.53	16	T.	7	9	6	15	nw.	John W. Atwell
Maryville	Nodaway	1,169	55	41.0	+ 1.6	75	6	6	22	51	0.93	−0.99	0.62	8	2.5	3	19	3	8	nw.	R. B. Montomery
Memphis	Scotland	787	6	40.0	......	77	6	12	22	15	§0.84	−2.15	0.52	12	1.6	3	6	8	16	sw.	John W. Alexander
Mexico	Audrain	800	56	43.2	+ 0.3	78	6	18	22	67	1.00	−1.23	0.90	12	*T.*	4	8	7	15	s.	Darrence W. Stuart
Moberly 3½ mi. NE	Randolph	860	8	....	......	..	..	..	..	8	....	......	....	..	....	..	..	..	..	......	F. W. Bell
New Florence. 1 mi SE	Montgomery	885	2	43.6	......	78	7	18	22	3	1.13	......	0.90	12	T.	3	10	9	11	nw.	U. S. Weather Bureau
Oregon	Holt	1,048	89	43.9	+ 3.4	79	6	12	22	89	§0.27	−1.71	*0.15*	20–21	*2.0*	3	16	10	4	sw.	James M. Curry
St. Charles	St. Charles	520	57	46.0	+ 0.7	81	1	20	22	67	1.24	−0.87	0.53	13	*T.*	6	11	16	3	nw.	Martin L. Comann
St. Joseph	Buchanan	957	35	41.0	+ 2.5	80	6	17	22	73	0.42	−1.16	0.36	8	0.5	3	18	8	4	nw.	U. S. Weather Bureau
Saverton, Lock No. 22	Ralls	472	7	45.0	......	80	7	19	22	7	0.91	......	0.30	12	*T.*	9	17	7	6	se.	Lockmaster
Shelbina	Shelby	779	4	42.8	......	80	7	15	22	52	1.04	−1.06	0.48	12	*T.*	5	11	7	12	sw.	Guyman Hatcher
Steffenville	Lewis	650	47	42.8	− 0.7	78	7	15	22	52	1.10	−1.09	0.57	12	0.3	5	11	11	8	nw.	Mrs. Fannie V. Gross
Tarkio	Atchison	916	42	40.4	+ 0.3	77	6	14	22	51	0.69	−1.05	0.57	8	1.2	3	15	9	6	nw.	C. A. A. Station
Trenton	Grundy	822	49	43.6	+ 1.4	78	6	15	22	50	0.65	−1.47	0.23	9	2.0	5	11	13	6	s.	W. H. Estes
Unionville	Putnam	1,062	52	39.2	− 1.1	77	6	10	22	52	0 81	−1.39	0.41	20–21	3.0	3	15	15	0	w.	Mrs. Dora A. Wilson
Vandalia	Audrain	766	1	....	......	..	..	..	..	6	0.70	......	0.60	12	*T.*	2	18	3	9	s.	August J. Little
Warrenton	Warren	816	63	44.9	+ 1.7	80	7	17	22	55	0.97	−1.65	0.65	12	*T.*	5	16	11	3	w.	W. T. Zimmerman
Keokuk, Iowa	Lee, Ia	574	73	42.1	+ 1.0	77	7	15	22	73	1.77	−0.17	0.74	12	0.5	6	11	8	11	nw.	U S. Weather Bureau
Division means	**and extremes**	.....	..	**43.2**	**+ 0.9**	**82**	**6†**	**6**	**22**	..	**0.95**	**−1.25**	**1.22**	**8**	**0.7**	**4**	**15**	**8**	**7**	**nw.**	
Southwestern Division																					
Anderson ...1½ mi SW	McDonald	1,000	41	48.2	− 1.1	86	6	16	24	46	0.21	−3.14	0.21	12	0	1	22	2	6	sw.	Samuel G. Chamberlain
Appleton City	St. Clair	813	50	47.3	+ 1.3	82	6	18	22	53	0.47	−1.83	0.42	12	T.	2	16	3	11	sw.	Rolla Brown
Bolivar	Polk	1,071	42	48.3	+ 1.5	81	6	21	23	50	0.70	−1.88	0.40	12	0	3	17	7	6	sw.	Southwest Baptist College
Boonville	Cooper	650	7	44.6	......	82	6	19	22†	68	0.36	−1.85	0.36	12	*T.*	1	7	7	16	nw.	Boonville Water Dept.
Carthage	Jasper	962	11	49.6	......	85	6	20	22	21	0.21	......	0.16	8	0	2	14	14	2	sw.	Carthage W. and E. Plant
Clinton	Henry	786	52	46.8	− 0.2	83	6	22	22	58	0.48	−1.68	0.32	12	T.	3	15	9	6	s.	U. S. Weather Bureau
Eldon	Miller	934	50	43.4^{b}	− 1.4	76^{b}	12	20^{b}	22	46	§0.94	−1.51	0.72	12	0	3	9^{b}	9^{b}	4^{b}	nw.	Ira M. Wilson
Fort Leonard Wood	Pulaski	1,107	4	48.1^{b}	......	83^{c}	2	22^{b}	23	4	0.82	......	0.40	13	0	4	11^{b}	10^{b}	7^{b}	nw.	U. S. Army Medical Corps
Harrisonville	Cass	904	67	44.3	+ 1.8	81	6	18	22†	70	0.44	−1.70	0.29	12	*T.*	2	15	3	12	nw.	Jeffrey B. Patterson
Jefferson City	Cole	557	55	46.0	+ 1.9	81	6	19	22†	63	0.90	−1.49	0.82	12	*T.*	3	6^{f}	15^{f}	3^{f}	......	K. W. O. S. Radio Farm
Joplin	Jasper	1,008	23	51.3	+ 3.0	82	6	24	22†	40	0.20	−2.57	0.10	8	0	3	18	3	9	s.	Empire Dist. Electric Co.
Lakeside	Miller	595	14	47.6	+ 3.1	82	6	23	23†	14	0.70	−3.01	0.40	12	*T.*	4	14	9	7	sw.	W. S. Frame
Lamar	Barton	980	57	48.0	+ 1.7	83	6	20	22†	64	0.75	−1.78	0.40	12	0	2	19	7	4	sw.	Mrs. Marie Mann
Lebanon	Laclede	1,265	57	47.4	+ 1.8	79	1	21	23	58	0.58	−2.06	0.25	12	0	4	11	14	5	nw.	Mrs. Rosa E. Montelius
Lexington	Lafayette	688	60	....	......	..	..	..	..	61	....	......	....	..	....	..	..	..	..	......	Tilton Davis
Lockwood	Dade	1,078	39	49.8	+ 2.8	82	6	21	22	49	0.40	−2.44	0.20	12	0	3	18	8	4	sw.	Hubert A. Nieman
Marshall	Saline	779	58	49.2	+ 4.0	86	6	18	22	55	0.85	−1.47	0.70	12	T.	2	17	9	4	e.	Thomas A. Reid
Mountain Grove	Wright	1,463	44	47.2	+ 1.3	79	1	21	23	48	1.60	−1.35	0.64	1†	0	8	13	9	8	se.	Mo. Fruit Exp. Station
Mount Vernon	Lawrence	1,174	33	48.6	+ 2.8	82	1	21	22†	45	0.34	−2.60	0.25	12	0	3	15^{a}	12^{a}	2^{a}	sw.	James C. Williamson
Neosho	Newton	1,011	58	50.0	+ 2.7	83	6	18	22	62	0.36	−2.94	0.30	12	0	2	17	8	5	sw	U. S Fisheries Station
Nevada	Vernon	862	52	48.8	+ 4.0	82	6	22	22†	53	0.35	−1.80	0.35	12	0	1	17	7	6	sw.	Henry Kraft
Ozark Beach	Taney	700	5	49.1	......	82	1†	19	24	20	1.22	−1.55	0.74	12	0	4	5	17	8	nw.	Empire District Elec. Co.
Sedalia	Pettis	910	32	46.6	+ 3.3	81	6	18	22	34	0.67	−0.95	0.51	12	*T.*	3	17	4	9	nw.	Dr. J. E. Cannaday
Seligman	Barry	1,542	44	49.9^{a}	+ 2.6	80^{a}	6	20^{a}	23	42	0.43	−2.66	0.29	20–21	0	2	11^{c}	11^{c}	5^{c}	s.	Floyd E. Fawver
Seymour 3½ miles NE	Webster	1,642	39	44.6	− 1.3	78	1	20	23†	39	0.81	−2.08	0.67	12	0	3	21	0	9	s.	A. L. Hailey
Springfield...4 mi. NW	Greene	1,301	57	47.2	+ 2.2	80	1	21	23	57	0.45	−2.31	0.19	12	T.	3	13	5	12	s.	U. S Weather Bureau
Sweet Springs	Saline	700	4	46.4^{c}	......	82^{c}	6	18^{c}	22	4	0.80	......	0.61	12	0.2	3	3^{a}	22^{a}	4^{a}	s.	H F. Nelson
Warrensburg	Johnson	878	58	47.7^{a}	+ 2.7	80^{a}	6	18^{a}	22	65	0.46	−1.76	0.42	12	*T.*	2	13	10	7	s.	Central Teachers College
Warsaw	Benton	687	44	48.4	+ 1.2	84	6	21	24	50	0.63	−2.01	0.40	12	*T.*	4	17	5	8	nw.	Dora B. Johnson
Wasola	Ozark	1,294	4	48.8	......	81	1	22	23	5	0.67	......	0.34	12	0	4	20	5	5	s.	A. W. Pinckney
Division means	**and extremes**	.....	..	**47.7**	**+ 1.8**	**86**	**6**	**16**	**24**	..	**0.70**	**−1.87**	**0.82**	**12†**	**T.**	**3**	**14**	**9**	**7**	**sw.**	
Southeastern Division																					
Advance.... ¼ mile W	Stoddard	354	8	47.4	......	74	8†	18	24	8	3.29	......	1.01	8	0	13	11	3	16	s.	U. S. Weather Bureau
Arcadia	Iron	926	64	46.4	+ 2.5	80	1	20	26†	67	2.75	−0.37	1.20	8–9	0	4	14	2	14	e.	Arcadia College
Birch Tree... ½ mile E	Shannon	1,000	50	46.1^{a}	− 0.5	78^{a}	1	13^{a}	24	51	2.17	−0.99	0.97	8	T.	6	14^{b}	10	4^{b}	nw.	R. C. Moger
Black.......9 miles NW	Iron	1,000	52	46.6	+ 1.9	80	1	12	24	52	1.81	−0.91	0.69	27	0	6	13^{a}	9^{a}	7^{a}	sw.	Claude Volner
Campbell	Dunklin	314	19	52.5^{f}	+ 4.9	75^{f}	1†	22^{f}	24	19	5.15	+1.45	1.95	9	0	10	12^{f}	4^{f}	8^{f}	s.	Mrs. Ruth Christian
Caruthersville	Pemiscot	265	49	52.2	+ 1.8	77	8†	25	24	53	4.92	+1.07	1.10	12–13	0	12	8	12	10	ne.	Victor T. Malloure
Crystal City	Jefferson	420	11	49.0	+ 5.1	82	1	18	24	11	1.86	−1.56	0.49	12	*T.*	8	9	3	18	nw.	Richard K. Ragland
Doniphan	Ripley	344	41	50.2	+ 2.9	79	17	14	24	41	3.60	+0.18	0.95	26	0	9	16	4	10	w.	Boyce Lackey
Farmington	St. Francois	896	34	47.8	+ 3.0	77	1	21	24	48	3.11	+0.29	0.83	8	*T.*	7	8	4	18	s.	F. M. Karsch
Greenville	Wayne	460	36	49.1	+ 3.7	78	17	15	24	38	2.70	−0.66	0 70	26–27	0	6	10	9	11	se.	Beuford Shoemake
Jackson	Cape Girardeau	428	54	47.9	+ 1.3	74	8†	18	24	55	4.74	+1.36	2.80	9	0	5	16	6	8	s.	Danny Siebert
Koshkonong	Oregon	958	44	49.4	+ 0.4	78	1	21	24	45	2.63	−0.63	0.78	12	0	10	13	5	12	s.	Mrs Genevieve T. Smith
Licking...... 4 miles N	Texas	1,170	8	47.3	......	81	1	18	24	8	1.56	−1.08	0.70	12–13	0	3	13	9	8	s.	U. S. Forestry Service
Malden....4 miles NNW	Dunklin	292	2	49.0	......	76	1	23	24	2	4.00	......	1.66	8–9	T.	8	10	6	14	s.	U. S. Weather Bureau

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Climatological Data for November 1945—Continued from preceding page

Stations	Counties	Elevation, feet	Temperature, in degrees, Fahr.							Precipitation, in inches						Number of days				Prevailing direction of wind	Observers
			Length of record, years	Mean	Departure from the normal	Highest	Date	Lowest	Date	Length of record, years	Total	Departure from the normal	Greatest in 24 hours [4]	Date	Total snowfall, unmelted	With precip., .01 inch or more	Clear	Partly cloudy	Cloudy		
Southeastern Division—	*Concluded*																				
Marble Hill	Bollinger	532	50	49.5	+ 4.3	78	1†	16	24	52	2.71	−0.84	0.74	26	0	6	12	13	5	n.	R. A. DeWitt
Poplar Bluff	Butler	339	40	49.4	+ 1.7	76	12	19	24	41	2.38	−1.10	0.72	26	0	6	13	14	3	s.	Joe Roehm
Rolla	Phelps	1,202	45	46.9	+ 1.9	80	1	19	22	61	0.70	−1.98	0.35	20-21	T.	3	12	17	1	sw.	Rolla School of Mines
St. Louis:																					
City Office		465	108	46.2	+ 0.8	80	1	20	22	108	1.68	−1.15	0.46	26-27	T.	7	7	10	13	s.	**Section Center**
St. Louis Airport	St. Louis	556	8	45.4	+ 1.5	81	1	20	22	14	1.63	−0.77	0.49	12	T.	8	6	12	12	s.	U. S. Weather Bureau
St. Louis University	St. Louis City	578	33	46.2	+ 0.5	81	1	20	22	33	1.78	−0.76	0.50	20-21	0.2	10	11	6	13	se.	St. Louis University
Salem	Dent	1,206	41	46.7	+ 0.6	80	1	21	24	44	1.58	−1.06	0.62	12	0	6	10	13	7	s.	E. E. Martin
Sikeston	Scott	318	38	48.6	+ 1.4	77	8	22	24	48	4.81	+1.25	1.35	9-10	0	10	12	12	6	s.	Mrs. Lucy W. Humphreys
Union 1½ mi. SE	Franklin	520	7	46.6	......	81	1†	17	24	28	0.81	−1.94	0.31	12	0	5	17	3	10	w.	Cornelius Sieges
Vichy 2 mi. NW	Maries	1,125	9	45.4	......	78	1	19	22	10	0.88	......	0.38	12	*T.*	5	17	0	13	s.	Civil Aeronautics Adm.
Wappapello Dam	Butler	475	6	49.8	......	76	6†	22^{a}	24	6	2.44	......	0.69	26	0	10	11	8	11	nw.	U. S. Engineer Office
Weingarten	St. Genevieve	833	4	47.8	......	80	1	21	15†	5	2.70	......	1.10	8-9	0	4	9	13	8	n.	William J. Miller
West Plains	Howell	1,005	8	46.0	......	80	1	18	24	8	2.15	......	0.53	8†	0	10	15	4	11	s.	U. S. Weather Bureau
Willow Springs 500 ft E	Howell	1,238	4	47.5	......	80	1	19	24	38	2.55	−0.79	0.69	12†	0	6	15	7	8	s.	Allen Frazee
Cairo, Ill.	Alexander, Ill.	314	73	49.6	+ 2.3	75	8	26	24	74	5.12	+1.44	1.45	8-9	T.	12	9	7	14	s.	U. S. Weather Bureau
Division means	**and extremes**	.....	..	**48.0**	**+ 2.1**	**82**	**1**	**12**	**24**	..	**2.52**	**−0.66**	**2.80**	**9**	**T,**	**7**	**12**	**8**	**10**	**s.**	
State means	**and extremes**	.....	..	**46.3**	**+ 1.8**	**86**	**6**	**6**	**22**	..	**1.39**	**−1.26**	**2.80**	**9**	**0.2**	**5**	**14**	**8**	**8**	**s.**	

The departures from normal temperature are computed from the averages of the entire period for stations having 10 or more years of record. Departures of precipitation for stations with 15 years or more of record are computed from a normal or "standard mean", adjusted to a uniform 35-year period; for stations of 10 to 14 years the means for the period of record are used. The normal may be found by adding the departures when minus (−) or subtracting when plus (+). Figures and letters following stations indicate distance in miles and direction of station from the city Post Office, unless otherwise indicated. T. Trace or 0.005 inch or less. ^{a}, ^{b}, ^{c}, etc., number of days missing; for example, ^{b}, indicates two days missing. Italics data interpolated. § Partly interpolated. † And other dates. ‡ Received too late to be included in means and summaries. [4] Best available used for stations not equipped with recorders. Post office address of: Altona is Adrian; Crane Mountain is Arcadia; East End is Goodland; Eastwood Lookout is Van Buren; Ellsinore Lookout is Mill Spring; Hailey is Cassville; High Lookout is Birch Tree; Macedonia Lookout is Doniphan; Perry is Center; Pilot Knob is Ironton; Wilderness Lookout is Lampe.

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age sown to wheat this fall was reported by the Bureau of Agricultural Economics as slightly more than last year, but considerably less than the average of the past ten years, in this State. Livestock continued in good condition, generally, but considerable dry feeding was necessary as condition of pastures and ranges declined due to dry weather and the approach of winter.—M. R. W.

TEMPERATURE

The monthly mean for the State, 96 stations reporting, was 46.3°, or 1.8° warmer than the 58-year November average. The highest monthly mean was 52.5° at Campbell, and the lowest was 39.2° at Unionville. The highest reported was 86° at Marshall on the 6th, and the lowest was 6° at Maryville on the 22d.

PRECIPITATION

The average for the State, 212 stations reporting, was 1.39 inches, or 1.26 inches less than the 58-year November average. The greatest monthly amount was 5.15 inches at Campbell, and the least was 0.20 inch at Joplin. The greatest amount reported in 24 hours was 2.80 inches, at Jackson, on the 9th. The average number of days with 0.01 inch, or more, was 5.

Snowfall averaged 0.2 inch, or 0.8 inch less than the 56-year November average. The greatest monthly snowfall was 4.0 inches at Lucerne.

MISCELLANEOUS PHENOMENA

Earthquake.—On 13th; felt at Perryville and Cairo, Ill; strong shocks reported at Cairo.

Fogs.—Heavy, 8th, 9th, 11th, 12th, 13th, 17th, 18th, 19th, 20th, 25th, 26th, 27th, 28th, 29th, 30th.

Frosts.—Killing, (where killing had not occurred previously), 3d, 4th, 9th, 14th, 15th, 22d.

Hail.—Light, 6th at Saverton; 17th at Hannibal, Kansas City Airport, Mexico, Shelbina; 20th at Belleview, East End, Farmington, St. Louis City, St. Louis Airport, Webster Groves; 21st at Crane Mountain, Seymour; 26th at Advance, Elijah, and near Steele; 27th at Jackson.

Sleet.—2d, 10th, 21st.

Windstorms.—8th, 26th. (See special windstorm notes).

WINDSTORMS

On the 8th high wind caused only minor damage at Browning.

On the 26th, at 11 p. m., a destructive wind and electrical storm struck the vicinity of Steele, Pemiscot County, resulting in the death of two persons, injury to eight others, and property damage estimated at 10 to 15 thousand dollars. The storm came from the north or northwest over a path, of greatest destruction, one mile wide and about three miles long. Heavy rain and some hail accompanied the storm. High winds were reported over the county, but without damage outside the storm path mentioned above.

OBITUARIES

Mr. John G. Putz, cooperative observer at the Jackson station died in October, but the exact date of his death is not known at this time. Mr. Putz served as cooperative observer from June 1, 1920 to April 1, 1939 and from October 8, 1941 until about October 7, 1945.

Mr. P. J. Sargeant, engineer for the Empire District Electric Co., of Joplin, died suddenly on October 21. Although the Empire Co., was listed as the official observer in publications of the Missouri Climatological Data, Mr. Sargeant was the supervisory official responsible for weather reports received from the Joplin station. Mr. Sargeant's cooperative services began in May 1923 and continued until his death.

Mr. Frank Hall, former cooperative observer at Steffenville, died on November 5, 1945, at the age of 95 years. Mr. Hall's service began in May 1903 and ended April 30, 1942, when infirmities and failing eyesight forced him to give up his cooperative duties. At the time of his retirement he was one of the oldest cooperative observers, in point of service, having served continuously for 39 years.

Mr. C. D. Wilson, cooperative observer at the Unionville station from January 1942 until June 30, 1945, died on November 16. Because of ill health Mr. Wilson was forced to relinquish his services in favor of his wife, Mrs. Dora B. Wilson, the present observer at Unionville.

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Daily Precipitation for November 1945

Stations	Drainage basins	Day of month																															
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	..	Total
Northern Division																																	
Albany	Grand								1.22			.01	.18									.20					.03						1.64
Amity	do						T.		.42			T.	.31									.07					.01						0.81
Auxvasse	Missouri		T.						.16				.78					.02				T.					T.	.04					1.00
Bethany	Grand						T.		.40			T.	.47									.01					T.						0.88
Bowling Green[2]	Mississippi							.02		.20				.61								.01											0.84
Brookfield[2]	Grand									.26				.45				.74															1.45
Browning ... 3 mi. NE	do						.01		.20			T.	.34					.07				.34	.01				.01						0.98
Brunswick[2]	do									.42				.48				.12				.02	.09										1.13
Canton, Lock No. 20[2]	Mississippi							T.		.26			T.	.71				.48		.02		.07	T.					.07	T.				1.61
Centralia[2]	do							.02		.06				.33				.30				*T.*						.12					0.83
Chillicothe[2] (A)	Grand						T.			.18			T.	.12				.30				.11											0.71
Chillicothe[2] (B)	do							T.		.12			T.	.22				.52				.06	T.										0.92
Clifton Hill	Chariton								.16			1.00					T.					.03	*T.*										1.19
Columbia[1, 5]	Missouri		T.				T.		.06				.20				T.	T.				.04	T.	T.			T.						0.30
Columbia ... 9 mi. WNW	do			T.					.04				.42					.05				T.					T.	T.					0.51
Conception	do						T.		.19			T.	.08									.07											0.34
Edgerton	do								.35				.15									.07											0.57
Edina[2]	Mississippi									.25				.60				.16				.13	*T.*					T.					1.14
Elsberry S. C. S.[2]	do							T		.29				.75				T.				.12		*T.*				.05	T.				1.21
Fayette	Missouri						T.		.03				.33					.22				T.	T.	T.			T.						0.58
Fulton[2]	do			T.				T.	T.	.20			.01	.69				T.				.03	T.					.03					0.96
Gallatin[2]	Grand							T.		.40			T.	.22				T.				.15											0.77
Grant City	do						T.	.23				T.	.03									*.05*											§0.31
Hannibal[1] (A)	Mississippi						T.		.08				.73				.01	.38				.16					.08	.01					1.45
Hannibal[2] (B)	do								T.	.05			T.	.80				.43	T.			.18	T.	T.				.18					1.64
Hermann[2]	Missouri			.02						.32				.75								.10						.05					1.24
Kahoka[2]	Mississippi							.20		.25			.06					.18				*	.04	T.				.15					0.88
Kansas City Airport[1, 5]	Missouri			T.			T.		.19			T.	.24				.03	.09				.05	T.				T.	T.	T				0.60
Kansas City University	do						T.		.40			T.	.18					.01				.01						.01					0.61
Kidder[2]	Grand									.34				.20				.06				.04											0.64
King City	Missouri											.17	.01									.12					T.						0.30
Kirksville	Mississippi						*T.*		.35				.47					.30				.33	*T.*										1.45
Knoxville[3]	Missouri						.02		.24			T.	.27									.02	T.				T.						0.55
La Belle[2]	Mississippi									.45				.48				.40				*T.*					.35						1.68
Lawson	Missouri			T.			T		.19			T.	.27					T.				.06	T.				T.						0.52
Linneus[2]	Grand																																....
Louisiana (A)	Mississippi						.03		.18				.55	*T.*				.06				.07						.07					0.96
Louisiana[2] (B)	do							.01	.01	.18				.46				.06				.09							.05				0.86
Lucerne[2]	Grand									.23				.31								.33											0.87
Macon[2]	Chariton							.01		.37				.45				.53	.01			.03	.04					T.					1.44
Madison[2]	Mississippi													.48														10					0.58
Martinsburg[2]	Missouri			T.				T.	T.	.21			T	.93								.05	T.	T.	T.			T.					1.19
Maryville	do	T.					T.		.62				.11									.20					T.						0.93
Memphis[2]	Mississippi							T.		.20				.52								T.	*.12*					T.	T.				§0.84
Mexico[2]	do												.05	.85				.03						*T.*		*T.*		.07					1.00
Milan[2]	Grand									.18			T.	.30								.30											0.78
Moberly[2] ... 3½ mi. NE	Mississippi																																....
Monroe City	do						T.		.16				.62					.21				.06						.07					1.12
New Florence[3, 5] 1 mi SE	Missouri		T.				T.	T.	.20				.90				T.					.03		T.			T.						1.13
Oregon	do						.01		.11			*T.*	*T.*									*.15*											§0.27
Palmyra	Mississippi								.20				.72					.61				*T.*						.10					1.63
Paris[2]	do									.18				.53				.03				.02	*T.*	*T.*				.10					0.86
Perry ... 1 mile E	do												.30					.10				.03					.10						0.53
Philadelphia	do						T.	T.	.10					.42				.30				.05						.05					0.92
St. Charles[2] (A)	Missouri			.01				.05		.25				.53								.15		*T.*				.25					1 24
St. Charles[2] (B)	do		T.					.04	T.	.42			T.	.64						T.		.15		T.				.20					1.45
St. Joseph[1, 5]	do						.01		.36			T.	T.									.05											0.42
Saverton, Lock No. 22[2]	Mississippi							.02	T.	.09			T.	.30				.26		.03		.02	.02	T.	T.			.02	.15				0.91
Shelbina	do								.15				.48					.27				.06		*T.*				.08					1.04
Shelbyville[2]	do									.18				.68				.48					.03					.16					1.53
Steffenville	do						T.		.20				.57					.24				.04	T.					.05					1.10
Tarkio[3]	Missouri						T		.57			T.	T.								.01	.11					T						0.69
Trenton[2]	Grand							.01		.23			T.	.19				T.				.21	T.				.01						0.65
Troy[2]	Mississippi			T.						.40				.80								.06		T.	*T.*			.01					1.27
Unionville[2]	Chariton									.22			T.	.18								.41	T.										0.81
Vandalia	Mississippi								.10				.60									*T.*											0.70
Warrenton	do			.03			T.		.16				.51	.14								.13	*T.*	*T.*									0 97
Keokuk, Iowa[1]	do						.26		.17				.74				T.	.35	T.	T.		.10	T.	T.			.15	T.					1.77
Southwestern Division																																	
Altona[2]	Osage			T.										.36														T.					0.36
Anderson[2] ... 1½ mi. SW	Neosho													.21																			0.21
Appleton City	Osage								.05				.42									T.											0.47
Ava Ranger Station[2]	White		.29							.10				.53	.06					T.													0.98
Bolivar	Osage		T.						.22				.40									.08					T.						0.70
Boonville[2] (A)	Missouri													.36								*T.*	*T.*										0.36
Boonville[2] (B)	do									T.				.27				T.					T.										0.27
Bradleyville[2]	White		.10										.05	.58	.08			.07		.06													0.94
Buffalo[2]	Osage									.06				.26																			0.32
Butler[2]	do		T.							.03				.30									*T.*				T.						0.33
Caplinger Mills[2]	do									.16			T.	.30			T.						T.					T.					0.46
Carthage	Neosho								.16				.05																				0.21
Cassville[2]	White													.14						.10		.12											0.36
Clinton[3]	Osage		.04						.12				.32									T.											0.48
Concordia	Missouri		T.				T.		.05				.52									T.											0.57
Crocker	Osage												.66									.08											0.74
Eldon	Missouri		*T.*						*.20*				.72				T					.02					T.	T.					§0.94
Eldorado Springs	Osage		T.						.28				.43								T.						T.						0.71
Elijah[2]	White		.20							.56	.23			.55				.25				.06						.82					2.67
Fort Leonard Wood[2]	Gasconade		.08							.15				.40								.19											0.82
Galena[2]	White													.14								.10											0.24
Granby[2]	do													.40																			0.40
Hailey	do												.10		.14					.06	.08												0.38
Harrisonville[2]	Osage									.15				.29								*T.*	T.										0.44
Jefferson City (A)	Missouri		.04					.04	T.				.82			T.						*T.*						T.					0.90
Jefferson City[2] (B)	do			.04	.02					.24			T.	.76	T.							.03	T.					.02					1.11
Joplin[1]	Neosho								.10				.06														.04						0.20
Lakeside[2, 5]	Osage		T.	T.					T.	.25			T.	.40								.03	T.					.02	T.				0.70
Lamar[2]	Neosho									.35				.40																			0.75

Continued on next page

Daily Precipitation for November 1945—Continued from preceding page

Stations	Drainage basins	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	..	Total
Southwestern Division—	*Concluded*																																
Lebanon	Osage	....	.08	....	....	....	....	....	.02	....	....	....	.25	....	....	....	....	....	....	....	....	.23	....	....	....	....	....	....	....	....	....	....	0.58
Lexington[2]	Missouri	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Lockwood	Osage	....	....	....	....	....	....	....	.10	....	....	....	.20	....	....	....	....	....	....	....	....	.10	....	....	....	....	T.	....	....	....	....	....	0.40
Mansfield[2]	White	....	.28	....	....	....	....	....	....	.22	....	....	....	.56	.15	....	....	....	....	....	....	.49	....	....	....	....	....	....	....	....	....	....	1.70
Marshall	Missouri	....	....	....	....	....	T.	....	.15	....	....	....	.70	T.	....	....	T.	....	....	....	....	*T.*	....	....	....	....	*T.*	....	....	....	....	....	0.85
Marshfield[2]	White	....	.10	....	....	....	....	....	....	.11	....	....	....	.28	T.	....	....	....	....	....	....	.26	....	....	....	....	....	....	....	....	....	....	0.75
Mountain Grove[2]	Gasconade	....	.64	....	....	....	....	....	....	.04	.03	....	.02	.62	.10	....	....	....	....	....	....	.13	....	....	....	....	....	.02	....	....	....	....	1.60
Mount Vernon[2]	Neosho	....	.02	....	....	....	....	....	....	....	....	....	....	.25	....	....	....	....	....	....	....	.07	....	....	....	....	....	....	....	....	....	....	0.34
Neosho	do	....	....	T.	....	....	....	....	.06	....	....	....	.30	....	....	....	....	....	....	....	....	....	....	....	....	....	T.	....	....	....	....	....	0.36
Nevada	Osage	....	....	T.	....	....	....	....	T.	....	....	....	.35	....	....	....	....	....	....	....	....	....	....	....	....	....	T	....	....	....	....	....	0.35
Osceola[2]	do	....	....	....	....	....	....	....	....	.11	....	....	....	.26	....	....	....	....	....	....	....	....	T.	....	....	....	....	....	....	....	....	....	0.37
Ozark[2]	White	....	....	....	....	....	....	....	....	....	....	....	T.	.28	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	0.28
Ozark Beach[2]	do	....	.19	....	....	....	....	....	....	....	.08	....	....	.74	....	....	....	....	....	....	....	.21	....	....	....	....	....	....	....	....	....	....	1.22
Pierce City[2]	Neosho	....	.01	....	....	....	....	....	....	....	....	....	....	.25	....	....	....	....	....	....	....	T.	....	....	....	....	T.	....	....	....	....	....	0.26
Pleasant Hill[2]	Osage	....	....	.10	....	....	....	....	....	.22	....	....	T.	.10	T.	....	....	T.	....	....	....	T	T.	....	....	....	....	....	T.	....	....	....	0.42
Roby	Gasconade	....	.04	....	....	....	....	....	.19	....	....	....	.59	T.	....	....	....	....	....	....	....	.19	....	....	....	....	....	....	....	....	....	....	1.01
St. Thomas[2]. 2¼ mi SW	Osage	T.	....	....	....	....	....	....	....	*.27*	....	....	....	.45	....	....	....	....	....	....	....	*.03*	....	....	....	....	....	*.01*	....	....	....	....	§0.76
Saunders Lookout[2]	White	....	.35	....	....	....	....	....	....	....	.09	....	T.	.35	.03	....	....	....	....	.03	....	.16	T.	....	....	....	....	....	....	....	....	....	1.01
Sedalia	Missouri	....	....	.03	....	....	....	....	.13	....	....	....	.51	....	....	....	....	....	....	....	....	T.	....	....	....	....	....	....	....	....	....	....	0.67
Seligman[2]	Neosho	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.14	....	.29	....	....	....	....	....	....	....	....	....	....	0.43
Seymour[2]....3½ mi. NE	White	....	....	....	....	....	....	....	....	....	....	....	.06	.61	....	....	....	....	....	T.	....	.14	....	....	....	....	....	....	....	....	....	....	0.81
Shell Knob[2]...3 mi. SE	do	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Siloam Sprgs Lookout[2]	do	....	....	....	....	....	....	....	....	.28	....	....	....	.71	.14	....	....	.19	....	....	....	....	....	....	....	....	....	.42	....	....	....	....	1.74
Springfield[1],[5]. 4 mi. NW	do	.18	....	....	....	....	....	....	T.	....	....	....	.19	....	....	....	T.	....	....	....	T.	.08	....	....	....	....	T.	....	....	....	....	....	0.45
Stover[2]	Missouri	....	....	*.02*	....	....	....	....	.07	....	....	....	....	.32	....	....	....	....	....	....	....	*.03*	....	....	....	....	....	*.01*	....	....	....	....	§0.45
Swan Tower Lookout[2]	White	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Sweet Springs	Missouri	....	....	....	....	....	....	....	.16	....	....	....	.61	....	....	....	....	....	....	....	....	.03	T.	....	....	....	T.	....	....	....	....	....	0.80
Tecumseh[2]. ..¼ mi. W	White	....	....	....	....	....	....	....	....	....	.16	....	....	.45	....	....	.23	....	....	....	....	.33	....	....	....	....	....	.59	....	....	....	....	1.76
Topaz[2]	do	....	.32	....	....	....	....	....	....	....	.10	....	....	.57	.08	....	....	....	....	....	....	....	....	....	....	....	....	.25	....	....	....	....	1.32
Vanzant[2]....3¾ mi. SE	do	....	.16	....	....	....	....	....	....	.25	.14	....	....	.43	.09	....	....	....	....	....	....	....	....	....	....	....	....	.14	....	....	....	....	1.21
Warrensburg	Missouri	....	T.	....	....	....	....	....	.04	....	....	....	.42	....	....	....	....	....	....	....	....	T.	....	....	....	....	....	T.	....	....	....	....	0.46
Warsaw[2].........(A)	Osage	....	....	.05	....	....	....	....	....	.10	....	....	T.	.40	....	....	....	....	....	....	....	.08	....	....	....	....	....	T.	....	....	....	....	0.63
Warsaw[2].........(B)	do	....	....	*.05*	....	....	....	....	....	T.	....	....	....	.23	....	....	T.	....	....	....	....	*.08*	....	....	....	....	....	....	....	....	....	....	§0.36
Wasola[2]	White	....	....	....	....	....	....	....	....	....	.14	....	....	.34	.11	....	....	.08	....	....	....	....	....	....	....	....	....	T.	....	....	....	....	0.67
Waverly[2]	Missouri	....	....	....	....	....	....	....	....	.28	....	....	....	.22	....	....	....	T	....	....	....	T.	T.	....	....	....	....	....	....	....	....	....	0.50
Wilderness Lookout[2]	White	....	.08	....	....	....	....	....	....	....	.15	....	....	.25	.05	....	....	....	....	.07	....	.06	....	....	....	....	....	....	....	....	....	....	0.66
Southeastern Division																																	
Advance[3].....¼ mile W	St. Francis	....	.20	....	....	....	.02	....	1.01	.04	.76	.01	.38	T.	....	....	....	.07	.01	T.	.02	.12	....	....	....	....	.63	.02	....	....	....	....	3.29
Alton(1)....10 miles SE	Black	....	....	....	....	....	....	....	....	.20	.51	....	....	.35	.05	....	....	.16	....	.04	....	.27	....	....	....	....	....	.62	....	....	....	....	2.20
Alton(2)[2] ...7 miles NE	do	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Annapolis[3].....7 mi. W	do	....	.16	....	....	....	.04	T.	....	.59	.16	....	.03	.42	....	....	....	....	....	....	....	.15	....	....	T.	....	....	.54	....	....	....	....	2.09
Arcadia[2]	St. Francis	....	.37	....	....	....	....	....	....	1.20	....	....	....	.58	....	....	....	....	....	....	....	....	....	....	....	....	....	.60	....	....	....	....	2.75
Belleview[2]	Meramec	....	.25	....	....	....	....	.04	....	.57	....	....	.04	.71	....	....	....	T	....	....	....	.15	....	....	T.	....	....	.46	....	....	....	....	2.22
Bernie[2]	St. Francis	....	.16	....	....	....	....	.06	....	1.15	1.14	.08	.34	.51	....	....	....	....	.11	....	....	.51	.18	....	....	....	....	.86	....	....	....	....	5.10
Birch Tree[2] ...½ mile E	Black	....	.18	....	....	....	T.	....	T.	.97	.21	T.	T	.24	....	....	....	.18	....	....	....	T	....	T.	....	....	....	.39	....	....	....	....	2.17
Black...... 9 miles NW	do	....	.30	....	....	....	....	....	*	.25	....	....	.05	....	.52	....	....	....	....	....	....	....	....	....	....	....	....	.69	....	....	....	....	1.81
Bloomfield[2]	St. Francis	....	.19	....	....	....	....	....	....	.76	1.04	.06	....	.53	....	....	....	.06	....	.02	....	.25	T.	....	....	....	....	.52	....	....	....	....	3.43
Bunker[2]... 4 miles NW	Black	....	.43	....	....	....	....	....	....	.29	....	....	....	.67	....	....	....	....	....	....	....	.30	....	....	....	....	....	.41	....	....	....	....	2.10
Campbell	St. Francis	....	.05	....	....	....	.03	....	....	1.95	1.20	.02	02	.66	....	....	....	....	T.	.02	....	.23	....	....	....	....	....	.97	....	....	....	....	5.15
Cape Girardeau[2]	Mississippi	....	.74	....	....	....	....	.02	....	.74	.73	.02	.03	.31	....	....	....	T.	....	.01	....	.08	....	....	....	....	....	.55	....	....	....	....	3.23
Caruthersville ..(A)	do	....	.10	.07	....	....	.04	....	....	1.04	1.08	.05	....	1.10	.13	....	....	.02	....	.33	....	.16	....	....	....	....	....	.80	....	....	....	....	4.92
Caruthersville[2] ..(B)	do	....	....	.15	....	....	....	....	....	1.10	.77	.41	T.	1.16	.13	....	....	T.	....	.32	....	.15	....	....	....	....	....	.88	....	....	....	....	5.07
Centerville(1)[2]	Black	....	.80	....	....	....	.06	T.	....	.74	.10	.03	.10	.40	T.	....	....	....	....	....	....	.14	....	....	....	....	....	.45	....	....	....	....	2.82
Centerville(2)[2]	do	....	.79	....	....	....	.05	.01	....	.80	.09	T.	.01	.50	....	....	....	....	....	....	....	.12	....	T.	....	....	....	.47	....	....	....	....	2.84
Cook Station[2]	Meramec	....	....	....	....	....	....	....	....	.34	....	....	....	.57	....	....	....	....	....	....	....	....	....	....	....	....	....	.39	....	....	....	....	1.30
Crane Mountain[2]	St. Francis	....	.60	....	....	....	.06	....	....	.77	.09	....	.03	.37	....	....	....	....	....	....	....	.11	....	....	....	....	....	.60	....	....	....	....	2.63
Crystal City	Mississippi	....	.32	....	....	....	.02	....	*	.41	....	....	....	.49	....	....	T.	.01	....	....	....	.20	....	*T.*	....	....	....	.41	....	....	....	....	1.86
Cuba	Meramec	....	....	....	....	....	....	....	.35	....	....	....	.05	.45	....	....	....	....	....	....	....	.38	....	....	....	....	....	.02	....	....	....	....	1.25
Deering[2]	St. Francis	....	....	.07	....	....	....	T.	T.	.77	1.15	.23	.17	.77	.08	....	....	T.	....	.41	....	.04	....	....	....	....	....	.88	....	....	....	....	4.57
De Soto[2]	Mississippi	....	.08	....	....	....	....	.04	....	.41	....	....	....	.51	....	....	....	T.	....	....	....	.22	....	....	....	....	....	.44	....	....	....	....	1.73
Dexter[2]	St. Francis	....	.09	....	....	....	....	T	....	1.18	.89	.09	.05	.86	....	....	....	.05	....	.06	....	.14	.06	....	....	....	....	.74	....	....	....	....	4.21
Doniphan(1)	Black	....	....	....	....	....	.06	....	.77	.61	.30	....	.09	....	....	....	....	.71	....	.05	....	.06	....	....	....	....	....	.95	....	....	....	....	3.60
Doniphan(2)[2]	do	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
East End[2]	Meramec	....	....	....	....	....	....	....	....	.33	....	....	.08	.40	....	....	....	.03	....	....	....	.70	....	....	....	....	....	.48	....	....	....	....	2.02
Eastwood Lookout[2]	Black	....	.26	....	....	....	.05	....	....	.33	.37	.03	.05	.55	....	....	....	.12	....	....	....	.27	....	....	....	....	....	.51	....	....	....	....	2.54
Ellington[2]	do	....	.30	....	....	....	T.	.03	....	1.10	.23	....	T.	.52	.05	....	....	....	....	....	....	.19	T.	....	....	....	....	.35	....	....	....	....	2.77
Ellsinore Lookout[2]	do	....	.31	....	....	....	....	....	....	.20	.31	.08	.11	.63	....	....	....	.13	....	....	....	.17	....	....	....	....	....	.31	....	....	....	....	2.25
Farmington[2]	St. Francis	....	.41	....	....	....	....	.01	....	.83	....	....	.05	.72	....	....	....	....	....	....	....	.52	....	....	*T.*	....	....	.57	....	....	....	....	3.11
Fisk[2]	do	....	....	T.	....	....	T.	T.	....	.53	.89	.02	....	.45	....	....	....	.10	....	T.	....	.24	....	....	....	....	....	.70	....	....	....	....	2.93
Fredericktown[2]	do	....	.60	....	....	....	....	....	....	.66	.06	T.	T.	.36	....	....	....	....	....	....	....	.19	....	....	....	....	....	.53	....	....	....	....	2.40
Gerald[2]	Meramec	....	....	....	....	....	....	....	....	.22	....	....	....	.53	....	....	....	....	....	....	....	.13	....	....	....	....	....	....	....	....	....	....	0.88
Greenville(1)	St. Francis	....	.57	....	....	....	....	....	....	.46	.29	....	....	.27	....	....	....	....	....	....	....	.41	....	....	....	....	....	.70	....	....	....	....	2.70
Greenville[2] (2)	do	....	.32	....	....	....	....	.02	....	.43	.27	....	.03	.27	....	....	....	.03	....	.02	....	.44	....	....	....	....	....	.73	....	....	....	....	2.56
High Lookout[2]	Black	....	.50	....	....	....	....	.08	....	.31	.27	.01	.02	.33	....	....	....	.09	....	....	....	.10	....	....	....	....	....	.37	....	....	....	....	2.08
Jackson	Mississippi	....	....	....	....	....	....	....	....	2.80	.42	.01	....	....	....	....	....	....	....	....	....	.66	....	....	....	....	....	.85	....	....	....	....	4.74
Jefferson Barracks[2]	Mississippi	....	.15	....	....	....	T.	....	....	.24	....	....	....	.35	....	....	....	....	....	T.	....	.40	....	T.	....	....	....	.53	....	....	....	....	1.67
Jerome[2]	Gasconade	....	....	....	....	....	....	....	....	*.31*	....	....	....	.21	....	....	....	....	....	....	....	.12	....	....	....	....	....	*.03*	....	....	....	....	§0.67
Koshkonong[2]	Black	....	.18	....	....	....	.06	....	....	.18	.50	.01	T.	.78	....	....	....	.26	....	.01	....	.12	....	....	....	....	....	.53	....	....	....	....	2.63
Leeper[2]	do	....	.40	....	....	....	T.	.02	....	.02	.33	....	.29	.41	....	....	....	....	....	....	....	.32	.04	....	....	....	....	.71	....	....	....	....	2.54
Licking(1)... 4 miles N	Gasconade	....	....	....	....	....	....	....	.30	....	....	....	....	.70	....	....	....	....	....	....	....	.56	....	....	....	....	....	T	....	....	....	....	1.56
Licking(2)[2]	do	....	.02	....	....	....	....	....	....	.09	....	....	....	.87	....	....	....	....	....	....	....	.30	....	....	....	....	....	.19	....	....	....	....	1.47
Low Gap	Black	....	.32	....	....	....	.03	....	.30	.15	T.	....	.04	.21	....	....	....	....	....	....	....	.15	....	T	....	....	....	.14	....	....	....	....	1.34
Macedonia Lookout[2]	do	....	.09	....	....	....	.02	....	....	.44	.41	....	.04	.24	....	....	....	.18	....	.02	....	.09	....	....	....	....	....	.96	....	....	....	....	2.49
Malden[3]...4 miles NNW	Mississippi	T.	.12	....	....	....	T.	....	1.63	.04	1.11	T.	.38	.03	T.	....	T.	T.	T.	T.	T.	.14	....	T.	....	....	.55	T.	....	....	....	....	4.00
Marble Hill	do	....	.55	....	....	....	....	....	.47	....	.33	....	T.	....	....	....	....	.20	....	.42	....	....	....	....	....	....	....	.74	....	....	....	....	2.71
Meramec Park[2]	Meramec	....	.09	T.	....	....	T.	T.	....	.21	....	....	....	.42	....	....	....	....	....	....	....	.41	....	....	T	....	....	.07	....	....	....	....	1.20
Morehouse	Mississippi	....	.11	....	....	....	....	....	....	1.22	1.27	....	.02	.91	....	....	....	....	....	....	....	.11	....	....	....	....	....	.88	....	....	....	....	4.52
Moselle[2]	Meramec	....	.17	....	....	....	.02	....	....	.45	....	....	....	.39	....	....	....	....	....	....	....	.26	....	....	....	....	....	.35	....	....	....	....	1.64
New Madrid[2]	Mississippi	....	T.	T.	....	....	....	.07	....	.74	1.25	.22	T.	.58	....	....	....	....	....	T.	....	.27	....	....	T.	....	....	.95	....	....	....	....	4.08
Owensville[2]	Gasconade	....	....	....	....	....	....	....	....	.30	....	....	....	.75	....	....	....	....	....	....	....	*.21*	....	....	....	....	....	*.04*	....	....	....	....	§1.30
Pacific[2]	Meramec	....	....	....	....	....	....	*	*	.70	....	....	....	*.37*	....	....	....	....	....	....	....	*.32*	....	....	....	....	....	*.24*	....	....	....	....	§1.63
Parma[2]	St. Francis	....	T.	....	....	....	....	.04	....	1.04	1.02	....	T.	.06	....	....	....	....	....	....	....	.20	....	....	....	....	....	.55	....	....	....	....	2.91
Perryville	Mississippi	....	.26	....	....	....	....	....	....	.64	.10	....	.28	....	....	....	....	....	....	....	....	T.	....	....	....	....	....	.60	....	....	....	....	1.88
Pilot Knob[2]... 2 mi. NE	St. Francis	....	.61	....	....	....	....	....	....	2.00	....	....	.03	....	....	....	....	....	....	....	....	.14	....	....	....	....	....	.40	....	....	....	....	3.18
Poplar Bluff[2] ....(A)	Black	....	T.	....	....	....	....	....	....	.36	.56	.03	....	.53	....	....	....	....	....	....	....	.18	....	....	....	....	....	.72	....	....	....	....	2.38
Poplar Bluff[2] ....(B)	do	....	.01	....	....	....	....	T.	....	.27	.66	T.	.02	.46	....	....	....	.13	....	.02	....	.13	T.	....	....	....	....	.66	....	....	....	....	2.36
Puxico[2]	St. Francis	....	....	....	....	....	....	....	....	.65	.65	.01	.01	.37	....	....	....	.13	....	T.	....	.12	T.	....	....	....	....	.80	....	....	....	....	2.74
Qulin[2]	do	....	.15	....	....	....	T.	....	....	.95	.93	.02	T	.69	....	....	....	.02	....	.02	....	.21	T.	....	....	....	....	.34	....	....	....	....	3.33
Reynolds[2]	Black	....	.83	....	....	....	....	....	....	.81	.10	....	.05	.57	....	....	....	....	....	....	....	.15	....	....	....	....	....	.54	....	....	....	....	3.05
Richwoods[2]	Meramec	....	....	....	....	....	T.	.08	....	....	....	....	T.	.67	....	....	....	....	....	....	....	.40	....	T.	....	....	....	.32	....	....	....	....	1.47
Rolla[2]	do	....	T.	....	....	....	....	....	....	.05	....	....	T.	.30	....	....	....	....	....	....	....	.35	T.	....	....	....	....	....	....	....	....	....	0.70
Round Spring[2]	Black	....	....	....	....	....	....	....	....	.14	....	....	....	.60	....	....	....	....	....	....	....	.10	....	....	....	....	....	.70	....	....	....	....	1.54

Continued on next page

Daily Precipitation for November 1945—Continued from preceding page

Stations	Drainage-basins	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	..	Total
Southeastern Division —	*Concluded*																																
St. Louis:																																	
City Office[1], [5]	Mississippi	.17	T.	....	....	....	T.	....	.33	....	....	T.	.33	....	....	....	T.	T.	....	T.	.23	.16	....	T.	....	....	.43	.03	....	....	....	....	1.68
Airport[3], [5]	Missouri	.08	.03	....	....	....	T.	....	.36	....	....	T.	.49	....	....	....	T.	....	....	.03	.26	.05	T.	T.	....	....	.33	T.	....	....	....	....	1.63
St. Louis Univ.[1], [5]	Mississippi	.13	.01	....	....	....	T.	....	.31	....	....	.01	.41	....	....	....	....	T.	....	T.	.36	.14	T.	.02	....	....	.37	.02	....	....	....	....	1.78
Washington Univ.[2]	....do	....	.11	.01	....	....	....	....	....	.35	....	....	....	.47	....	....	....	....	....	....	....	.34	....	....	....	....	....	.55	....	....	....	....	1.83
Salem	Meramec	....	.27	....	....	....	....	....	.23	....	....	....	.49	.13	....	....	....	....	....	....	....	.32	....	....	....	....	....	.14	....	....	....	....	1.58
Sikeston[2]	Mississippi	....	.09	....	....	....	....	T.	....	1.30	1.30	.05	.11	.78	T.	....	....	T.	....	.01	....	.10	.02	....	....	....	....	1.05	....	....	....	....	4.81
Steelville[2] ...2½ mi. NE	Meramec	....	.01	....	....	....	....	....	....	.16	....	....	....	.55	....	....	....	.01	....	....	....	.29	....	....	....	....	....	.06	....	....	....	....	1.08
Summersville[2]	Black	....	.31	....	....	....	.02	....	....	.15	.10	....	....	.45	.30	....	T.	T.	....	....	....	.10	....	....	....	....	....	.30	....	....	....	....	1.73
Union[2] ....1½ mi. SE	Meramec	....	....	....	....	....	....	.02	....	.17	....	....	....	.31	T.	....	....	....	....	....	....	.26	....	....	....	....	....	.05	....	....	....	....	0.81
Valley Park[2]	....do	....	.11	....	....	....	....	.07	T.	.32	....	....	....	.42	....	....	....	....	....	....	....	.24	....	T.	....	....	....	.38	....	....	....	....	1.54
Van Buren[2]	Black	....	.53	....	....	....	....	....	....	....	.41	....	....	.37	....	....	....	.11	....	....	....	.13	....	....	....	....	....	.53	....	....	....	....	2.08
Vichy[3] .....2 miles NW	Meramec	.07	....	....	....	....	....	T.	.30	....	....	....	.38	....	....	....	....	....	....	....	.06	.07	T.	T.	....	....	T.	T.	....	....	....	....	0.88
Wappapello Dam[2]	St Francis	....	.13	....	....	....	T.	.02	....	.48	.45	.02	.01	.35	....	....	....	.12	....	T.	....	.17	T.	....	....	....	....	.69	....	....	....	....	2.44
Webster Groves	Mississippi	....	.07	T.	....	....	T.	....	.40	T.	....	....	.11	.25	....	....	....	.02	....	....	....	.45	....	....	....	....	....	.45	....	....	....	....	1.75
Weingarten	....do	....	....	....	....	....	....	....	....	1.10	....	....	....	.55	....	....	....	....	....	....	....	.50	....	....	....	....	....	.55	....	....	....	....	2.70
West Plains[3]	Black	....	.22	....	....	....	T.	....	.53	.06	.20	T.	.53	.03	.02	....	T.	.13	....	....	T.	.08	....	....	....	....	.35	....	....	....	....	....	2.15
Williamsville[2]	....do	....	.25	....	....	....	....	....	....	.53	.26	....	....	.36	....	....	....	....	....	....	....	.53	.02	....	....	....	....	.66	....	....	....	....	2.61
Willow Springs[2] 500 ft E	White	....	.66	....	....	....	....	....	....	.21	.16	....	....	.69	....	....	....	....	....	....	....	.14	....	....	....	....	....	.69	....	....	....	....	2.55
Winona Ranger Sta.[2]	Black	....	.20	....	....	....	.06	....	....	.90	.25	.02	T.	.38	.06	....	....	.05	....	....	....	.25	....	....	....	....	....	.37	....	....	....	....	2.54
Zalma[2]	Mississippi	....	.32	....	....	....	....	T.	....	1.59	.38	.02	T.	.30	....	....	....	.08	....	....	....	.21	T.	....	....	....	....	.91	....	....	....	....	3.81
Cairo. Ill.[1], [5]	....do	....	.10	....	....	....	.01	....	1.03	.44	1.29	.01	.49	.21	....	....	T.	....	.01	....	....	.16	....	T.	....	....	1.12	.25	....	....	....	....	5.12
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
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Except as otherwise indicated, amounts are for 24 hours ending late in afternoon. [1] Midnight to midnight. [2] Measured in the morning; for the preceding 24 hours. [3] Data for 24 hours ending 12:30 A. M. (C. S. T.) of following day. [5] Recording gage. T. Trace or 0.005 inch or less. * Included in next measurement. // Windshield on gage. Italics data interpolated. § Partly interpolated. (A) Record from cooperative station gage. (B) Record from river station gage. ‡ Received too late to be included in means and extremes.

Daily Evaporation (inches), Mean Temperature (F°), and Wind Movement (miles) for November 1945

(See precipitation data in daily precipitation table)

Station	Data	Day of month																															Monthly
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	..	
Columbia (Univ. of Mo. Hort. Exp. Sta. 9 mi. WNW.)	Evaporation	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.....
	Mean temperature	66	56	39	40	60	68	68	50	34	42	41	58	48	46	40	52	55	50	46	40	37	21	26	32	35	38	42	38	31	32	..	44.2
	Wind movement	157	58	66	61	136	169	155	253	13	39	63	232	55	31	51	238	101	50	49	44	78	126	197	95	20	55	149	93	12	50	..	2,896
Lakeside (Osage Dam)	Evaporation	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.....
	Mean temperature	69	55	42	46	58	70	70	71	38	40	50	57	46	44	44	46	60	52	46	43	36	29	31	42	39	40	43	40	37	38	..	47.6
	Wind movement	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
St. Louis (Washington University)	Evaporation	.072	.067	.141	.101	.067	.108	.021	.111	.118	.070	.033	.000	.055	.083	.054	.054	.079	.056	.054	.034	.044	*	*	*	*	*	.212	.062	.036	.024	....	1.756
	Mean temperature	66	58	43	42	52	61	68	69	38	38	47	56	49	40	39	45	56	52	45	41	41	26	27	40	37	40	41	38	37	38	..	45.7
	Wind movement	42	40	67	40	37	76	87	107	72	55	37	45	66	59	32	51	77	29	41	36	48	73	76	41	43	27	38	66	67	46	..	1,621

Observations taken at 8:00 a. m. except at 7:30 a. m. at Lakeside. For Lakeside and St. Louis (Washington University) descriptions see April 1932 and August 1938 reports, respectively. * Included in next measurement.

(Continued from page 83)

It is very unusual, and in all probability without precedent, that so many of our faithful and loyal co-workers should pass on in such a short period of time. The Weather Bureau and the communities served by these public servants have suffered an irreparable loss and owe much to them for the public service they have performed during their tenure as cooperative observers. Although they have passed in death, memories of them will live forever through the climatic records which they compiled for their respective communities and which were subsequently published and preserved for the benefit of this and future generations.

ERRATA

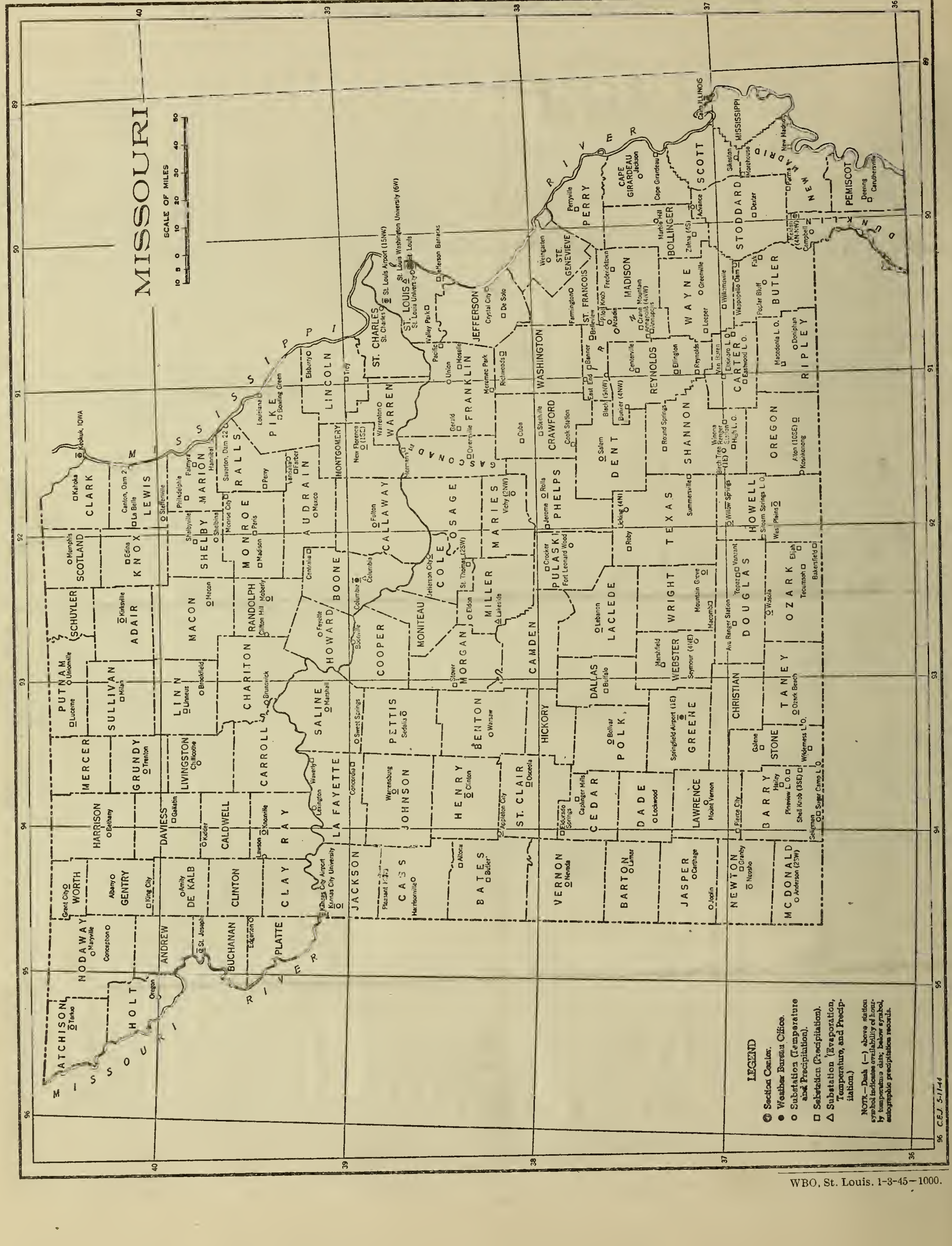
May 1945, page 34: Mean temperature and departure at Macon should be 57.6 and −5.9, respectively. Page 39: Minimum temperature on 11th at Macon should be 38; mean minimum should be 47.4.

October 1945, page 73: Degree days at Springfield should be 267. Page 74: Greatest precipitation in 24 hours at Columbia should be 0.63 on Sept. 30th-Oct 1st.

Daily Temperatures for November 1945

Stations		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	..	Mean
Northern Division																																	
Brunswick /	Maximum	73	56	48	62	74	80	77	72	43	54	57	68	51	47	59	64	58	67	51	55	29	27	33	54	43	50	51	45	47	41	..	54.5
	Minimum	40	48	33	24	25	47	57	54	25	25	30	42	36	27	26	26	51	37	35	33	28	18	20	20	25	24	25	31	23	23	..	31.9
Chillicothe /	Maximum	69	50	47	61	74	79	76	71	42	54	62	65	52	53	59	64	57	65	50	55	27	26	32	51	42	46	49	44	47	41	..	53.7
	Minimum	41	45	33	23	25	50	44	44	23	24	31	42	34	25	24	24	40	38	30	30	24	15	18	18	23	24	26	30	23	24	..	29.8
Columbia	Maximum	77	61	51	60	75	82	79	72	47	53	52	71	55	48	58	63	63	66	52	54	50	27	33	56	47	53	53	45	41	44	..	56.3
	Minimum	60	40	33	27	54	57	62	31	26	35	42	48	38	29	28	46	41	37	37	34	22	19	22	25	26	28	32	31	25	29	..	35.5
Fayette	Maximum	74	64	49	60	74	81	78	72	46	54	50	70	60	43	57	63	61	65	59	54	47	28	32	55	45	52	53	45	42	42	..	55.3
	Minimum	57	46	31	22	46	55	56	37	23	32	37	47	35	25	24	45	49	33	34	32	24	18	20	20	32	24	31	30	24	22	..	33.7
Grant City	Maximum	68	58	45	63	75	76	69	39	49	50	46	68	55	46	58	65	56	63	52	54	46	23	35	50	47	45	45	48	45	44	..	52.8
	Minimum	51	40	27	18	46	49	27	18	21	32	37	40	32	22	21	47	37	33	24	33	18	11	14	24	21	21	26	28	22	29	..	29.0
Hannibal	Maximum	77	59	47	53	73	73	79	70	45	50	48	70	54	44	52	60	58	62	50	46	45	27	31	51	38	47	45	43	38	39	..	52.5
	Minimum	55	39	28	21	48	55	63	32	24	31	37	47	35	27	23	43	38	33	34	31	19	15	19	23	23	22	32	31	33	30	..	33.0
Kansas City Airport	Maximum	72	56	51	70	74	81	74	71	43	55	58	70	51	52	65	63	63	67	57	60	37	28	41	58	49	50	56	42	50	56	..	57.3
	Minimum	55	39	32	31	52	60	45	32	27	32	45	45	37	29	30	50	41	39	31	37	24	20	22	34	26	28	32	27	24	29	..	35.2
Kirksville	Maximum	70	62	46	54	72	76	75	70	42	49	45	65	61	46	53	63	59	65	53	48	41	23	29	46	38	43	42	43	42	43	..	52.1
	Minimum	51	46	32	19	48	51	48	34	22	25	33	41	37	26	22	44	44	37	31	32	22	13	17	22	22	21	30	29	28	28	..	31.8
Lawson	Maximum	69	59	49	64	75	79	73	70	44	54	47	67	51	50	62	63	60	63	57	59	54	26	36	55	47	42	52	44	47	50	..	55.6
	Minimum	55	42	31	24	48	56	40	34	19	27	40	43	33	24	25	47	40	40	24	30	21	14	18	26	22	24	29	25	21	27	..	31.6
Louisiana	Maximum	80	68	50	52	75	73	81	74	43	52	47	72	62	49	51	61	64	63	55	47	48	28	32	53	50	50	50	44	40	42	..	55.2
	Minimum	57	45	35	18	46	52	55	43	25	34	39	45	38	30	20	42	50	30	38	29	26	18	22	21	23	20	34	33	35	33	..	34.5
Macon /	Maximum	72	55	47	57	74	79	78	68	45	52	57	68	54	46	55	63	56	64	52	50	28	26	31	51	42	47	45	46	43	45	..	53.2
	Minimum	37	45	32	21	24	50	55	55	23	23	29	42	37	27	22	23	48	34	34	31	27	15	19	19	22	21	22	29	26	29	..	30.7
Maryville	Maximum	69	55	47	65	74	75	67	64	39	50	46	69	53	46	60	67	56	62	53	55	44	25	35	50	43	38	47	42	44	45	..	52.8
	Minimum	52	38	27	23	43	50	35	29	19	26	40	44	30	22	21	48	36	32	22	34	18	6	15	22	21	23	24	25	25	28	..	29.3
Mexico /	Maximum	76	58	47	55	75	78	77	71	46	51	57	71	55	36	55	61	61	65	55	50	32	26	54	31	43	50	48	44	39	40	..	53.6
	Minimum	41	47	32	21	32	49	58	62	23	26	33	41	37	28	24	27	48	35	37	30	31	18	21	22	22	23	27	30	27	31	..	32.8
Moberly /	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
Oregon	Maximum	70	68	67	70	77	79	71	71	42	54	47	71	55	49	64	66	60	64	56	55	46	28	41	52	46	44	52	42	48	50	..	56.8
	Minimum	52	31	29	25	45	49	35	30	20	27	41	44	31	23	22	49	40	40	25	36	19	12	17	30	23	26	30	25	24	29	..	31.0
St. Charles /	Maximum	81	65	52	59	76	70	80	73	48	47	57	71	55	53	53	62	67	64	48	50	40	30	44	60	42	50	51	44	40	43	..	55.8
	Minimum	59	52	32	22	34	56	58	66	28	31	40	42	40	32	24	34	49	35	43	30	35	20	23	21	27	24	30	32	36	34	..	36.3
St. Joseph	Maximum	69	54	48	69	74	80	71	71	43	53	55	69	56	49	64	66	59	61	56	58	32	27	37	52	45	42	52	43	48	52	..	55.2
	Minimum	54	35	32	28	52	55	41	29	24	29	43	41	33	27	28	51	42	35	29	32	19	17	19	31	25	26	29	27	25	30	..	32.9
Trenton	Maximum	71	66	54	62	74	78	73	70	55	52	50	68	60	50	61	65	60	65	60	52	49	26	30	52	46	44	48	47	47	46	..	56.0
	Minimum	53	40	34	20	47	51	43	38	21	26	38	40	35	25	22	35	42	33	29	31	22	15	17	24	24	26	27	29	24	27	..	31.3
Unionville /	Maximum	71	52	48	56	73	77	72	70	45	50	58	63	55	47	55	64	56	63	55	53	25	25	32	50	35	42	41	45	45	43	..	52.2
	Minimum	34	41	27	16	17	45	43	43	18	18	24	38	33	25	21	25	40	35	26	26	23	10	13	15	20	20	20	27	22	20	..	26.2
Warrenton	Maximum	79	69	52	54	75	71	80	75	48	47	47	73	50	49	54	61	66	64	55	50	49	30	33	59	50	52	51	45	42	45	..	55.8
	Minimum	56	47	29	18	48	55	62	42	23	35	38	43	35	30	20	40	52	31	38	26	26	17	22	21	22	22	31	32	29	31	..	34.0
Keokuk, Iowa	Maximum	72	56	44	52	72	72	77	69	42	48	48	70	53	42	50	62	56	62	47	44	44	24	29	47	34	44	41	42	38	37	..	50.6
	Minimum	54	39	26	22	52	53	61	31	26	30	37	46	30	28	26	48	38	37	34	32	18	15	19	26	25	24	34	31	34	32	..	33.6
Southwestern Division																																	
Clinton	Maximum	75	60	52	62	75	83	76	70	48	55	54	70	52	55	64	63	65	72	54	61	45	31	40	60	50	56	57	42	49	60	..	58.5
	Minimum	56	37	34	30	50	58	60	30	26	36	45	46	38	29	30	46	41	38	31	30	24	22	23	27	26	30	32	27	25	29	..	35.2
Eldon	Maximum	..	..	..	..	..	..	..	..	48	52	53	76	66	53	59	60	66	65	60	57	55	30	35	61	53	54	56	50	41	46	..	[h]54.4
	Minimum	..	..	..	..	..	..	..	..	25	35	39	49	44	30	28	45	54	37	36	30	28	20	21	25	26	28	34	30	25	27	..	[h]32.5
Harrisonville /	Maximum	70	60	53	68	73	81	74	69	47	54	60	68	52	57	65	63	65	67	56	60	34	30	43	59	52	53	52	43	43	57	..	57.6
	Minimum	45	43	28	29	30	48	51	52	23	27	29	41	32	26	27	36	43	38	26	27	23	18	18	19	23	24	31	23	23	27	..	31.0
Jefferson City	Maximum	77	63	50	61	78	81	78	71	51	67	75	72	56	50	59	59	65	67	54	56	50	28	34	61	49	56	55	46	46	44	..	58.8
	Minimum	59	45	30	23	44	57	64	24	36	32	43	41	35	29	25	44	36	31	31	27	25	19	22	19	25	25	32	28	23	26	..	33.3
Joplin	Maximum	77	66	52	68	74	82	78	73	47	52	60	68	59	59	65	66	66	68	57	65	47	36	43	60	54	62	56	47	58	62	..	60.9
	Minimum	65	43	35	38	56	68	68	38	33	42	44	54	43	37	39	53	48	46	35	41	29	24	24	33	33	43	39	34	30	37	..	41.7
Lamar /	Maximum	78	65	57	69	75	83	78	68	47	55	63	69	57	62	67	64	71	65	58	65	41	38	47	60	55	58	61	46	56	59	..	61.2
	Minimum	58	46	30	29	33	53	64	64	29	29	38	43	35	31	30	35	47	39	31	31	29	20	20	21	28	28	30	28	23	25	..	34.9
Lebanon	Maximum	79	71	56	63	73	77	76	71	47	49	53	69	60	55	58	58	67	62	60	57	53	33	37	61	56	52	55	51	50	51	..	58.7
	Minimum	65	47	30	27	51	56	66	43	24	37	40	45	35	29	30	43	54	36	35	32	28	22	21	23	23	30	33	29	24	28	..	36.2
Lexington /	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
Marshall	Maximum	73	73	57	67	77	86	86	87	49	53	64	77	62	55	64	68	69	70	72	59	60	28	36	59	56	58	58	54	47	47	..	62.4
	Minimum	57	46	34	26	57	54	60	39	26	33	33	60	38	28	26	48	54	49	32	32	24	18	20	25	25	25	30	29	25	27	..	36.0
Mountain Grove	Maximum	79	75	64	61	70	71	75	68	50	44	46	66	61	58	55	56	68	62	56	56	52	36	36	60	54	50	54	49	51	45	..	57.6
	Minimum	63	51	33	29	44	54	61	49	27	36	38	43	39	33	32	39	51	39	35	33	29	23	21	25	29	30	35	30	23	28	..	36.7
Neosho	Maximum	80	73	59	70	75	83	80	74	52	52	63	70	62	59	66	67	69	68	60	65	60	38	44	64	58	63	59	55	59	62	..	63.6
	Minimum	67	42	30	30	53	60	60	47	29	38	39	58	35	28	30	50	51	33	31	28	29	18	23	21	25	30	29	25	23	29	..	36.4
Nevada	Maximum	74	68	55	70	76	82	78	73	50	57	55	68	57	62	66	63	68	69	60	65	58	34	45	62	57	57	58	50	56	61	..	60.8
	Minimum	65	47	30	29	53	57	61	44	26	35	42	55	34	28	34	46	47	40	32	35	25	22	22	25	29	33	30	27	23	30	..	36.9
Sedalia	Maximum	74	66	50	64	74	81	77	72	46	54	51	70	62	51	62	63	63	67	59	58	53	29	36	58	50	55	55	45	48	50	..	58.1
	Minimum	60	45	31	27	49	55	61	39	24	34	39	50	35	27	28	48	48	40	33	33	25	18	20	24	26	28	31	25	24	27	..	35.1
Springfield . 4 mi. NW	Maximum	80	65	50	66	73	80	75	74	49	47	52	70	57	55	59	62	66	61	54	60	51	34	39	61	54	51	55	45	54	48	..	58.2
	Minimum	57	40	32	32	50	58	63	34	27	41	40	47	38	31	34	43	41	40	33	37	24	22	21	23	26	36	31	28	24	32	..	36.2
Warrensburg	Maximum	71	68	50	65	73	80	77	75	46	57	50	67	62	52	63	63	63	69	61	58	55	34	37	57	..	57	55	51	50	56	..	[a]59.4
	Minimum	60	47	33	27	50	56	59	39	27	32	43	49	37	29	28	47	48	43	30	34	24	18	21	26	..	26	31	28	26	27	..	[a]36.0
Southeastern Division																																	
Arcadia /	Maximum	80	74	56	60	72	68	78	70	54	47	50	71	67	56	54	59	74	65	55	56	55	38	35	60	54	55	60	50	44	57	..	59.1
	Minimum	57	55	35	24	24	42	55	64	32	30	39	40	44	37	24	24	40	32	32	24	31	23	23	25	25	20	20	33	32	29	..	33.8
Birch Tree . . ½ mile E	Maximum	78	73	55	60	71	68	76	68	52	45	46	70	65	56	54	56	72	..	62	57	52	39	35	61	55	53	57	47	51	43	..	[a]57.8
	Minimum	57	52	32	23	46	54	62	51	31	38	40	43	37	36	25	38	32	..	33	30	32	17	18	13	27	23	33	30	23	22	..	[a]34.4
Caruthersville	Maximum	76	73	64	58	70	74	75	77	70	48	52	77	70	62	54	60	71	67	63	57	57	46	39	52	56	64	62	53	45	50	..	61.4
	Minimum	65	43	43	33	45	55	64	64	43	40	42	51	58	46	36	38	53	48	51	37	39	26	26	25	32	34	42	37	36	37	..	43.0
Crystal City	Maximum	82	78	55	57	75	69	81	72	68	47	50	73	72	52	56	62	72	68	59	54	50	35	35	63	58	58	52	51	41	46	..	59.7
	Minimum	61	50	34	23	49	57	65	67	30	40	43	47	40	35	24	43	54	32	42	30	32	21	25	18	27	36	21	36	32	34	..	38.3
Doniphan	Maximum	76	77	70	62	73	70	75	74	70	49	49	76	76	62	57	62	79	65	66	61	56	45	45	62	61	57	61	53	49	53	..	63.0
	Minimum	62	56	38	24	43	55	64	64	46	40	42	45	46	35	25	29	53	30	42	25	39	18	25	14	25	22	35	28	29	23	..	37.4
Farmington	Maximum	77	72	58	57	70	65	76	70	66	44	46	71	68	52	52	53	71	65	58	55	49	35	32	60	53	56	57	52	39	50	..	57.6
	Minimum	64	53	34	26	46	52	64	64	30	39	40	43	43	35	25	40	51	33	44	29	31	22	22	21	30	23	36	32	33	31	..	37.9
Jackson	Maximum	73	72	71	59	69	68	69	74	71	46	47	73	71	59	51	57	74	65	55	56	57	41	39	52	59	57	58	56	42	47	..	59.6
	Minimum	62	54	38	39	35	34	43	53	36	32	31	41	49	40	32	36	46	37	28	31	35	25	19	18	27	25	38	34	34	34	..	36.2
Poplar Bluff	Maximum	72	71	61	61	72	70	73	75	70	60	48	76	70	60	56	60	74	63	68	60	57	46	38	54	58	59	60	51	45	49	..	61.2
	Minimum	61	59	35	25	42	51	64	63	37	40	41	46	46	39	26	29	54	35	32	26	31	22	23	19	28	24	37	31	27	27	..	37.5
Rolla /	Maximum	80	66	52	62	73	73	78	70	48	47	61	68	57	52	57	61	69	64	52	56	37	32	41	62	49	53	55	45	44	40	..	56.8
	Minimum	65	51	33	30	45	55	63	65	26	34	39	42	39	32	28	39	50	37	38	32	30	19	21	24	28	26	33	31	28	27	..	37.0
St. Louis	Maximum	80	64	49	52	72	68	78	72	46	45	48	71	57	46	51	60	66	62	54	51	47	29	32	60	44	51	51	42	38	41	..	54.2
	Minimum	61	42	38	30	51	56	65	38	32	40	42	47	45	32	32	40	48	41	36	33	26	20	24	26	30	30	35	36	36	33	..	38.2
Salem	Maximum	80	73	54	61	74	70	78	69	49	46	49	69	61	54	56	60	71	64	55	58	51	35	34	62	51	53	56	46	48	40	..	57.6
	Minimum	65	48	33	25	43	55	62	47	28	39	40	44	36	33	24	41	51	33	39	31	30	22	22	21	26	23	35	31	24	24	..	35.8
Sikeston /	Maximum	72	75	58	60	73	71	71	77	47	44	59	71	69	56	55	61	75	64	59	60	55	45	36	52	54	62	59	48	42	50	..	59.3
	Minimum	57	50	38	28	30	50	57	64	39	39	40	43	55	41	28	33	42	38	43	31	35	25	25	22	26	27	29	35	33	36	..	38.0
Union . . . . . . 1½ mi. SE	Maximum	81	72	52	56	76	71	81	74	49	47	51	72	64	58	56	62	68	66	57	56	52	31	33	61	51	55	55	48	41	45	..	58.0
	Minimum	59	48	31	22	38	51	65	45	27	38	41	45	36	32	23	42	53	31	40	21	28	20	24	17	26	21	34	33	29	33	..	35.1
West Plains	Maximum	80	74	56	62	71	70	77	68	50	45	46	70	67	58	57	57	72	61	58	58	54	40	38	62	57	53	58	50	53	42	..	58.8
	Minimum	62	48	28	25	35	53	62	38	30	38	40	45	36	31	26	39	37	31	28	25	25	23	22	18	27	23	36	26	21	22	..	33.3
Cairo, Ill.	Maximum	75	71	55	54	69	71	72	75	49	44	53	74	66	52	51	59	70	64	61	55	55	41	33	49	51	60	55	47	42	46	..	57.3
	Minimum	64	52	41	36	47	56	65	49	40	41	42	53	50	40	34	41	55	43	39	37	31	27	27	26	34	32	43	38	39	33	..	41.8

/ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs. [a], [b], [c], etc., number of days missing, for example, [b] indicates two days missing. Italics data interpolated. § Partly interpolated.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10 5 0 10 20 30 40 50
LEGEND
⊚ Section Center.
● Weather Bureau Offices.
○ Substation (Temperature and Precipitation).
□ Substation (Precipitation).
△ Substation (Evaporation, Temperature, and Precipitation.)
NOTE.—Dash (—) above station symbol indicates availability of hourly temperature data; below symbol, autographic precipitation records.
C.E.J. 5-1-44

WBO, St. Louis. 1-3-45—1000.

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Vol. XLVIV   December 1945   No. 12

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GENERAL SUMMARY

December was a cold, damp, cloudy month with unprecedentedly heavy snowfall. It was generally unfavorable for most outdoor work and for livestock, the ground being snow-covered much of the time after the 12-13th, particularly over the northern half of the State.

It was the coldest December since 1924 and the fifth-coldest of record in the 58 years State-wide records have been kept. Although there were no unusual extremes reported, temperatures were generally below normal throughout most of the month, with a prolonged cold period from the 10th to the 23d, inclusive. The 19th and 20th were the coldest days, as a rule, while the 7th and 8th were the warmest days of the month. Minimum temperatures of 32°, or lower, occurred on an average of 28 days during the month, while zero or lower, occurred on an average of 2 days, for the State as a whole. All divisions of the State averaged from approximately 5° to 7° below their respective normals and each individual station reported a monthly average well below normal, indicating the prevailing low temperatures were general over the entire State.

Precipitation averaged 0.78 inch less than normal for December and was irregularly distributed, occurring as rain, snow, and sleet, at frequent intervals. A rather general occurrence of rain, freezing as it fell, prevailed on the 23d-24th over much of the State, resulting in the formation of glaze which seriously interfered with a heavy holiday traffic. However, there was practically no damage to trees and communications and power lines, as a result of the glaze. The Northern Division received the most precipitation during the month, the average being 1.87 inches, or 0.29 inch in excess of normal. The other two divisions of the State both had monthly averages less than normal, i. e: Southwestern 0.96 inch, —1.09 inches; Southeastern 1.34 inches, −1.55 inches. The average monthly snowfall of 7.9 inches this month was the most ever received in Missouri, during December, in the 56 years that snowfall records are available. Many stations in the northern half of the State received from 10 to 16 inches of snow during December, while smaller amounts fell over the southern half.

There were no damaging storms of any kind reported during the month. River stages receded generally and at the close of December were at relatively low levels.

Due to the prevailing low temperatures and snow covered ground, very little farm work, other than daily chores, was accomplished during the month. The snow-cover provided a protecting blanket for the winter wheat crop, which was generally in good condition at the close of December. Some corn was still in the fields. Heavy feeding of livestock was necessary, as pastures and ranges were covered with snow the greater part of the month, especially over the northern half of the State. Large quantities of fuel were also consumed as a result of the prolonged cold weather.—M. R. W.

TEMPERATURE

The monthly mean for the State, 99 stations reporting, was 27.8°, or 6.3° colder than the 58-year December average. The highest monthly mean was 36.1° at Caruthersville, and the lowest was 19.8° at Tarkio. The highest reported was 70° at Ozark Beach on the 8th, and the lowest was 20° below zero at Tarkio on the 19th.

(Continued on page 91)

PRESSURE, WIND, HUMIDITY, AND SUNSHINE

Stations	Sea-level pressure, extremes-inches: Highest	Date	Lowest	Date	Wind: Average hourly velocity	Maximum velocity	Direction	Date	Relative humidity: 6:30 a. m.	12:30 p. m.	6:30 p. m.	Percentage of sunshine	Degree days
Columbia........	30.50*	11	29 44*	25	8.1	20	nw.	30	77*	66*	69*	42	1195
Kan. City Airp't*	30.48	11	29.36	24	10.4	26	nw.	30	80	68	69	41	1216
St. Joseph........	30.50*	17	29.41*	29	9.0	24	nw.	8	81*	69*	73*	42	1268
St. Louis......	30.51*	17	29.46*	29	11.9	33	sw.	8	82	67	64*	42	1130
Springfield......	30.49	16	29.39	24	13.4	42	nw.	30	87	75	79	35	1109
Cairo, Ill........	30.52	16	29.56	25	9.3	29	n.	4	82	68	..	43	983
....	.....	..	.....	..	....	..	......	..	..	..	..	..	....

* Data for Airport station.

COMPARATIVE DATA FOR DECEMBER

Year	Temperature: Average for State	Highest	Lowest	Precipitation: Average for State	Average, Northern Division	Average, Southwestern Division	Average, Southeastern Division	Snowfall, Average for State	Number of days: Precip. .01 inch or more	Clear	Partly cloudy	Cloudy
1888	35.9	70	0	2.43	1.88	3.03	2.39	....	6	..	..	..
1889	46.8	80	2	1.09	0.60	0.85	1.82	0.1	3	..	..	..
1890	36.0	76	− 3	1.18	0.82	1.14	1.57	4.6	3	..	..	..
1891	39.8	72	− 1	1.88	1.91	1.67	2.05	....	6	..	..	..
1892	29.4	75	−22	2.50	1.69	2.76	3.04	4.8	6	8	7	16
1893	35.2	76	− 7	0.97	0.80	0.67	1.44	2.7	5	11	11	9
1894	36.7	75	− 7	2.41	1.19	2.33	3.70	1.3	5	14	8	9
1895	34.3	69	− 8	6.40	5.12	8.57	5.50	3.4	8	9	8	14
1896	38.6	79	− 5	0 92	0.84	1.17	0.75	T.	3	13	8	10
1897	29.3	74	−14	3.03	1.92	2.98	4.19	6.3	7	8	8	15
1898	28.7	74	−20	1.65	1.62	1.84	1.48	5.1	5	17	6	8
1899	30.4	75	−13	2.22	1.90	2.02	2.74	6.6	9	12	9	10
1900	35.6	68	− 3	0.79	0.47	0.55	1.35	0.6	4	14	8	9
1901	28.5	71	−29	3.20	2.26	2.98	4.35	6.9	8	11	7	13
1902	30.7	68	− 7	3.32	2.02	2.76	5.18	3.1	8	10	4	17
1903	30.2	65	−11	1.70	1.65	1.56	2.49	2.3	5	16	7	8
1904	32.9	75	−10	1.55	1.56	1.24	1.84	6.0	5	16	7	8
1905	33.3	66	− 2	1.71	0.79	1.44	2.89	1.7	4	18	6	7
1906	36.1	73	0	2.52	1.67	1.85	4.05	0.6	8	8	6	17
1907	37.7	76	3	1.75	1.22	1.69	2.34	3.7	7	11	7	13
1908	38.4	80	− 4	0.78	0.54	0.94	0.86	T.	3	16	7	8
1909	24.9	76	−17	2.87	2.82	2.80	3.00	7.7	8	12	6	13
1910	31.2	67	− 5	1.49	0.94	1.14	2.40	2.4	4	16	5	10
1911	36.7	74	−11	2 85	2.74	2.56	3.26	5.1	7	13	6	12
1912	36.5	72	2	0.62	0.54	0.49	0.82	0.6	3	19	5	7
1913	38.3	74	− 3	2.26	2.11	2.84	1.83	6.6	7	9	4	18
1914	26.8	68	−18	2.51	1.69	2.20	3.65	6.6	9	7	5	19
1915	34.7	68	−13	2.99	1.48	2.45	5.03	7.8	6	12	6	13
1916	31.3	82	−29	1.92	0.78	1.54	3.44	4.4	6	15	6	10
1917	25.5	82	−23	0.76	0.41	0.75	1.13	7.3	5	11	7	13
1918	40.0	83	−12	3.23	2 27	2.81	4.62	7.8	7	13	6	12
1919	28.5	74	−22	0.72	0.41	0.66	1.08	0.7	3	12	4	15
1920	35.6	77	−10	2.12	1.25	1.49	3.61	2.3	5	13	7	11
1921	36.9	74	− 8	1.97	1.26	2.00	2.65	1.9	6	13	7	11
1922	36.3	75	− 6	2.27	0.75	1.71	4.35	0.2	6	15	6	10
1923	41.0	82	− 4	3.07	1.63	2.96	4.62	0.8	8	11	6	14
1924	27.7	80	−28	3.48	2.94	3.45	4.06	4.6	7	13	6	12
1925	31.6	69	−10	1.43	1.53	1.27	1.50	4.8	4	13	7	11
1926	32.6	75	−12	2.16	1.17	2.12	3.20	2.4	6	11	5	15
1927	29.9	74	−11	2.81	1.64	2.55	4.23	2.9	6	15	5	11
1928	36.2	81	0	2.29	1.37	2.49	3.00	1.4	5	14	6	11
1929	35.2	76	− 9	1.74	0.67	1.11	3.43	3.7	6	13	5	13
1930	34.2	70	2	1.24	0.79	1.35	1.57	1.9	5	15	6	10
1931	42.7	80	11	2.71	2.53	1.51	4.10	1.7	8	11	6	14
1932	31.2	77	−21	4.71	3.18	4.98	6.07	5.7	7	12	6	13
1933	39.1	78	− 7	1.92	1.52	1.67	2.56	0.4	5	12	7	12
1934	31.6	69	− 3	1.80	0.91	1.72	2.74	5.0	7	10	6	15
1935	30.7	66	−11	1.20	0.85	1.03	1.73	2.8	6	11	7	13
1936	38.4	69	− 7	2.83	2.19	2.71	3.60	2.2	7	12	7	12
1937	32.0	66	− 2	2.24	1.50	1.90	3.32	0.6	9	8	6	17
1938	35.9	72	2	1.83	1.66	1.52	2.32	0.2	6	15	7	9
1939	38.8	80	− 5	1.45	1.11	1.46	1.79	6.3	6	15	7	9
1940	38.6	78	− 2	2.59	1.77	2.33	3.66	1.7	8	10	5	16
1941	39.6	72	3	2.21	1.92	1.94	2.76	2.1	6	11	7	13
1942	32.7	76	− 4	4.01	3.38	4.32	4.34	7.4	10	8	7	16
1943	31.3	72	−20	2.10	1.88	2.38	2.04	6.8	6	12	6	13
1944	29.1	70	−14	2.26	2.05	1.88	2.86	5.1	8	8	7	16
1945	27.8	70	−20	1.39	1.87	0.96	1.34	7.9	8	10	7	14
....	....	..	....	....	....	....	....	....	..	..	..	..
....	....	..	....	....	....	....	....	....	..	..	..	..
....	....	..	....	....	....	....	....	....	..	..	..	..
Period..........	34.1	83	−29	2.17	1.58	2.05	2.89	3.6	6	12	7	12

Climatological Data for December 1945

Stations	Counties	Elevation, feet	Temperature, in degrees Fahr. Length of record, years	Mean	Departure from the normal	Highest	Date	Lowest	Date	Precipitation, in inches Length of record, years	Total	Departure from the normal	Greatest in 24 hours	Date	Total snowfall, unmelted	Number of days With precip., .01 inch or more	Clear	Partly cloudy	Cloudy	Prevailing direction of wind	Observers
Northern Division																					
Albany	Gentry	930	4	22.9	......	59	7	−15	18	16	2.37	+1.50	0.85	1	7.0	8	12	6	13	nw.	Curtis E. Grace
Bethany	Harrison	916	50	23.1	− 7.0	64	7	−14	19	52	2.31§	+1.16	0.86	1	*11.7*	8	14	3	14	nw.	B. A. McGregor
Brookfield	Linn	767	4	21.5	......	54	8	− 7	19	4	1.79§	......	....	..	11.0	7	14	1	16	nw.	G. F. Breen
Brunswick	Chariton	652	64	22.8	− 7.8	58	7	−12	20	66	1.36	−0.31	0.53	25	11.0§	7	13	4	14	nw.	O. K. Benecke
Canton, Lock & Dam 20	Lewis	488	7	22.7	......	56	7	− 7	21	15	2.51	+0.88	0.51	1–2	10.7	9	11	4	16	nw.	Lockmaster
Chillicothe	Livingston	779	36	22.4	− 7.5	57	7	− 8	19†	39	2.41§	+0.99	0.95	1	12.0§	7	16	1	14	nw.	Wm. J. Olenhouse
Clifton Hill	Randolph	731	46	24.4	− 6.6	57	7	− 6	19†	36	2.03§	+0.31	0.73	1	11.5§	8	7	8	16	w.	Dr. A J. Bradsher
Columbia	Boone	740	55	26.4	− 7.6	62	8	− 3	19	55	1.44	−0.42	0.51	17–18	11.4	10	8	9	14	w.	U. S. Weather Bureau
Conception	Nodaway	1,108	56	22.1	− 7.1	59	7	−14	19	61	1.71	+0.83	0.60	24	10.5§	10	8	15	8	nw.	Fr. Adelhelm Hess
Edgerton	Platte	856	25	24.8	− 5.6	61	7	−10	19	42	1.26§	+0.14	....	..	10.1§	7	17	0	14	nw.	Paul C. Handley
Elsberry	Lincoln	449	14	24.8	− 9.6	65	8	−12	20	14	1.67§	−0.54	0.55§	17–18	10.0	8	4	16	11	nw.	Soil Conservation Service
Fayette	Howard	760	65	24.8	− 6.3	58	7†	− 7	19	62	1.97	+0.31	0.54	1	11.0	8	11	4	16	n.	Irvin E. Schnell
Fulton	Callaway	818	57	25.0	− 8.5	63	8	− 4	19	53	1.29§	−0.72	0.45	17–18	15.0	7	17	6	8	w.	Frank E. Hillgartner
Grant City	Worth	1,134	41	22.1	− 5 9	58	7	−12	19	53	2.20§	+1.14	0.74	1	12.6§	12	11	5	15	n.	J. Homer Korn
Hannibal	Marion	759	53	23.2	− 8.3	58	8	− 2	19	61	1.67	+0.13	0.50	1	10.2	11	6	10	15	w.	Hannibal Water Dept.
Kansas City Airport	Jackson	741	56	25.8	− 6.7	60	7	− 4	19	56	1.42	+0.22	0.69	24	14.8	9	7	5	19	nw.	U. S. Weather Bureau
Kansas City Univ.	Jackson	908	7	26.8	......	61	7	− 4	19	7	1.54	......	0.52	24	12.2	10	7	10	14	w	University of Kansas City
Kidder	Caldwell	1,020	53	22.0	− 7.2	58	7	−15	19	57	1.86§	+0.59	0.73	24	9.0	8	11	4	16	n.	Mrs. Geraldine Terry
Kirksville	Adair	969	56	22.4	− 7.2	57	7	− 4	19	63	3.32§	+1.56	1.17	1	11.5§	9	15	3	13	n.	Dr. Willis J. Bray
Knoxville	Ray	960	0	23 4	......	57	7	− 8	19	1	1.91	......	0.91	1	6.1	8	7	4	20	w.	C. C. A. Station
Lawson	Ray	1,070	7	24.5	......	58	7	−10	19	7	2.29	......	0.72	17–18	13.7	9	11	8	12	nw.	Elmer E. Lamb
Louisiana	Pike	469	51	25.6	− 6.2	62	8	− 6	21	64	1.69§	−0.21	0.60	24	13.5§	10	10	8	13	n.	Stark Bro's Nurseries
Macon	Macon	875	46	22.0	− 8.1	58	7	− 6	19†	52	2.20	+0.56	0.71	1	11.0	10	6	5	20	nw.	John W. Atwell
Maryville	Nodaway	1,169	55	21.6	− 5.2	58	7	−14	19	51	1.74	+0.66	0.62	24–25	12.0	9	10	3	18	nw.	R. B. Montomery
Memphis	Scotland	787	6	20.6	......	59	7	− 5	20	15	3 57§	+2.29	1.30	1	10.7	8	11	3	17	nw.	John W. Alexander
Mexico	Audrain	800	56	23.1	− 8.7	56	7	− 5	19†	67	1.60§	−0.31	0.47	24	10.5	6	10	4	17	w.	Darrence W. Stuart
Moberly .....3½ mi. NE	Randolph	860	8	22.4	......	57	7	− 6	19	8	1.82§	......	....	..	11.0§	9	25	4	2	nw.	F. W. Bell
New Florence. 1 mi SE	Montgomery	885	2	25.0	......	62	8	− 2	19	3	0.89	......	0.38	23–24	7.1	8	7	11	13	w.	U. S. Weather Bureau
Oregon	Holt	1,048	89	23.4	− 5.3	59	7	−11	19	89	1.83	+0.79	....	..	11.4§	7	15	7	9	nw.	James M. Curry
St. Charles	St. Charles	520	57	27.3	− 7.6	66	8	0	19	67	1.64§	−0.15	*0.60*	23–24	8.0§	8	11	9	11	n.	Martin L. Comann
St. Joseph	Buchanan	957	35	24.1	− 5.5	60	7	− 7	19	73	1.40	+0.11	0.65	24	10.5	8	9	8	14	nw.	U. S Weather Bureau
Saverton, Lock No. 22.	Ralls	472	7	25.4	......	60	8	− 2	21	7	1.62	......	0.40	1	7.0§	8	13	3	15	nw.	Lockmaster
Shelbina	Shelby	779	4	22.6	......	58	7	−10	19	52	2.50	+0.96	0.70	1	12.7	10	14	3	14	nw	Guyman Hatcher
Steffenville	Lewis	650	47	22.8	− 7.8	56	7	− 6	17	52	2.12	+0.43	0.72	1	11.2§	11	10	8	13	w.	Mrs. Fannie V. Gross
Tarkio	Atchison	916	42	19.8	− 6.6	59	7	−20	19	51	1.04	+0.08	0.39	24	14.5	7	7	8	16	nw.	C. A. A. Station
Trenton	Grundy	822	49	24.2	− 5.4	58	7	− 8	19	50	2.31	+0.90	0.52	1	11.0	10	4	11	16	n.	W. H. Estes
Unionville	Putnam	1,062	52	20.2	− 7.4	57	8	− 5	15†	52	2.31§	+0.60	0.58	30–1	11.0	10	8	14	9	nw.	Mrs. Dora A. Wilson
Vandalia	Audrain	766	1	....	......	..	..	..	..	6	*1.32*	......	....	..	11.0§	9	..	..	..	nw.	August J. Little
Warrenton	Warren	816	63	26.9	− 5.5	65	8	− 2	19	55	1.44§	−0.64	0.63	23–24	12.6§	9	12	10	9	w.	W. T. Zimmerman
Keokuk, Iowa	Lee, Ia.	574	73	23.0	− 6.6	57	7	− 1	15	73	2.42	+0.97	0.76	23–24	6.8	12	7	6	18	sw.	U. S. Weather Bureau
Division means	**and extremes**	.....	..	**23.5**	**− 7.0**	**66**	**8**	**−20**	**19**	..	**1.87**	**+0.29**	**1.75**	**1**	10.9	9	**11**	6	14	**nw.**	
Southwestern Division																					
Anderson ...1½ mi SW	McDonald	1,000	41	30.4	− 7.1	66	7	−10	20	46	0.63§	−1.72	0.25	17†	4.0	4	11	3	17	ne.	Samuel G. Chamberlain
Appleton City	St. Clair	813	50	27.8	− 6.8	60	7	− 7	16†	53	0.97	−0.62	0 40	12–13	6.0	6	11	2	18	ne.	Rolla Brown
Bolivar	Polk	1,071	42	30.4	− 5.2	64	7	− 7	19	50	0.78	−1.56	0.26	23–24	6.1	5	12	5	14	sw.	Southwest Baptist College
Boonville	Cooper	650	7	23.8	......	59	7	− 6	20	68	2.17§	+0.47	0.60	24	10.0	9	6	8	17	ne.	Boonville Water Dept.
Carthage	Jasper	962	11	31.9	......	65	1	− 5	19	21	0.85	......	0.31	17–18	*7.0*	6	8	13	10	sw.	Carthage W. and E. Plant
Clinton	Henry	786	52	27.2	− 7.5	63	7	− 6	19	58	1.02	−0.85	0.45	23–24	6 6	5	13	7	11	n.	U. S. Weather Bureau
Eldon	Miller	934	50	29.2	− 5.1	62	8	− 4	19	46	1.05	−0.71	0.33	18†	6.8§	7	9	8	14	nw.	Ira M. Wilson
Fort Leonard Wood	Pulaski	1,107	4	29.1	......	66	8	− 1	19†	4	0.50	......	0.20	18–19	3.0§	4	5	9	17	nw.	U. S. Army Medical Corps
Harrisonville	Cass	904	67	24.0	− 7.3	60	7	−10	19†	70	1.29	−0.16	0.42	24	9.3	10	10	5	16	nw.	Jeffrey B. Patterson
Jefferson City	Cole	557	55	27.2	− 5.7	63	8	− 5	19	63	1.24§	−0.70	*0.65*	18	12.1	8	11	14	6	......	K. W. O. S. Radio Farm
Joplin	Jasper	1,008	23	32 4	− 6.8	61	7	− 3	19	40	0.66	−1.23	0 30	17	*7 0*	5	14	5	12	nw.	Empire Dist. Electric Co.
Lakeside	Miller	595	14	29 4	− 7.9	63	8	4	19†	14	0.75	−1.55	0.22	24	11.0	9	5	8	18	nw.	W. S. Frame
Lamar	Barton	980	57	29.1	− 6.1	62	7	− 7	19†	64	0.79	−1.09	0.22	17	4.0	4	17	4	10	nw.	Mrs. Marie Mann
Lebanon	Laclede	1,265	57	30.2	− 4.6	63	8	− 4	19	58	0.84	−1.44	0.26	18–19	7.5	8	8	10	13	nw.	Mrs. Rosa E. Montelius
Lexington	Lafayette	688	60	26.0	− 6.0	55	1	− 3	24	61	2.20§	+0.61	*0.60*	25	16.0	6	12	9	10	n.	Tilton Davis
Lockwood	Dade	1,078	39	32.0	− 4.1	63	7	− 6	19	49	0.63	−1.51	0.28	12–13	5.0	4	14	7	10	nw.	Hubert A. Nieman
Marshall	Saline	779	58	27.6	− 4.3	62	7	− 7	19	55	1.49	−0.26	0.40	17–18	15.3	7	11	7	13	nw.	Thomas A. Reid
Mountain Grove	Wright	1,463	44	31.4	− 3.3	66	8	− 1	19	48	1.10	−1.31	0.49	23–24	5.0§	6	12	5	14	nw	Mo. Fruit Exp. Station
Mount Vernon	Lawrence	1,174	33	30.6	− 4.9	62	7†	− 7	19	45	0.93	−1.61	0.34	24–25	*4.0*	7	7	14	10	......	James C. Williamson
Neosho	Newton	1,011	58	33.7	− 3.4	63	1†	− 8	19	62	0.77	−1.51	0.23	17–18	6.5	8	11	9	11	nw.	U. S Fisheries Station
Nevada	Vernon	862	52	30 0	− 5.3	60	7	− 8	19	53	0.81	−0.94	0.25	24–25	7.2	7	10	4	17	nw.	Henry Kraft
Ozark Beach	Taney	700	5	32 6	......	70	8	1	19†	20	0.72	−2.03	0.30	12–13	1.9§	6	1	15	15	nw.	Empire District Elec. Co.
Sedalia	Pettis	910	32	27.2	− 6.7	60	7	− 9	19	34	0.93	−0.35	0.34	24	8.7	6	11	3	17	nw.	Dr. J. E. Cannaday
Seligman	Barry	1,542	44	33.1	− 4.2	64	8	− 5	19	42	1.16	−1.04	0.60	24	3.5	4	15ᵃ	6ᵃ	9ᵃ	sw.	Floyd E. Fawver
Seymour 3½ miles NE	Webster	1,642	39	28.8	− 6.6	64	8	− 3	19	39	1.44	−0.82	0.94	24	3.0	4	14ᵃ	0ᵃ	16ᵃ	nw.	A. L. Hailey
Springfield. 4 mi. NW	Greene	1,301	57	29.5	− 6.0	62	8	− 5	19	57	0.51	−1.80	0.21	24	3.1	6	6	6	19	nw.	U. S. Weather Bureau
Sweet Springs	Saline	700	4	26.2	......	60	6†	− 9	16†	4	1.16	......	0.30	24	11.3§	9	1	14	16	nw.	H F. Nelson
Warrensburg	Johnson	878	58	26.6	− 6.8	59ᵃ	7	− 6	19	65	1.14	−0.40	0.50	23–24	9.1§	6	13	4	14	nw.	Central Teachers College
Warsaw	Benton	687	44	29.8	− 5.9	63	7	− 6	19	50	0.72	−1.40	0.30	24	6.5§	4	12	3	16	nw.	Dora B. Johnson
Wasola	Ozark	1,294	4	32.8	......	67	8	2	19	5	1.23	......	0.58	24	6.1	6	12	11	8	w.	A. W. Pinckney
Division means	**and extremes**	.....	..	**29.3**	**− 5.7**	**70**	**8**	**−10**	**19†**	..	**0.96**	**−1.09**	**0.94**	**24**	**7.1**	6	**10**	7	**14**	**nw.**	
Southeastern Division																					
Advance.... ¼ mile W	Stoddard	354	8	30.2	......	63	8	− 6	20	8	1.34	......	0.50	23–24	4.5	8	7	10	14	nw.	U. S. Weather Bureau
Arcadia	Iron	926	64	29.3	− 5.0	65	8	2	20	67	1.15	−1.70	0.62	24	3.4	5	12	3	16	e.	Arcadia College
Birch Tree... ½ mile E	Shannon	1,000	50	30.6ᵃ	− 5.8	66ᵃ	8	− 7ᵃ	20	51	1.00	−1 75	0.28	18	4.5	6	9ᵇ	7ᵇ	13ᵇ	nw.	R. C. Moger
Black.......9 miles NW	Iron	1,000	52	29.2ᵃ	− 5.6	67ᵃ	8	− 7ᵃ	20	52	0.86	−1.59	0.44	24	*3.1*	7	11ᵃ	7ᵃ	12ᵃ	nw.	Claude Volner
Campbell	Dunklin	311	19	32.6ᵈ	− 5.8	64ᵈ	8	0ᵈ	20	19	2.39	−1.56	0.72	23–24	8.0	9	12ᶜ	5ᶜ	11ᶜ	ne.	Mrs. Ruth Christian
Cape Girardeau	Cape Girardeau	347	0	32.7	......	61	8	5	19†	45	1.59	−2.08	0 33	18	5.8§	9	8	11	12	n.	Homer R. Bolen
Caruthersville	Pemiscot	265	49	36.1	− 4.8	65	8	5	20	53	2.52	−2.02	0.62	23–24	4.5	10	10	7	14	nw.	Victor T. Malloure
Crystal City	Jefferson	420	11	30.2	− 4 2	68	8	− 2	20	11	1.59	−0.95	....	..	7.2	8	9	4	18	nw.	Richard K. Ragland
Doniphan	Ripley	344	41	32.8	− 5.0	69	8	− 8	20	41	1.87	−1.85	0.49	12–13†	5.4	6	15	3	13	w.	Boyce Lackey
Farmington	St. Francois	896	34	30.8	− 5.9	65	8	1	19	48	0.95	−1.85	0.55	23–24	4.8	7	12	3	16	nw.	F. M. Karsch
Greenville	Wayne	460	36	32.4	− 3.8	67	8	− 4	20	38	1.17	−2.19	0.30	23–24	4.0	6	8	8	15	n.	Beuford Shoemake
Jackson	Cape Girardeau	428	54	29.6	− 7.0	62	8	4	19	55	2.31§	−1.12	0.50	24	5.8	8	9	5	17	n.	Dauny Siebert
Koshkonong	Oregon	958	44	33.6	− 4.8	66	8	0	19	45	1.18	−2.30	0.38	24	4.0	5	10	8	13	nw.	Mrs. Genevieve T. Smith
Licking...... 4 miles N	Texas	1,170	8	30.4	......	65	8	0	16	8	0.53§	−1.85	0.15	18	*4.5*	7	10	8	13	n.	U. S. Forestry Service

Continued on next page

Climatological Data for December 1945—Continued from preceding page

Stations	Counties	Elevation, feet	Temperature, in degrees, Fahr.							Precipitation, in inches						Number of days				Prevailing direction of wind	Observers
			Length of record, years	Mean	Departure from the normal	Highest	Date	Lowest	Date	Length of record, years	Total	Departure from the normal	Greatest in 24 hours [4]	Date	Total snowfall, unmelted	With precip., .01 inch or more	Clear	Partly cloudy	Cloudy		
Southeastern Division—	*Concluded*																				
Malden....4 miles NNW	Dunklin	292	2	32.0	......	64	8	− 3	20	2	1.81	......	0.46	23–24	4.9	9	6	5	20	nw.	U. S. Weather Bureau
Marble Hill	Bollinger	532	50	31.0	− 5.7	65	8	− 2	20	52	1.73	−1.94	0.70	23–24	3.5	7	11	5	15	n.	R. A. DeWitt
Poplar Bluff	Butler	339	40	32.3	− 5.5	67	8	2	19†	41	1.50§	−2.49	0.45	18	7.0	6	15	11	5	n.	Joe Roehm
Rolla	Phelps	1,202	45	28.3	− 6.3	64	8	− 1	19	61	0.85	−1.33	0.28	12–13	7.5	7	7	13	11	nw.	Rolla School of Mines
St. Louis:																					
City Office		465	108	28.6	− 6.3	67	8	5	19	108	1.68§	−0.53	0.57	23–24	8.3	11	6	8	17	nw.	**Section Center**
St. Louis Airport	St. Louis	556	8	27.6	− 5.8	66	8	2	19	14	1.72	−0.01	0.50	18	10.2	11	8	4	19	nw.	U. S. Weather Bureau
St. Louis University	St. Louis City	578	33	28.5	− 6.6	67	8	4	19	33	2.46	+0.02	0.79	24	10.6	11	10	5	16	se.	St. Louis University
Salem	Dent	1,206	41	30.8	− 4.6	67	8	0	19	44	0.72	−1.82	0.28	12–13	2.8	6	10	6	15	w.	E. E. Martin
Sikeston	Scott	318	38	31.6	− 6.1	65	8	3	20	48	2.05	−1.89	0.52	23	5.6	8	13	7	11	nw.	Mrs. Lucy W. Humphreys
Union ....1½ mi. SE	Franklin	520	7	27.9	......	65	8	0	16†	28	1.39§	−0.82	*0.40*	17–18	10.5	8	14	2	15	nw.	Cornelius Sieges
Vichy ....2 mi. NW	Maries	1,125	9	27.3	......	63	8	− 1	19	10	0.77	......	0.20	12–13	5.4	9	4	4	23	nw	Civil Aeronautics Adm.
Wappapello Dam	Butler	475	6	31.8	......	66	8	4[a]	19†	6	1.30	......	0.35	18	5.0§	7	13	2	16	nw.	U. S. Engineer Office
Weingarten	St. Genevieve	833	4	29.6	......	66	8	2	19	5	1.25§	......	0.85	24	4.6§	5	9	9	13	n.	William J. Miller
West Plains	Howell	1,005	8	30.1	.....	66	8	− 3	19	8	1.31	.....	0.59	23–24	4.0	8	8	6	17	nw.	U. S. Weather Bureau
Willow Springs 500 ft E	Howell	1,238	4	30.9	......	66	8	− 2	20	38	0.95	−1.85	0.48	24	3.4§	4	14	6	11	n.	Allen Frazee
Cairo, Ill.	Alexander, Ill.	314	73	33.4	− 4.4	63	8	7	20	74	1.82	−1.58	0.61	23–24	4.5	9	8	9	14	sw.	U. S. Weather Bureau
Division means	**and extremes**	.....	..	**30.7**	**− 5.4**	**69**	**8**	**− 8**	**20**	..	**1.34**	**−1.55**	**0.93**	**24**	**5.6**	**8**	**10**	**7**	**14**	**nw.**	
State means	**and extremes**	.....	..	**27.8**	**− 6.3**	**70**	**8**	**−20**	**19**	..	**1.39**	**−0.78**	**1.75**	**1**	**7.9**	**8**	**10**	**7**	**14**	**nw.**	

The departures from normal temperature are computed from the averages of the entire period for stations having 10 or more years of record. Departures of precipitation for stations with 15 years or more of record are computed from a normal or "standard mean", adjusted to a uniform 35-year period; for stations of 10 to 14 years the means for the period of record are used. The normal may be found by adding the departures when minus (−) or subtracting when plus (+). Figures and letters following stations indicate distance in miles and direction of station from the city Post Office, unless otherwise indicated. T. Trace or 0.005 inch or less. [a], [b], [c], etc., number of days missing; for example, [b], indicates two days missing. Italics data interpolated. § Partly interpolated. † And other dates. ‡ Received too late to be included in means and summaries. [4] Best available used for stations not equipped with recorders. Post office address of: Altona is Adrian; Crane Mountain is Arcadia; East End is Goodland; Eastwood Lookout is Van Buren; Ellsinore Lookout is Mill Spring; Hailey is Cassville; High Lookout is Birch Tree; Macedonia Lookout is Doniphan; Perry is Center; Pilot Knob is Ironton; Wilderness Lookout is Lampe.

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PRECIPITATION

The average for the State, 216 stations reporting, was 1.39 inches, or 0.78 inch less than the 58-year December average. The greatest monthly amount was 3.57 inches at Memphis, and the least was 0.32 inch at Bunker. The greatest amount reported in 24 hours was 1.75 inches, at King City, on the 1st. The average number of days with 0.01 inch, or more, was 8.

Snowfall averaged 7.9 inches, or 4.3 inches more than the 56-year December average. The greatest monthly snowfall was 16.0 inches at Lexington, and the least was 1.9 inches at Ozark Beach.

MISCELLANEOUS PHENOMENA

Eclipse.—Lunar, 18th.

Fogs.—Heavy, 1st, 3d, 6th, 9th, 13th, 14th, 17th, 18th, 21st, 23d, 24th, 25th, 26th, 27th, 28th, 29th, 30th.

Glaze.—12th, 13th, 23d, 24th, 25th, 27th, 30th, 31st.

Hail.—Light, on 1st at University of Kansas City, Lawson, and Butler.

Sleet.—1st, 3d, 10th, 12th, 13th, 19th, 23d, 24th, 25th, 27th, 30th.

Windstorms.—No damaging winds reported.

ERRATA

July 1945, page 51: Greatest 24-hour precipitation and date at Cairo, Ill., should be 0.84 on June 30–July 1.

August 1945, page 62: Monthly evaporation at St. Louis (Washington University) should be 5.437.

September 1945, page 67: Mean temperature and departure at St. Louis (City Office) should be 70.0 and − 0.5, respectively. Page 71: Minimum temperature on 26th at St. Louis should be 63; mean minimum should be 62.3.

November 1945, page 81: Total degree-days at Springfield should be 546.

Daily Precipitation for December 1945

Stations	Drainage basins	Day of month																															Total
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Northern Division																																	
Albany	Grand	.85	T.	T.	....	....	....	....	....	....	....	....	.20	....	....	....	....	.10	.15	.50	....	....	....	T.	.50	....	....	....	....	.02	....	.05	2.37
Amity	do	.09	....	.02	....	....	....	....	....	T.	....	....	.10	.05	....	T.	....	.07	.34	.04	....	....	....	T.	.63	.12	....	T.	....	.01	....	.09	1.56
Auxvasse	Missouri	.04	....	.01	....	....	....	....	....	....	....	....	.10	.20	....	....	....	.02	.54	.03	....	....	....	.02	.25	T.	....	....	....	.03	T.	.02	1.26
Bethany	Grand	.86	T.	T.	....	....	....	....	....	....	....	....	.07	.04	....	....	....	.01	.40	....	....	....	....	T.	.70	.18	....	.05	....	T.	....	T.	§2.31
Bowling Green²	Mississippi	....	.17	....	....	....	....	....	....	....	....	....	....	.20	.12	....	....	....	.21	.09	....	....	....	....	*	.48	....	....	....	....	*	.09	§1.36
Brookfield²	Grand	*	.52	T.	....	....	....	....	....	....	....	....	.10	.15	....	....	....	....	.25	.35	....	....	....	....	....	.42	....	....	....	....	T.	....	§1.79
Browning 3 mi. NE	do	.32	T.	.06	....	....	....	....	....	T.	....	....	.17	.07	....	T.	....	.05	.65	.10	....	....	....	.02	.63	.07	....	.01	....	.10	.03	.01	2.29
Brunswick²	do	.01	.28	....	....	....	....	....	....	....	....	....	....	.15	.05	....	....	....	.16	.18	....	....	....	....	T.	.53	....	....	....	....	....	T.	1.36
Canton, Lock No. 20²	Mississippi	....	.51	.20	....	....	....	....	....	....	T.	....	....	.25	.08	....	....	....	.08	.25	....	....	....	....	.21	.48	T.	....	....	....	.45	T.	2.51
Centralia²	do	....	.11	....	....	....	....	....	....	....	....	....	....	*	.25	....	....	....	.39	.23	....	....	....	....	.06	.07	....	....	....	....	.04	....	§1.15
Chillicothe² (A)	Grand	.04	.91	....	....	....	....	....	....	....	....	....	....	.22	....	....	....	....	.20	.33	....	....	....	....	.11	.60	....	....	....	....	....	....	§2.41
Chillicothe² (B)	do	.06	.70	T.	....	....	....	....	....	....	....	....	....	.13	.05	....	....	....	.17	.34	....	....	....	....	.04	.65	T.	....	....	....	T.	....	2.14
Clifton Hill	Chariton	.73	T.	....	....	....	....	....	....	....	....	....	*	.30	....	....	....	....	.30	.25	....	....	....	T.	*	.42	T.	....	....	.03	....	....	§2.03
Columbia¹, ⁵	Missouri	.22	T.	T.	....	....	....	....	....	....	T.	....	.10	.19	....	T.	....	.13	.47	.02	....	....	....	T.	.26	.01	T.	....	....	.02	T.	.02	1.44
Columbia 9 mi. WNW	do	.25	....	T.	....	....	....	....	....	....	....	....	.07	.15	....	....	....	T.	.24	.03	....	....	....	T.	.34	T.	....	....	....	T.	T.	T.	1.08
Conception	do	.29	T	.05	....	....	....	....	....	T.	....	....	.07	....	....	....	....	.13	.31	.03	....	....	....	T.	.60	.12	....	....	....	.06	....	.05	1.71
Edgerton	do	.06	....	....	....	....	....	....	....	....	....	....	.12	....	....	....	....	.14	.40	....	....	....	....	*	.51	T.	....	....	....	....	....	.03	§1.26
Edina²	Mississippi	....	.60	....	....	....	....	....	....	....	....	....	....	.20	....	....	....	....	.18	.28	....	....	....	....	.05	.84	....	....	....	....	.30	T.	2.45
Elsberry S. C. S.²	do	....	.05	T.	....	....	....	....	....	....	....	....	....	.21	.04	....	....	....	25	.30	....	....	....	....	.38	.37	T.	....	T.	....	.07	T.	§1.67
Fayette	Missouri	.54	....	T.	....	....	....	....	....	....	T.	....	.10	.20	....	....	....	T.	.46	....	....	....	....	T.	.50	.03	T.	....	....	.04	T.	.10	1.97
Fulton²	do	....	.02	....	....	....	....	....	....	....	....	....	....	.20	.02	....	....	....	.45	.30	....	....	....	....	....	.28	T.	....	....	....	.02	....	§1.29
Gallatin²	Grand	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Grant City	do	.74	T.	.18	....	....	....	....	....	....	....	....	.13	.04	T.	....	....	.08	.20	.02	....	....	....	.11	.48	.12	....	T.	....	.07	T.	.03	§2.20
Hannibal¹ (A)	Mississippi	.50	T.	....	....	....	....	....	....	....	....	....	.15	.12	....	....	....	.05	.12	.02	....	....	....	.05	.44	.03	....	....	....	.17	T.	.02	1.67
Hannibal² (B)	do	....	.40	.04	....	....	....	....	....	....	....	....	....	.28	.07	....	....	....	.17	.37	....	....	....	....	.06	.42	.04	....	....	....	.20	....	2.05
Hermann²	Missouri	....	T.	....	....	....	....	....	....	....	....	....	....	.11	.12	....	....	....	.25	.18	....	....	....	....	.23	....	....	....	....	....	....	....	§0.89
Kahoka²	Mississippi	....	....	.45	....	....	....	....	....	....	....	....	....	.18	....	....	....	....	.05	.12	....	....	....	*	*	.65	T.	....	....	....	.10	T.	1.55
Kansas City Airport¹, ⁵	Missouri	.06	....	.02	T.	....	....	....	....	....	....	....	.22	.09	T.	T.	....	.20	.12	....	....	....	....	.01	.69	T.	....	....	....	T.	....	.01	1.42
Kansas City University	do	.16	....	.02	T.	....	....	....	....	....	....	....	.34	.02	....	....	....	.07	.26	....	....	....	....	.03	.52	.09	....	....	....	....	....	.03	1.54
Kidder²	Grand	.60	.08	T.	....	....	....	....	....	....	....	....	....	.11	....	....	....	....	.17	.05	....	....	....	....	T.	.73	.05	....	....	....	T.	.07	§1.86
King City	Missouri	1.75	....	....	....	....	....	....	....	....	....	....	.18	.08	....	....	....	.25	.08	....	....	....	....	*	.96	.03	....	....	....	....	....	.07	3.40
Kirksville	Mississippi	1.17	T.	.04	....	....	....	....	....	T.	....	....	.14	.08	....	....	....	T.	.30	.15	....	....	....	T.	.64	.50	....	T.	....	.30	T.	T.	§3.32
Knoxville³	Missouri	.91	....	T.	....	....	....	....	....	T.	T.	....	.02	.08	T.	T.	....	.10	.03	....	....	....	....	.02	.71	T.	....	....	....	....	....	.04	1.91
LaBelle²	Mississippi	....	.95	....	....	....	....	....	....	....	....	....	....	.28	....	....	....	....	*	.33	....	....	....	....	....	.93	....	....	....	....	.32	....	§2.81
Lawson	Missouri	.52	....	T.	....	....	....	....	....	T.	....	....	.25	.04	....	T.	....	.03	.72	T.	....	....	....	.18	.41	.12	T.	....	....	....	....	.02	2.29
Linneus	Grand	.75	....	*	....	....	....	....	....	....	....	....	*	*	....	....	....	*	*	*	....	....	....	*	*	*	....	*	....	*	*	1.44	2.19
Louisiana (A)	Mississippi	.15	....	.02	....	....	....	....	....	....	....	....	.05	.23	....	....	....	....	.25	.25	....	....	....	T.	.60	.05	....	....	....	.04	....	.05	§1.69
Louisiana² (B)	do	....	.18	T.	....	....	....	....	....	....	....	....	....	.18	.12	....	....	....	.14	.27	....	....	....	....	.19	.41	.03	....	....	....	.03	....	1.55
Lucerne²	Grand	....	1.12	T.	....	....	....	....	....	....	....	....	....	.17	....	....	....	....	.20	.19	....	....	....	....	*	.98	T.	....	.32	....	....	....	§2.98
Macon²	Chariton	T.	.71	.01	....	....	....	....	....	....	....	....	....	.21	.08	....	....	....	.10	.31	....	....	....	....	.05	.53	.07	....	....	....	.13	....	2.20
Madison²	Mississippi	*	.65	....	....	....	....	....	....	....	....	....	....	.13	.04	....	....	....	.25	.22	....	....	....	....	*	.60	....	....	....	....	....	....	§1.89
Martinsburg²	Missouri	....	.09	T.	T.	....	....	....	....	....	....	....	....	.13	.11	....	....	....	.25	.22	....	....	....	T.	.12	.34	T.	....	....	....	.03	T.	1.29
Maryville	do	.27	....	.05	....	....	....	....	....	T.	....	....	.12	T.	....	....	....	.16	.36	.04	....	....	....	T.	.42	.20	....	....	....	....	....	.12	1.74
Memphis²	Mississippi	....	1.30	....	....	....	....	....	....	....	T.	....	....	.18	....	....	....	....	.05	.20	....	....	....	....	.25	1.04	T.	.08	....	....	.47	....	§3.57
Mexico²	do	....	.33	....	....	....	....	....	....	....	....	....	....	.20	.05	....	....	....	.25	.30	....	....	....	....	....	.47	T.	....	....	....	....	....	§1.60
Milan²	Grand	....	.39	....	....	....	....	....	....	....	....	....	....	.15	....	....	....	....	.20	.30	....	....	....	....	.10	.80	.10	T.	....	....	.18	....	2.22
Moberly² 3½ mi. NE	Mississippi	.13	.36	....	....	....	....	....	....	....	....	....	*	.25	....	....	....	....	.30	.18	....	....	....	....	*	.55	....	....	....	....	.05	....	§1.82
Monroe City	do	.48	.03	....	....	....	....	....	....	....	....	....	.17	.11	....	....	....	.15	.50	....	....	....	....	....	.32	.11	....	....	....	.13	....	....	§2.00
New Florence³, ⁵ 1 mi SE	Missouri	.06	T.	T.	....	....	....	....	....	....	T.	....	.08	.08	....	T.	....	T.	.27	T.	....	....	....	.05	.33	.01	....	T	....	.01	T.	T.	0.89
Oregon	do	.16	....	.02	....	....	....	....	....	....	....	....	.18	....	....	....	....	*	.76	T.	....	....	....	T.	*	.71	....	....	....	....	....	T.	1.83
Palmyra	Mississippi	.50	....	....	....	....	....	....	....	....	....	....	.15	.15	....	....	....	T.	.18	....	....	....	....	*	.45	.04	....	....	....	*	*	.15	§1.62
Paris²	do	....	.42	....	....	....	....	....	....	....	....	....	....	.20	.12	....	....	....	.16	.38	....	....	....	....	.06	.39	T.	....	....	....	.01	....	§1.74
Perry 1 mile E	do	.30	....	....	....	....	....	....	....	....	....	....	.05	.35	....	....	....	.03	.15	.18	....	....	....	.05	.25	.10	....	....	....	....	....	.03	§1.49
Philadelphia	do	.90	....	T.	....	....	....	....	....	....	....	....	T.	.25	....	....	....	....	.20	....	....	....	....	....	.20	....	....	.01	....	.08	T.	.02	§1.66
St. Charles² (A)	Missouri	....	.08	....	....	....	....	....	....	....	....	....	....	.15	.08	....	....	....	*	.45	....	....	....	....	.60	.27	....	.01	....	....	....	....	§1.64
St. Charles² (B)	do	....	....	T.	T.	....	....	....	....	....	....	....	....	.12	.11	....	....	....	.17	.31	....	....	....	....	.64	.27	T	....	....	....	....	....	1.62
St. Joseph¹, ⁵	do	.15	.01	.02	....	....	....	....	....	....	....	....	.15	T.	T	....	....	.14	.27	....	....	....	....	T.	.65	T.	....	T.	....	....	....	.01	1.40
Saverton, Lock No. 22²	Mississippi	....	.40	T.	T	....	....	....	....	....	....	....	....	.09	T.	....	....	....	.18	.18	....	....	....	....	.22	.38	T.	.01	....	....	.16	T.	1.62
Shelbina	do	.70	....	T.	....	....	....	....	....	....	....	....	*	.46	....	....	....	T.	*	.48	....	....	....	T.	.58	.11	....	....	....	.06	.09	.02	2.50
Shelbyville²	do	....	.68	....	....	....	....	....	....	....	....	....	....	.25	....	....	....	....	....	.20	....	....	....	....	....	.64	....	....	....	....	.28	....	2.05
Steffenville	do	.72	....	T.	....	....	....	....	....	....	....	....	.06	.19	....	....	....	T.	.14	.07	....	....	....	.02	.68	.03	....	T.	....	.14	.06	.01	2.12
Tarkio³	Missouri	.17	T.	T.	....	....	....	....	....	....	....	....	.08	T.	T.	....	....	.09	.11	....	....	....	....	T.	.29	.21	....	T	....	T.	....	.09	1.04
Trenton²	Grand	.52	.28	T.	.03	....	....	....	....	....	....	....	....	.21	....	....	....	....	.12	.21	....	....	.46	.39	T.	T.	....	T.	....	.02	.04	T.	2.31
Troy²	Mississippi	....	.05	T.	T.	....	....	....	....	....	....	....	....	.13	.04	....	....	....	.30	.12	....	....	....	....	.28	.27	....	....	....	....	.06	....	1.25
Unionville²	Chariton	.20	.38	....	....	....	....	....	....	....	....	....	....	.15	....	....	....	....	.35	.12	....	....	....	....	.12	.52	.10	....	.07	....	.30	....	§2.31
Vandalia	Mississippi	.22	....	....	....	....	....	....	....	....	....	....	*	.35	....	....	....	....	*	.38	....	....	....	*	*	.34	....	....	....	....	....	.03	1.32
Warrenton	do	.07	T.	01	T	....	....	....	....	....	....	....	.04	.17	....	....	....	....	.36	.06	....	....	....	T	.63	T.	....	....	....	.04	T.	.06	§1.44
Keokuk, Iowa¹	do	.67	.01	T.	....	....	....	....	....	T.	....	....	.20	.10	....	....	....	T.	.21	.03	....	....	.01	.08	.68	T.	....	T.	....	.34	.08	.01	2.42
Southwestern Division																																	
Altona²	Osage	.12	....	T.	....	....	....	....	....	....	....	....	....	.27	....	....	....	....	.11	.18	....	....	....	....	T	.43	....	....	....	....	....	....	1.11
Anderson² 1½ mi. SW	Neosho	....	.05	....	T.	....	....	....	....	....	....	....	....	.08	T.	....	....	....	.25	....	....	....	....	25	T.	....	....	....	....	....	....	....	§0.63
Appleton City	Osage	.10	....	T.	....	....	....	....	....	....	....	....	*	.40	....	....	....	....	*	.12	....	....	....	T	.35	....	....	....	....	....	....	....	0.97
Ava Ranger Station²	White	....	T.	.01	.06	....	....	....	....	....	....	....	....	.10	.08	....	....	....	.31	T.	....	....	....	....	....	.26	....	....	T.	....	....	....	0.82
Bolivar	Osage	T.	T.	.02	....	....	....	....	....	....	....	....	.13	.17	....	....	....	....	.20	....	....	....	....	T.	.26	T	....	....	....	....	....	T.	0.78
Boonville² (A)	Missouri	....	.28	.01	....	....	....	....	....	....	....	....	....	.36	.10	....	....	....	.40	.10	....	....	....	*	.32	.60	....	....	....	....	....	....	§2.17
Boonville² (B)	do	....	.28	....	....	....	....	....	....	....	....	....	....	.18	.19	....	....	....	.22	.20	....	....	....	....	T	.49	....	....	....	....	....	....	1.56
Bradleyville²	White	....	....	....	.03	....	....	....	....	....	....	....	....	.18	....	....	....	....	.05	.09	....	....	....	....	....	.11	....	....	....	....	....	....	0.46
Buffalo²	Osage	....	.20	....	.11	....	....	....	....	....	....	....	....	.14	.16	....	....	....	.30	....	....	....	....	.04	....	.11	....	....	....	....	....	....	1.06
Butler²	do	*	.35	T.	....	....	....	....	....	....	....	....	....	.30	T.	....	....	....	.12	T.	....	....	....	*	.41	....	....	....	....	....	....	....	1.18
Caplinger Mills²	do	.04	....	....	T.	....	....	....	....	....	....	....	....	.24	T.	....	....	....	.12	.03	....	....	....	....	.03	.29	....	....	....	....	....	....	0.75
Carthage	Neosho	.04	....	....	....	....	....	....	....	....	....	....	.12	.15	....	....	....	.11	.20	....	....	....	....	....	.23	....	....	....	....	....	....	....	0.85
Cassville²	White	....	.17	....	T.	....	....	....	....	....	....	....	....	....	....	....	....	....	.22	....	....	....	....	....	.10	....	....	....	....	....	....	....	0.49
Clinton³	Osage	.15	....	T.	....	....	....	....	....	....	....	....	.14	.19	....	....	....	.02	.06	T	....	....	....	T.	.45	T.	....	....	....	....	....	T.	1.02
Concordia	Missouri	.12	....	T.	....	....	....	....	....	....	....	....	*	.30	....	....	....	.02	.20	.02	....	....	....	....	.54	T.	....	....	....	....	T.	.05	1.25
Crocker	Osage	.03	....	.05	....	....	....	....	T.	T.	....	....	.20	.11	....	....	....	....	....	.30	....	....	....	T.	.30	....	....	....	....	....	....	.05	1.04
Eldon	Missouri	.03	T.	T.	....	....	....	....	....	....	T.	....	.13	.18	....	....	....	....	.33	.02	....	....	....	T.	.33	....	....	....	....	T.	....	.03	1.05
Eldorado Springs	Osage	.05	....	T.	....	....	....	....	....	....	....	....	.12	.21	....	....	....	....	.17	....	....	....	....	T.	.17	.05	....	....	....	....	....	T	0.77
Elijah²	White	....	....	....	.11	....	....	....	....	....	....	....	....	.25	T.	....	....	....	.35	....	....	....	....	....	.10	.28	....	....	....	....	....	....	1.09
Forsyth²	do	....	....	....	.06	....	....	....	....	....	....	....	....	.19	.02	....	....	....	.15	.02	....	....	....	....	.01	.13	....	....	....	....	....	....	§0.58
Fort Leonard Wood²	Gasconade	....	....	....	.16	....	....	....	....	....	T.	....	....	.13	....	....	....	....	....	.20	....	....	....	....	.01	....	....	....	....	....	....	....	0.50
Galena²	White	....	.12	....	.07	....	....	....	....	....	....	....	....	.09	.03	....	....	....	.14	....	....	....	....	....	....	.17	....	....	....	....	....	....	0.62
Granby²	do	....	.06	....	T.	....	....	....	....	....	....	....	....	.10	....	....	....	....	.40	....	....	....	....	....	....	.10	....	....	....	....	....	....	§0.66
Hailey	do	*	.13	T.	....	....	....	....	....	....	....	....	....	.05	....	....	....	.11	T.	....	....	....	....	T.	.11	....	....	....	....	....	....	....	0.40
Harrisonville²	Osage	*	.26	*	.01	....	....	....	....	....	....	....	....	.26	.04	....	....	....	.16	.10	....	....	....	....	.04	.42	....	....	....	....	....	....	1.29
Jefferson City (A)	Missouri	.02	....	T.	....	....	....	....	....	....	....	T.	.06	.18	....	....	....	.10	.65	....	....	....	....	*	.22	....	....	....	....	....	....	.01	§1 24
Jefferson City² (B)	do	....	.02	....	T.	....	....	....	....	....	....	....	....	.15	.13	....	....	....	.60	.15	....	....	....	....	.02	.20	....	....	....	....	....	....	§1.27
Joplin¹	Neosho	.05	....	T.	....	....	....	....	....	....	....	....	.12	.15	....	....	....	.30	.04	....	....	....	....	T.	T.	....	....	....	....	....	....	....	0.66
Lakeside², ⁵	Osage	....	.02	T.	.02	....	....	....	....	....	....	T.	....	.15	.05	....	....	....	.17	.07	....	....	....	.01	.01	.22	T.	....	....	....	....	T	0.75

Continued on next page

Daily Precipitation for December 1945—Continued from preceding page

Stations	Drainage basins	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Total
Southwestern Division—	*Concluded*																																
Lamar[2]	Neosho		.18											.20					.22							.19							0.79
Lebanon	Osage	.09		.04									.06	.12						.26					.22	.01		T.				.04	0.84
Lexington[2]	Missouri		.40											.35	.20				.40	.25					*T.*	*.60*							§2.20
Lockwood	Osage	T.		T.									.10	.18				T.	.15					T.	.20								0.63
Mansfield[2]	White				.08										.34	.10		.20		T.					.11	.28							1.11
Marshall	Missouri	.15		*T.*									.15	.15				T.	.40	T.					.15		.39			T.	T.	.10	1.49
Marshfield[2]	White				.07									.06					.19	T.				T.	.01	.21							0.54
Mountain Grove[2]	Gasconade		T.		.18									.09	.14				.20						.03	.46							1.10
Mount Vernon[2]	Neosho		.05		.02									.10	.13				.27	.02					T.	.34							0.93
Neosho	do	.08		.04									.16	.10				.08	.23						.07			.01					0.77
Nevada	Osage	.05		.01									.12	.20				T.	.18	T				T.	.23	.02							0.81
Osceola[2]	do		.02											.20	.05				.12	.04					.07	.27							0.77
Ozark[2]	White				T.									.15					.16							.19							0.50
Ozark Beach[2]	do				.06									.28	.02				.16	.03								.17					0.72
Pierce City[2]	Neosho		.05		T.									.31					.26							.16							0.78
Pleasant Hill[2]	Osage	T.	.25	T.	.02									.26	.01				.25	.08					.01	.62							1.50
Roby	Gasconade	T.		.12	T.						T.		.10	.12		T.			.18	T					.31	T.		T			T.	.07	0.90
St. Thomas[2] 2¼ mi SW	Osage		*.02*											.30					*	.40					*.03*	*.18*							§0.93
Saunders Lookout[2]	White		.08		*.06*									.18	.06				.31	T.						.26							§0.95
Sedalia	Missouri	.08		*T.*									.10	.19					.20						.34						*T.*	.02	0.93
Seligman[2]	Neosho		.11											.05					.40						*T.*	.60		T.					1.16
Seymour[2] 3½ mi. NE	White				T.									.22				.28							.23	.71							1.44
Shell Knob[2] 3 mi. SE	do																																....
Siloam Sprgs Lookout[2]	do													.31					.30							.46							1.07
Springfield[1,5] 4 mi. NW	do	T.		.01									.12	.08		T.		.05	.04	T.			T.	T.	.21	T.	T.	T.				T.	0.51
Stover[2]	Missouri		*.02*											.62					.42						*.03*	*.19*							§1.28
Swan Tower Lookout[2]	White																																....
Sweet Springs	Missouri	.06		T.									.22	.18				.03	.25	.03					.30	.02		T.				.07	1.16
Tecumseh[2] ¼ mi. W	White																																....
Topaz[2]	do				.11									T.					.37					*T.*	*T.*	.40							0.88
Vanzant[2] 3¾ mi. SE	do				.14									.20					.26	T.					.13	.32							1.05
Warrensburg	Missouri	.15		T.									.06	.20				T.	.20	T.				T.	.50	T.	T.				T.	.03	1.14
Warsaw[2] (A)	Osage	T.		T.										.25						.17					*	.30				T.			0.72
Warsaw[2] (B)	do	T.												.22						.20				.02		*.28*						*.05*	§0.77
Wasola[2]	White				.13									.14	.04				.28	.06						.58							1.23
Waverly[2]	Missouri	.02	.12	T.										.20	.05				.29	.10					T.	.65							1.43
Wilderness Lookout[2]	White		.03											.24					.14						T.	.09							0.50
Southeastern Division																																	
Advance[3] ¼ mile W	St. Francis	T.		.26	T.						T.		.02	.16					.21	T.				.17	.35			.15		T.		.02	1.34
Alton(1) 10 miles SE	Black				.14									.24					.45						.35			.03				.01	1.22
Alton(2)[2] 7 miles NE	do																																....
Annapolis[2] 7 mi. W	do		.02		.12									.16	.01				.12	.02					.36	.26			T.	T.	T.		1.07
Arcadia[2]	St. Francis													.26			T.	*T.*	.20	.07					.27	.35			*T.*				1.15
Belleview[2]	Meramec		T		.06									.09	.07	T.			.07	.03	T				.24	.18			T.				0.74
Bernie[2]	St. Francis				.46									.37	.09				.40	.38	T.				.35	.34			.28			.20	2.87
Birch Tree[2] ½ mile E	Black		T.		.11									.22		T.			.25	.03					.19	.20	T.	T.					1.00
Black 9 miles NW	do			*	.10								*	.17					.13	*T.*					.44							.02	0.86
Bloomfield[2]	St. Francis					.30							T.		.06				.41	.04					.38				.23				1.42
Bunker[2] 4 miles NW	Black												.03								.17				.12								0.32
Campbell	St. Francis			.10	.37									.45					.50					.06	.72	.05		.12				.02	2.39
Cape Girardeau (A)	Mississippi			.10	.14									.24	T.				.33	.01				T.	.27	.30		.18		T.		.02	1.59
Cape Girardeau[2] (B)	do				.21									.06	.07				.17	.28					.19	T.			.17				1.15
Caruthersville (A)	do			.41	.18						*T.*			.60					.23					.17	.62	.03		.20	.03			.05	2.52
Caruthersville[2] (B)	do				.60									.49					.17	.06					.35	.55			.23				2.45
Centerville(1)[2]	Black				.09									.15					.13	.03					.40	.16							0.96
Centerville(2)[2]	do				.05						T.		T.	.12	.02	T.			.13	.04					.12	.39							0.87
Cook Station[2]	Meramec		*T.*											.30					.12	*T.*	.10				.12	.09							0.73
Crane Mountain[2]	St. Francis				.08									.15					.12	T.					.40	.29							1.04
Crystal City	Mississippi		.05	*T.*										.24					.39					T.		.88		*	.02		T.	.01	1.59
Cuba	Meramec	.02		.08										.40					*	*					.45							*T.*	0.95
Deering[2]	St. Francis				.60									.67	T.				.40	.15					.34	.33		T.	.11	T.	T.		2.60
De Soto[2]	Mississippi		.06	*	.04									.11	.09		T.		.22	.09					.61	.21							1.43
Dexter[3]	St. Francis				.31									.24					.20	.28					.52	.38			.16				2.09
Doniphan(1)	Black			.26	.15								T.	.49					.49					T.	.43			.05				T.	1.87
Doniphan(2)[2]	do				.22									.29					.38	.03					.19	.26			.05				1.42
East End[2]	Meramec													.20	.05		T.		.08						.05	.36							0.74
Eastwood Lookout[2]	Black		.02		.05									.21	T.				.25	*.02*					.10	.29							§0.94
Ellington[2]	do				.10									.10	.11				.14	.19					.36	.25							1.25
Ellsinore Lookout[2]	do				.10									.04					*.30*						.13	.19			.11				§0.87
Farmington[2]	St. Francis				.05									.08	.10	*T.*			.09	.08					.20	.35			*T.*				0.95
Fisk[2]	do				.34									T.					.45	T.					.26	.36			T.				1.41
Fredericktown[2]	do		T.		.04									.06	T.		T.		.10	.08					.22	.24			T.				0.74
Gerald[2]	Meramec		T.	*T.*	*T.*									*.12*	*.04*				*.38*	*.12*					.65	.09					T.		§1.40
Greenville(1)	St. Francis			.08	.13									.21					.25	T.					.30			.20				*T.*	1.17
Greenville[2] (2)	do		.02		.19									.15					.27	.07					.23	.26			.06				1.25
High Lookout[2]	Black				.05									.18					.31	T.					.19	.21							0.94
Jackson	Mississippi		.03	.07	.26									*.20*					*.35*						.50	.20		.70					§2.31
Jefferson Barracks[2]	Mississippi		.10	T.							T.			.11	.11				.12	.12				T.	*	.93			T.			T.	1.49
Jerome[2]	Gasconade				.23									.32					*	.46					*.13*	*.23*							§1.37
Koshkonong[2]	Black		T.		.13									.32	*T.*				.35	T					.13	.25							1.18
Leeper[2]	do				.08									.14	.02				.45	.10					.18	.45			.03				1.45
Licking(1) 4 miles N	Gasconade	*.02*		*.04*									*.10*	*.05*					.15						.10							*.07*	§0.53
Licking(2)[2]	do		.02		.04									.10	.04				.12							.30							0.62
Macedonia Lookout[2]	Black				.14									.18	T.				.36	.04					.13	.44			.12				1.41
Malden[3] 4 miles NNW	Mississippi	T.	T.	.32	.03								.14	.20					.31					.33	.34			.12		T		.02	1.81
Marble Hill	do		T.	.13	.19									.16					.48						.19	.51		.07				*T.*	1.73
Meramec Park[2]	Meramec		.01	T.	.07									.15	.09		T.		.23	.11					.07	.34	T.			T.	T.	T.	1.07
Morehouse	Mississippi			.08	.26									.23					.52					T.	.49			.43				T.	2.01
Moselle[2]	Meramec		.02											.23	*.03*	*T.*			.28	.13					.35	02	.01						§1.07
New Madrid[2]	Mississippi				.47									.32	.05				.32	.12					.85	.46			.26	T.			2.85
Oates Tower	Black			T.	T.						*T.*		T.	.17		T.			.20	T.					.31	T.						.05	0.73
Owensville[2]	Gasconade		.06											*	.35				*	.43					*	.43							1.27
Pacific[2]	Meramec		*.09*	*.01*	*.04*									*	*	*	*		*	.75					*.24*					*T.*	*T.*		§1.13
Parma[2]	St. Francis				.41									.12	T.				.35	.19					.46	.21			.25	T.			1.99
Perryville	Mississippi			T.									*.08*	*.07*					*.20*						.46			T.	T.			*.01*	§0.82
Pilot Knob[2] 2 mi. NE	St. Francis													*.25*					*.18*						.52	.20							§1.15
Poplar Bluff[2] (A)	Black				.42														*.30*	*.15*					*.25*	*.29*			*.09*				§1.50
Poplar Bluff[2] (B)	do				.30									.23	T.				.40	.06					.27	.25			.12				1.63
Puxico[2]	St. Francis				.25									.15					.24	.06					.22	.29			.13				1.34
Qulin[2]	do		T.		.34									.40	T.				.40	.08					.23	.20			.10	T.			1.75
Reynolds[2]	Black				T.									T.					.19	.18					.19	.26							0.82
Richwoods[2]	Meramec		.05		*.03*									.33					.26						.38	.13							§1.18

Continued on next page

Daily Precipitation for December 1945—Continued from preceding page

Stations	Drainage-basins	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Total
Southeastern Division –	*Concluded*																																
Rolla[2]	Meramec				.12						T.			.20	.08	*T.*	T.		.10	.05				T.	.10	.20						T.	0.85
Round Spring[2]	Black																		*.30*							.35							§0.65
St. Louis:																																	
City Office[1], [5]	Mississippi	.19		.01							T.		.14	.15		T.		.04	.31	.03				.14	.45	T.		T.		.02	T.	*.20*	§1.68
Airport[3], [5]	Missouri	.11		.01							T.		.15	.19		T.		.06	.50	.01				.09	.40	T.		T.		.05	T.	.15	1.72
St. Louis Univ.[1], [5]	Mississippi	.26		.02							T.		.12	.25				.06	.46					.27	.79	.03		T	T.	.03	T.	.17	2.46
Washington Univ.[2]	...do		.24											.20	.12				.10	.15					.49	.30					.05		1.65
Salem	Meramec	T.		.10									.05	.23		*T,*			.10					*T.*	.16							.08	0.72
Sikeston[2]	Mississippi		T.		.32				T.					.25	.01				.27	.15					.52	.27			.26	T.			2.05
Steelville[2] ...2½ mi. NE	Meramec		.03		.15									T.	.23				.12	.06				T.	*	.23							0.82
Summersville[2]	Black		T.		.04									T.	T.				.33	.01					.24	T							0.62
Union[2] ....1½ mi. SE	Meramec		.02		.01									.24	.05				*.40*	.05					.27	.35					T.		§1.39
Valley Park[2]	....do		.25		.06									*.16*	*.07*				*.17*	*.18*					.60	.20					T.		§1.69
Van Buren[2]	Black				.12									*.15*					*.14*	*.11*					*.15*	*.26*							§0.93
Vichy[3] .....2 miles NW	Meramec	.09		.15						*T.*	T.		.10	.10	T.	T.	T.	.02	.16	T.				.02	.11	T.				T.		.02	0.77
Wappapello Dam[2]	St Francis		T.		.25									.14	T.				.32	.03					.24	.21			.11				1.30
Webster Groves	Mississippi		.20	T.									.05	.23					.22	*.05*					.56	.19				.03	*T.*	.07	§1.60
Weingarten	....do													.10					*	*.20*					.85	.10		*T.*				*T.*	§1.25
West Plains[3]	Black	T.		.07	T.								.21	.05		T.		.01	.34	T.				.07	.54	T.		T.				.02	1.31
Williamsville[2]	....do				.20									.19	.01				.25	.05					.15	.30			.06				1.21
Willow Springs[2] 500 ft E	White				.05									.17	T.				.25	*T.*						.48						T.	0.95
Winona Ranger Sta.[2]	Black			*T.*	.12									.20					.22	T.						.01	.31	.15					1.01
Zalma[2]	Mississippi		.02		.18								T.		.03				.17	.09					.20	.24			T.				0.93
Cairo, Ill.[1], [5]	....do		T.	.30	.04						T.		.07	.19	T.	T.			.38					.23	.40			.16			T.	.05	1.82

Except as otherwise indicated, amounts are for 24 hours ending late in afternoon. [1] Midnight to midnight. [2] Measured in the morning; for the preceding 24 hours. [3] Data for 24 hours ending 12:30 A. M. (C. S. T.) of following day. [5] Recording gage. T. Trace or 0.005 inch or less. * Included in next measurement. // Wind-shield on gage. Italics data interpolated. § Partly interpolated. (A) Record from cooperative station gage. (B) Record from river station gage. ‡ Received too late to be included in means and extremes.

Daily Evaporation (inches), Mean Temperature (F°), and Wind Movement (miles) for December 1945

(See precipitation data in daily precipitation table)

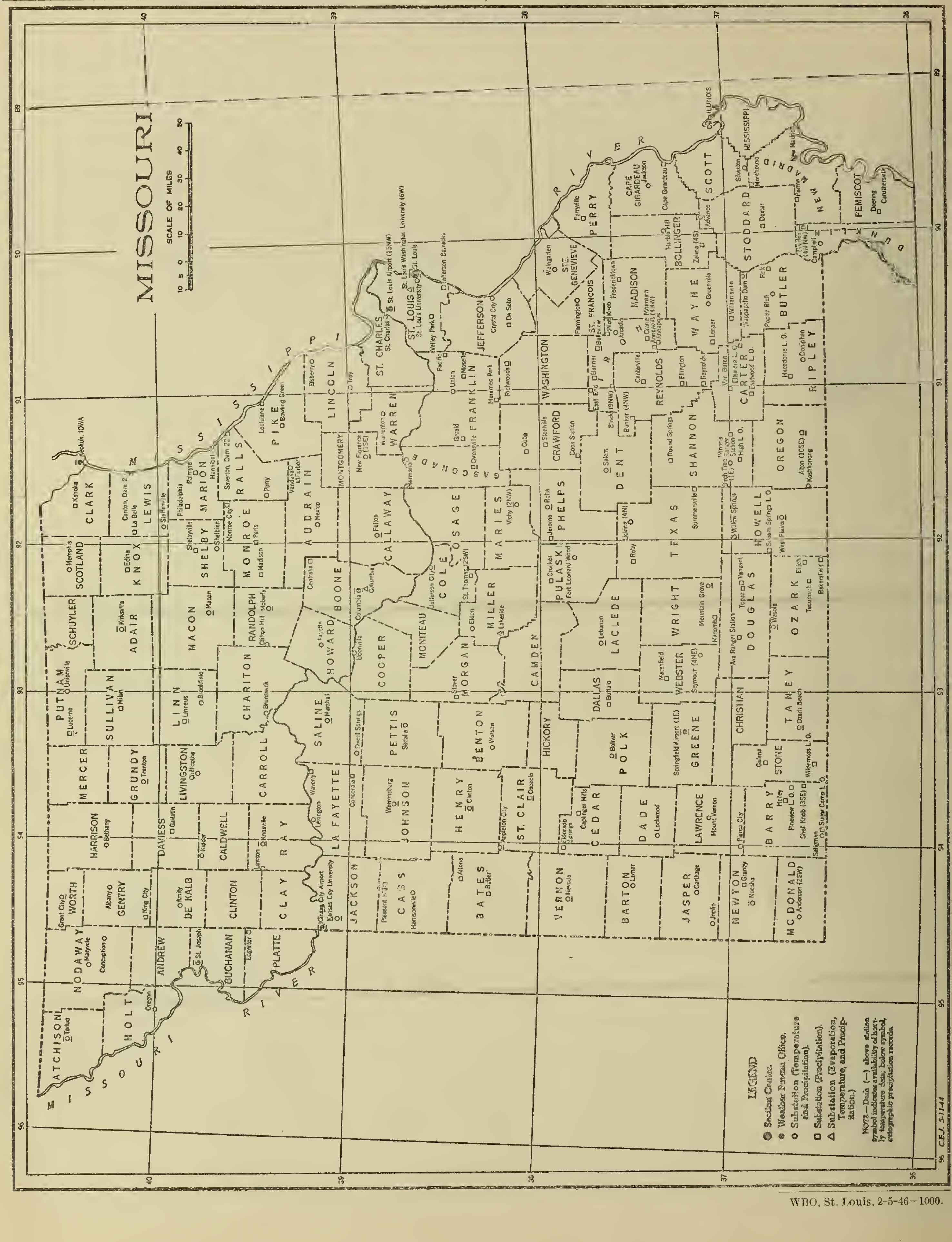
Station	Data	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Monthly
Columbia (Univ. of Mo. Hort. Exp. Sta. 9 mi. WNW.)	Evaporation																																
	Mean temperature	40	41	34	29	31	39	41	46	31	17	19	22	27	22	11	8	11	12	2	18	20	12	16	30	30	20	28	26	33	36	24	25.2
	Wind movement	119	184	129	123	29	33	53	104	116	132	47	16	79	100	125	105	29	136	135	91	43	115	145	81	270	159	18	43	45	184	169	3,157
Lakeside (Osage Dam)	Evaporation																																
	Mean temperature	40	40	36	32	35	36	44	46	28	22	22	24	30	26	18	18	18	18	14	22	28	18	23	36	26	25	32	39	41	41	32	29.4
	Wind movement																																
St. Louis (Washington University)	Evaporation	.016	.030	.024	*	*	*	*	*	.152																							
	Mean temperature	38	37	37	32	32	34	44	50	30	20	20	22	26	30	16	14	15	18	11	19	20	14	21	31	27	28	29	38	36	34	26	27.4
	Wind movement	28	53	39	111	71	9	18	33	49	77	38	22	33	37	34	46	27	63	72	45	40	47	88	61	37	68	31	23	34	67	74	1,475

Observations taken at 8:00 a. m. except at 7:30 a. m. at Lakeside. For Lakeside and St. Louis (Washington University) descriptions see April 1932 and August 1938 reports, respectively. * Included in next measurement.

Daily Temperatures for December 1945

Stations		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Northern Division																																	
Brunswick /	Maximum...	50	39	35	33	45	46	58	54	27	25	28	29	30	28	12	20	16	10	14	32	18	20	28	38	27	27	29	37	40	35	24	30.8
	Minimum ...	27	38	34	24	20	20	27	26	19	13	10	9	19	9	2	-3	-3	0	-4	-12	9	3	4	19	23	14	13	20	28	33	21	14.9
Chillicothe /	Maximum...	50	36	34	34	45	47	57	53	25	25	24	28	29	29	10	17	14	7	19	30	22	23	26	35	27	27	30	37	39	31	22	30.1
	Minimum ...	30	35	30	21	21	22	27	28	18	10	6	7	20	9	-1	-1	-1	5	-8	-8	7	3	7	19	24	15	18	18	24	29	18	14.6
Columbia	Maximum...	47	47	35	35	47	50	60	62	36	26	27	30	32	28	17	23	20	15	15	34	34	20	25	42	28	29	37	39	47	41	28	34.1
	Minimum ...	35	35	29	23	20	36	26	33	16	12	11	20	26	15	4	-1	12	0	-3	13	10	7	16	25	23	16	26	19	33	28	14	18.7
Fayette	Maximum...	48	49	36	34	44	47	53	58	42	24	30	30	30	29	20	22	17	13	14	34	30	19	22	40	32	27	33	35	42	43	30	33.3
	Minimum ...	35	35	31	22	18	27	27	31	18	11	7	15	25	13	2	-4	-1	4	-7	3	8	5	12	21	22	14	23	18	29	29	16	16.4
Grant City	Maximum...	45	48	32	40	45	54	58	53	41	26	24	25	26	28	25	15	12	14	10	27	22	11	20	30	30	30	28	26	38	39	26	30.6
	Minimum ...	38	30	22	15	21	30	28	28	15	7	4	16	22	3	-6	-1	-1	0	-12	7	3	4	3	18	20	17	12	16	25	25	12	13.6
Hannibal	Maximum...	44	45	36	30	42	50	57	58	39	23	21	27	31	28	17	16	16	12	11	27	21	15	23	40	32	27	30	34	42	37	25	30.8
	Minimum ...	30	34	28	20	19	28	29	37	14	7	5	12	22	13	0	0	0	3	-2	2	3	3	10	21	21	17	20	22	28	22	11	15.5
Kansas City Airport.	Maximum...	56	40	33	39	51	56	60	55	34	26	30	29	29	27	21	25	16	14	16	39	28	19	25	33	27	31	28	35	45	42	30	33.5
	Minimum ...	40	32	24	20	26	38	30	31	17	12	12	21	16	9	2	1	4	4	-4	16	9	6	14	23	19	18	22	23	35	26	13	18.0
Kirksville	Maximum...	41	46	35	30	41	45	57	53	42	23	21	25	28	27	23	18	15	13	10	26	21	12	20	*34*	36	26	28	30	38	37	26	29.9
	Minimum ...	32	29	29	20	21	30	28	33	17	7	6	12	21	15	-2	0	0	2	-4	2	1	4	5	19	22	11	13	15	29	25	17	14.8
Lawson	Maximum...	52	52	33	39	47	53	58	53	44	25	30	26	29	28	22	21	16	11	13	34	27	16	22	34	28	27	30	31	41	40	25	32.5
	Minimum ...	40	33	29	20	23	33	27	31	15	8	6	16	23	22	-3	-4	2	5	-10	7	10	2	8	22	24	13	17	22	30	25	15	16.5
Louisiana	Maximum...	45	45	39	37	45	53	59	62	51	27	25	29	32	31	25	19	23	18	14	30	25	18	25	40	41	29	34	36	44	43	31	34.7
	Minimum ...	32	38	35	27	16	29	28	32	26	10	6	8	24	23	5	-2	-5	9	1	-3	-6	-1	10	13	24	20	23	13	26	30	21	16.5
Macon/	Maximum...	48	38	33	34	44	47	58	54	28	24	25	27	30	27	8	18	16	8	14	29	22	18	25	38	27	26	30	37	42	31	23	30.0
	Minimum ...	30	34	32	22	19	19	27	27	17	9	6	7	16	19	2	-3	-1	0	-6	-6	1	3	7	18	23	15	14	12	19	30	19	13.9
Maryville	Maximum...	43	42	31	32	49	56	58	50	36	22	24	25	26	29	25	16	12	10	11	30	18	12	20	26	24	28	30	27	42	35	24	29.5
	Minimum ...	39	31	21	18	23	31	24	28	15	7	3	16	22	4	-6	-6	0	2	-14	6	5	3	4	20	21	13	15	14	27	24	11	13.6
Mexico /	Maximum...	41	39	34	32	44	52	56	49	27	23	26	29	30	27	10	19	18	11	16	31	26	20	31	39	27	26	32	39	43	31	24	30.7
	Minimum ...	31	34	33	24	17	23	28	29	21	10	7	8	19	21	9	-1	2	0	-5	-5	6	3	3	19	18	15	15	20	25	30	21	15.5
Moberly /	Maximum...	48	36	33	32	44	48	57	55	28	23	26	28	29	24	7	16	14	8	17	27	22	18	31	38	26	25	29	38	37	41	26	30.0
	Minimum ...	31	35	32	22	18	25	25	30	18	9	7	12	21	18	1	-2	4	5	-6	-4	2	4	7	18	22	15	19	13	21	20	20	14.9
Oregon	Maximum...	56	38	32	36	51	57	59	52	43	24	26	25	26	33	25	21	12	12	13	34	23	14	21	27	27	32	32	30	38	41	26	31.8
	Minimum ...	36	31	21	17	26	34	30	30	15	8	7	18	18	9	-5	-3	4	2	-11	9	10	1	5	20	20	14	15	14	29	25	13	14.9
St. Charles /	Maximum...	45	42	38	30	43	41	64	66	36	26	27	30	34	33	19	25	23	16	21	33	29	21	34	41	40	37	37	44	46	36	26	34.9
	Minimum ...	31	35	36	28	27	26	30	34	28	13	11	14	20	25	15	3	6	12	0	2	7	5	5	21	23	23	21	21	31	35	23	19.7
St. Joseph	Maximum...	56	38	30	36	51	57	60	53	29	23	28	27	26	30	21	20	14	9	16	34	25	17	22	30	26	26	31	33	44	40	23	31.4
	Minimum ...	38	30	21	19	29	36	31	29	16	10	10	20	18	12	0	2	6	2	-7	16	8	6	10	22	17	16	18	20	33	23	10	16.8
Trenton	Maximum ..	57	49	40	36	45	48	58	55	48	28	26	27	29	28	21	20	19	13	14	31	24	20	22	34	31	29	31	34	39	38	27	32 9
	Minimum ...	34	35	30	21	23	33	26	31	18	9	6	16	18	9	-2	2	-1	2	-8	5	6	7	10	10	22	12	18	22	30	21	12	15.4
Unionville /	Maximum...	47	36	33	35	44	46	57	55	28	26	26	26	28	27	10	10	15	5	12	28	18	16	22	33	29	33	34	35	37	27	23	29.1
	Minimum ...	28	30	29	19	18	21	28	27	16	6	2	2	14	10	-5	-5	-4	-4	-7	-8	0	0	4	15	7	15	13	14	22	26	15	11.2
Warrenton	Maximum...	46	45	39	38	48	52	58	65	50	26	28	30	32	32	26	23	25	20	14	34	30	20	23	42	42	30	36	42	44	45	30	36.0
	Minimum ...	28	36	34	25	15	26	28	36	21	11	6	12	24	22	8	-1	5	9	-2	2	2	4	13	22	22	19	19	26	32	30	19	17.8
Keokuk, Iowa	Maximum...	45	46	37	28	43	48	57	55	35	20	19	26	28	27	14	16	14	8	11	23	17	12	22	36	33	27	28	31	42	36	23	29.3
	Minimum ...	33	37	27	23	22	34	30	35	12	10	6	13	23	14	-1	2	1	3	2	8	3	8	12	21	23	20	17	18	31	23	9	16.7
Southwestern Division																																	
Clinton	Maximum...	53	40	34	37	52	52	63	56	37	27	32	32	32	30	15	27	22	17	19	40	45	22	30	43	28	30	34	35	50	39	30	35.8
	Minimum ...	32	34	30	22	18	37	26	37	18	14	12	24	14	5	3	-5	16	5	-6	14	13	6	17	23	20	16	26	27	35	27	15	18.5
Eldon	Maximum...	48	49	37	35	50	53	58	62	50	26	29	32	33	30	25	27	24	21	18	40	41	30	25	45	40	29	36	49	50	50	32	37.9
	Minimum ...	35	36	32	24	20	29	30	40	20	12	12	21	25	15	8	2	13	13	-4	10	11	14	17	24	22	16	25	24	35	32	22	20.5
Harrisonville /	Maximum...	53	37	33	41	42	57	60	59	23	30	30	29	33	22	12	26	17	13	20	39	38	21	31	36	27	30	30	38	46	35	34	33.5
	Minimum ...	28	33	29	20	20	23	25	31	15	9	10	12	23	0	2	-8	-2	10	-10	-10	12	2	4	18	19	13	20	22	24	31	21	14.4
Jefferson City	Maximum...	52	49	38	35	47	52	60	63	54	54	31	31	31	28	20	24	23	21	15	33	35	26	25	48	35	28	35	44	48	49	29	37.5
	Minimum ...	32	34	29	17	15	24	25	36	21	13	8	20	12	9	4	-2	6	7	-5	6	4	4	16	23	22	16	21	23	30	28	15	16.8
Joplin	Maximum...	55	42	34	37	56	54	61	58	41	26	37	34	34	29	23	34	36	30	19	39	46	30	36	54	30	36	44	47	56	49	42	40.3
	Minimum ...	42	34	30	24	25	43	35	41	24	16	20	29	20	17	10	10	25	3	-3	19	25	15	30	23	21	25	27	26	43	32	22	24.4
Lamar /	Maximum...	55	45	34	41	55	57	62	60	32	32	35	34	35	35	19	35	36	25	24	39	48	30	39	45	33	34	44	46	55	39	44	40.2
	Minimum ...	33	31	31	23	18	20	24	25	22	12	12	19	27	8	7	2	3	20	-7	-7	15	10	10	28	20	18	24	24	26	36	24	18.0
Lebanon	Maximum...	48	46	57	35	53	52	60	63	55	27	30	30	32	29	23	29	36	32	18	37	45	39	31	49	34	29	51	50	49	50	29	40.3
	Minimum ...	34	34	31	23	18	30	25	42	22	12	12	20	25	12	9	1	10	17	-4	4	12	10	20	29	21	17	22	26	35	33	24	20.2
Lexington /	Maximum...	55	39	36	39	52	52	50	54	34	26	32	30	32	34	16	27	18	14	28	40	31	22	18	20	40	32	28	40	44	46	46	34.7
	Minimum ...	36	38	29	21	21	34	42	34	28	12	12	12	24	12	4	3	6	10	-2	4	12	5	10	-3	1	12	22	24	24	31	20	17.4
Marshall	Maximum...	52	51	42	40	47	47	62	59	50	30	34	31	42	34	33	22	22	22	21	39	37	32	34	44	45	44	38	35	46	43	30	39.0
	Minimum ...	36	35	32	22	20	35	29	35	13	11	10	9	25	7	3	-4	4	6	-7	7	10	4	8	13	14	9	24	22	22	28	18	16.1
Mountain Grove	Maximum...	45	45	44	34	54	49	60	66	62	30	33	30	33	31	25	30	37	35	24	39	40	39	33	48	48	38	45	40	45	46	34	40.7
	Minimum ...	31	35	31	24	18	30	29	36	28	12	14	20	25	16	12	5	19	23	-1	4	21	19	23	28	21	18	29	30	30	32	24	22.1
Neosho	Maximum...	63	53	40	38	58	55	63	61	51	28	41	36	33	34	29	37	35	33	18	44	48	39	55	54	35	42	54	54	56	53	40	44.5
	Minimum ...	43	34	32	25	16	34	22	40	25	15	14	23	30	12	14	5	17	18	-8	6	14	20	32	28	21	21	33	23	36	36	28	22.9
Nevada	Maximum...	55	50	37	42	53	58	60	58	50	31	34	32	33	33	25	30	29	24	22	38	44	36	33	42	30	31	34	38	51	50	41	39.5
	Minimum ...	44	34	31	23	17	32	24	37	20	13	13	25	27	2	9	-4	19	11	-8	7	19	7	19	30	20	18	27	26	33	34	24	20.4
Sedalia	Maximum...	53	52	36	34	51	51	60	57	47	26	30	32	30	27	20	23	20	16	11	35	37	31	26	40	35	29	35	35	50	47	31	35.7
	Minimum ...	39	35	31	23	18	37	28	41	18	11	9	19	25	9	3	-5	14	7	-9	8	14	3	15	23	22	15	25	20	30	30	19	18.6
Springfield . 4 mi. NW	Maximum...	48	45	33	37	50	53	58	62	35	26	33	30	32	28	18	30	35	28	16	37	44	34	32	48	28	33	52	51	50	47	38	38.4
	Minimum ...	38	33	30	22	19	32	26	35	22	13	16	25	22	10	5	5	19	4	-5	6	19	17	27	22	21	19	29	30	32	30	16	20.6
Warrensburg	Maximum...	54	52	36	35	50	50	59	55	..	26	30	31	30	28	22	23	20	17	15	36	40	30	25	42	34	29	30	33	47	46	31	34.1
	Minimum . /.	41	34	31	22	23	36	30	38	18	12	13	18	24	5	4	-3	13	8	-6	8	12	4	15	23	22	14	25	26	31	31	22	19.2
Southeastern Division																																	
Arcadia /	Maximum...	46	50	36	36	50	48	60	65	42	30	33	33	35	35	25	32	40	23	20	44	40	30	35	46	29	42	39	54	44	45	30	39.3
	Minimum ...	25	28	32	28	25	20	25	27	33	17	12	11	18	23	11	6	7	13	3	2	9	9	12	22	25	20	21	27	31	30	25	19.3
Birch Tree .. ½ mile E	Maximum...	47	49	41	34	52	51	61	66	52	..	35	31	34	33	27	33	39	32	27	41	43	34	30	48	35	44	39	49	45	43	37	[a]41.1
	Minimum ...	23	28	32	26	20	20	29	30	..	15	11	14	27	17	12	2	10	25	1	-7	9	16	24	27	24	20	28	33	28	33	28	[a]20.2
Caruthersville	Maximum...	50	50	49	38	48	53	60	65	54	40	36	37	37	35	36	34	41	37	35	38	43	45	38	49	47	45	46	51	42	50	42	44.2
	Minimum ...	31	44	35	33	28	26	32	36	39	24	22	24	31	30	23	12	20	29	8	5	18	30	30	33	31	26	31	33	33	40	31	28.0
Crystal City	Maximum...	47	45	41	36	45	45	59	68	61	30	31	33	35	36	30	28	29	26	20	40	35	35	27	45	45	37	32	55	49	45	34	39.5
	Minimum ...	29	40	35	29	19	20	28	28	29	15	12	19	26	25	11	5	11	18	2	-2	10	8	19	26	26	22	22	30	29	33	24	20.9
Doniphan	Maximum...	51	53	42	42	55	54	64	69	57	36	36	35	37	37	35	37	42	34	30	45	43	40	32	49	48	47	38	46	41	45	43	44.0
	Minimum ...	25	36	30	29	20	19	24	24	34	20	13	14	29	20	13	5	11	29	4	-8	2	16	26	28	26	17	29	34	33	39	29	21.6
Farmington	Maximum...	47	47	41	35	46	46	56	65	62	30	28	35	34	33	36	27	38	30	20	41	40	36	25	44	44	38	36	53	50	45	33	40.0
	Minimum ...	28	38	34	27	19	26	31	37	28	15	12	17	24	23	14	5	12	20	1	4	13	10	18	24	25	20	25	30	32	32	25	21.6
Jackson	Maximum...	47	52	44	38	47	46	57	62	41	34	29	34	33	34	31	37	36	36	28	34	37	35	29	44	44	41	41	40	40	45	37	39.8
	Minimum ...	26	37	38	29	24	31	39	34	30	19	13	15	23	16	11	13	6	22	4	6	6	12	12	17	15	11	15	20	19	25	17	19.5
Poplar Bluff	Maximum...	50	54	40	38	51	52	61	67	54	35	34	35	37	35	34	35	41	37	28	*38*	41	34	31	46	*45*	45	36	41	42	49	41	42.2
	Minimum ...	24	33	29	32	25	20	29	24	33	20	16	12	29	21	15	7	13	28	2	2	6	15	25	29	23	21	28	32	32	38	30	22.4
Rolla /	Maximum...	48	39	35	32	49	52	59	64	30	27	27	32	33	32	18	26	33	20	22	38	41	26	39	47	26	33	39	48	48	35	30	36.4
	Minimum ...	28	36	33	25	17	30	30	38	26	13	12	14	22	20	14	2	13	19	-1	0	13	8	13	23	22	18	21	27	33	35	23	20.2
St. Louis	Maximum...	44	44	38	34	45	44	56	67	47	24	25	32	32	32	23	22	25	22	14	33	30	20	27	42	34	32	35	49	44	44	28	35.1
	Minimum ...	31	37	31	27	26	30	34	39	22	13	14	20	26	23	6	5	16	*10*	5	11	13	10	18	27	25	23	26	32	37	27	20	22.1
Salem	Maximum...	48	46	37	34	53	50	61	67	49	37	33	31	33	33	23	30	40	33	21	42	43	32	31	48	43	39	39	49	43	45	33	40.2
	Minimum ...	31	36	33	26	18	29	29	33	26	14	12	20	25	20	8	3	13	20	0	6	11	13	21	27	23	19	24	31	33	32	24	21.3
Sikeston /	Maximum...	49	51	39	37	50	51	59	65	46	33	33	34	35	32	33	33	42	33	23	38	40	29	41	46	35	43	36	48	44	46	36	40.6
	Minimum ...	27	30	31	32	26	25	28	30	31	22	18	18	22	29	18	10	12	18	4	3	10	9	11	28	30	25	26	31	32	34	30	22.6
Union ...... 1½ mi. SE	Maximum...	58	47	39	47	47	52	57	65	55	27	28	33	33	31	20	22	25	23	13	34	34	24	26	43	42	30	33	48	49	46	33	37.5
	Minimum ...	29	37	35	28	16	21	27	25	24	14	13	12	25	19	3	0	5	11	0	8	1	2	17	25	24	20	17	29	28	30	21	18.3
West Plains	Maximum...	47	50	36	37	55	52	62	66	46	32	34	31	34	35	27	34	42	31	19	46	45	36	30	49	30	47	42	52	45	48	38	41.2
	Minimum ...	24	33	32	25	16	18	25	25	24	12	13	17	26	15	8	6	11	13	-3	-1	4	15	24	29	22	20	32	26	25	32	21	19.0
Cairo, Ill.	Maximum...	45	50	41	38	48	50	56	63	50	30	30	34	35	34	30	29	40	35	23	32	37	36	35	46	45	39	38	50	44	47	35	40.2
	Minimum ...	31	39	35	32	29	29	34	39	30	23	20	23	30	24	16	12	22	23	8	7	18	23	27	35	31	26	31	34	33	35	25	26.6

/ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs. [a], [b], [c], etc., number of days missing, for example, [b] indicates two days missing. Italics data interpolated. § Partly interpolated.


MISSOURI
SCALE OF MILES
10 5 0 10 20 30 40 50
LEGEND
◉ Section Center.
● Weather Bureau Office.
○ Substation (Temperature and Precipitation).
□ Substation (Precipitation).
△ Substation (Evaporation, Temperature, and Precipitation.)
NOTE.—Dash (—) above station symbol indicates availability of hourly temperature data, below symbol, autographic precipitation records.
C.E.J. 5-1-44

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Nat Hist

U. S. DEPARTMENT OF COMMERCE, WEATHER BUREAU

CLIMATOLOGICAL DATA

MISSOURI SECTION

H. F. WAHLGREN
ST. LOUIS, MO.

VOL. LIX ANNUAL SUMMARY 1945 No. 13

PRICE: 5 CENTS A COPY; 25 CENTS A YEAR

JUL 20 1946
UNIVERSITY OF ILLINOIS

GENERAL SUMMARY

For the third time since the records began 58 years ago, the average precipitation for the State exceeded fifty inches, this year's average being 53.26 inches. Only 1898 and 1927 had greater average annual amounts. The first six months of 1946 were, collectively, the wettest ever experienced in any six-month period, January to June, inclusive. The period average for these months in 1945 was 34.66 inches, compared with the previous record of 31.49 inches set in 1927. By the close of June some stations had received more precipitation than they normally get in a full year. Too, a new record for average number of days with 0.01 inch, or more, of precipitation, in a calendar year, was set, there being 112 such days in 1945; previous record was 106 in 1935. The year, as a whole, was slightly cooler than normal.

March was unusually warm and wet, being the wettest March since records began in 1888. September also set a new high mark for average precipitation, for months of that name, with a State average of 9.46 inches. December was the coldest month of the year, with a mean temperature of 27.8°. The summer, as a whole, was cooler than normal. The wet September proved unfavorable for the maturing of corn and soybeans, and for the harvest of late hay, but the following two months were favorable for farm work, although frost, in some localities, damaged corn and soybeans. Corn yields were below those of 1944, but above the 10-year average production.

Snowfall for the year averaged 19.6 inches, the greatest since 1940. One snowstorm, on February 16-17th, was heavy enough to hamper rail and motor traffic in parts of the counties bordering the Missouri River.

Hail damage for the year exceeded a million dollars, with more than half a million of that amount reported in St. Louis and St. Louis County, on May 14th, when hail fell over an area 8 to 10 miles wide and about 15 miles long.

Tornadoes occurred in April, June and July, 7 persons being killed and 74 injured in the April storms while 5 persons were injured by similar disturbances in June. Two persons were killed in a windstorm occurring in the vicinity of Steele, Pemiscot County, on November 26th, and 8 persons were injured. Details of tornadoes, wind and hail storms will be found in the respective monthly issues of Climatological Data for 1945.

Although flood damage in 1945 was not as heavy as in the two preceding years, it nevertheless aggregated several million dollars. In the Meramec basin, severe flooding occurred in June. At Valley Park the river crested at 33.0 feet at noon, June 11th, the highest reading at that point since 1916. On the afternoon of June 8th a very heavy rain, of so-called cloudburst proportions, fell locally at Newburg, Phelps County, causing a flash flood on the creek running through that section and resulting in the drowning of 5 persons. Property damage was estimated by the U. S. Engineer Office, Kansas City, Mo., at $277,141. No record of actual rainfall at Newburg and immediate vicinity was available, but the amount was no doubt unusually heavy.

(Continued on page 99)

CONDENSED STATE SUMMARY FOR 1945

Month	Temperature				Precipitation				
	Mean	Departure from Normal	Maximum	Minimum	Mean	Departure from Normal	Greatest	Least	No. Days with .01 or more
January	30.0	− 0.8	65	−12	1.08	−1.22	3.52	0.23	7
February	35.5	+ 2.2	85	−13	4.05	+1.94	10.38	§0.42	9
March	52.6	+ 8.6	89	2	7.44	+4.19	15.91	2.54	12
April	55.9	+ 0.6	86	20	7.75	+3.71	13.82	3.43	14
May	60.5	− 4.0	92	31	5.50	+0.71	9.24	1.79	12
June	69.5	− 4.1	95	37	8.84	+4.09	17.10	3.68	14
July	75.1	− 2.9	105	44	2.10	−1.44	8.72	0.15	6
August	76.8	+ 0.2	103	45	2.08	−1.74	8.27	0.26	5
September	69.4	+ 0.1	103	36	9.46	+5.38	18.36	3.59	14
October	56.8	− 0.9	85	23	2.18	−0.76	7.08	0.18	6
November	46.3	+ 1.8	86	6	1.39	−1.26	5.15	0.20	5
December	27.8	− 6.3	70	−20	1.39	−0.78	3.57	0.32	8
Year	54.7	− 0.4	105	−20	53.26	+12.82	18.36	0.15	112

Italics data interpolated. § Partly interpolated.

COMPARATIVE ANNUAL DATA FOR MISSOURI

Year	Temperature			Precipitation					Number of days			
	Average for State	Highest	Lowest	Average for State	Average Northern Division	Average Southwestern Division	Average Southeastern Division	Snowfall, Average for State	Precip. .01 in. or more	Clear	Partly cloudy	Cloudy
1888	52.9	111	−32	40.40	39.67	41.36	40.17	....	81	....	....	....
1889	54.3	107	− 9	38.19	36.97	40.35	37.26	....	85	....	....	....
1890	54.7	110	−19	39.51	31.07	42.08	45.39	....	82	....	....	....
1891	53.9	104	−13	37.18	37.28	37.71	36.54	....	93	....	....	....
1892	52.8	102	−31	44.77	41.62	47.88	44.80	....	92	141	95	130
1893	52.7	107	−20	39.17	35.42	38.99	43.10	....	77	155	117	93
1894	55.1	111	−35	34.61	26.97	38.27	38.58	15.4	73	170	120	75
1895	52.9	106	−26	40.03	36.74	43.42	39.92	23.7	85	161	108	96
1896	55.5	108	−10	40.37	39.65	39.79	41.68	12.6	86	154	111	101
1897	55.0	108	−16	40.56	35.18	37.46	49.03	19.5	86	167	104	94
1898	54.4	104	−20	54.26	51.87	51.12	56.80	18.6	102	162	102	101
1899	54.0	108	−32	37.93	36.34	36.81	40.64	28.8	82	166	110	89
1900	55.6	105	−16	39.00	35.73	39.57	41.70	18.5	90	171	106	88
1901	55.5	116	−29	25.86	23.36	26.56	27.66	19.2	72	190	98	77
1902	54.1	103	−17	45.01	42.71	48.98	43.33	16.7	103	159	103	103
1903	53.6	102	−25	40.63	38.78	42.79	40.31	16.5	96	170	96	99
1904	53.2	100	−23	42.06	41.59	42.43	42.16	18.8	89	180	99	87
1905	53.6	103	−40	47.00	39.82	51.84	49.35	22.3	97	174	91	100
1906	55.0	101	−13	39.43	30.26	38.78	49.25	28.2	98	165	89	111
1907	55.4	109	−15	40.91	37.01	41.92	43.81	12.8	95	173	82	110
1908	56.8	102	−10	43.81	37.66	47.24	46.54	9.7	91	184	92	90
1909	55.8	110	−20	45.27	44.94	42.95	47.92	18.3	92	173	90	102
1910	54.6	109	−24	37.81	31.96	37.99	43.48	17.2	82	183	81	101
1911	56.7	113	−19	37.43	38.04	37.92	36.33	15.2	88	166	86	113
1912	53.5	105	−36	38.99	32.53	38.82	45.62	39.6	81	192	80	94
1913	56.5	110	−12	38.20	33.14	35.96	45.50	26.0	87	174	80	111
1914	56.1	109	−18	34.68	32.21	36.43	35.41	26.4	81	171	86	108
1915	55.0	102	−24	49.84	48.57	51.74	49.22	25.3	98	160	86	119
1916	55.3	109	−29	40.62	38.58	41.08	42.19	18.2	87	191	77	98
1917	52.6	107	−23	32.21	28.70	31.92	36.01	13.9	80	186	83	96
1918	55.4	111	−25	37.69	32.60	37.19	43.29	27.2	84	185	80	100
1919	55.3	106	−23	40.27	36.73	40.46	43.62	10.2	86	181	81	103
1920	54.3	105	−10	37.56	33.62	38.66	40.40	15.4	89	171	82	113
1921	58.2	109	− 8	44.70	39.16	46.40	48.54	11.1	92	173	93	99
1922	56.8	108	− 6	39.68	37.50	41.64	39.90	8.2	85	192	80	93
1923	55.3	108	−11	42.18	33.43	42.47	50.64	8.6	98	165	88	112
1924	53.0	106	−28	40.03	35.28	44.39	40.41	28.3	92	173	91	102
1925	55.6	110	−15	39.15	38.83	36.81	41.82	16.4	84	171	94	100
1926	54.5	108	−20	42.92	42.35	43.85	42.57	23.2	95	160	86	119
1927	55.6	102	−24	55.53	42.03	59.85	64.70	13.4	101	163	91	111
1928	55.2	102	−18	45.88	41.22	46.01	50.40	6.8	90	174	94	98
1929	53.5	105	−23	46.72	44.13	45.56	50.48	22.3	102	155	93	117
1930	55.9	114	−31	31.38	26.71	34.90	32.53	17.6	75	194	84	87
1931	58.0	110	− 5	40.31	41.10	38.85	40.97	14.2	93	175	82	108
1932	55.6	109	−21	38.24	35.88	36.74	42.09	16.0	85	178	93	95
1933	57.3	108	−22	37.62	29.65	37.05	46.16	8.0	86	175	95	95
1934	57.4	117	−26	35.08	30.66	34.92	39.66	23.0	82	187	89	89
1935	55.0	110	−12	48.04	42.33	49.12	52.66	5.0	106	144	89	132
1936	56.3	118	−25	29.42	26.48	30.03	31.73	15.8	73	196	86	84
1937	54.5	105	−15	37.30	29.85	36.16	45.89	15.3	93	160	96	109
1938	58.4	110	− 9	41.00	36.86	42.36	43.83	10.0	92	182	90	93
1939	57.4	108	− 9	38.25	36.16	35.92	42.68	23.3	93	181	96	88
1940	54.0	111	−28	32.42	28.22	34.22	34.84	25.1	94	159	94	113
1941	57.2	110	0	42.15	41.10	48.07	37.31	14.0	102	151	101	113
1942	55.5	106	−24	46.08	42.48	47.87	47.89	18.9	105	154	97	114
1943	55.1	110	−23	37.89	35.73	42.10	35.87	16.1	89	170	103	92
1944	55.9	107	−21	38.99	39.95	41.59	35.44	16.8	101	150	105	111
1945	54.7	105	−20	53.26	42.79	53.20	63.80	19.6	112	144	95	126
Period	**55.1**	**118**	**−40**	**40.44**	**36.68**	**41.37**	**43.27**	**17.9**	**90**	**170**	**93**	**102**

NAT. HIST.

Climatological Data for Year 1945

Stations	Counties	Elevation, feet	Temperature (Degrees Fahrenheit)						Precipitation (inches)							Number of days				Prevailing direction of wind
			Length of record, years	Annual mean	Highest	Date	Lowest	Date	Length of record, years	Total	Greatest monthly	Month	Least monthly	Month	Total snowfall	With precip. .01 inch or more	Clear	Partly cloudy	Cloudy	
Northern Division																				
Albany	Gentry	930	5	51.6	98	Sep. 5	−15	Dec. 18	17	40.29	7.48	May	0.68	Oct.	24.5	108	176^{n}	86^{n}	89^{n}	s.
Bethany	Harrison	916	51	51.1§	97	July 24†	−14	Dec. 19	53	§36.30	7.04§	June	0.65	Oct.	29.2§	§90	§159^{h}	§87^{b}	§111^{h}	sw.
Brookfield	Linn	767	4	52.2	102	Aug. 1†	− 7	....do...	4	39.75§	8.52	Sep.	0.81	Feb.	24.7	91	182	37	146	e.
Brunswick	Chariton	652	65	52.4	99	July 23	−12	Dec. 20	67	46.76	9.57	June	0.73	Jan.	26.0§	115	165	45	155	nw.
Canton, Lock & Dam 20	Lewis	488	8	51.2	99	Aug. 1	−13	Feb. 1	16	42.66	9.33	..do..	0.72	July	34.4	115	133	99	133	nw.
Chillicothe	Livingston	779	37	51.6	102	July 24	− 8	Dec. 19†	40	34.81§	8.00	Sep.	§0.42	Feb.	26.0§	97	235	24	106	ne.
Clifton Hill	Randolph	731	47	53.1§	99	Aug. 2	− 6	....do...	37	49.66§	11.01	June	*0.80*	Jan.	27.0§	§131	§127	§102	§136	sw.
Columbia	Boone	740	56	54.0	99	July 24	− 3	Dec. 19	56	51.18	13.34	Sep.	0.30	Nov.	29.6	131	114	130	121	s
Conception	Nodaway	1,108	57	51.8	99	....do...	−14	....do...	62	41.87§	8.19	May	0.34	..do..	21.7§	101	141	123	101	s.
Edgerton	Platte	856	26	53.4§	98	Aug. 1†	−10	....do...	43	37.11§	7.78	June	0.57	..do..	20.2§	§91	§210^{a}	§59^{a}	§95^{a}	se.
Elsberry	Lincoln	449	15	53.1§	100	Aug. 30†	−12	Dec. 20	15	43.82§	8.65	Sep.	0.85§	Jan.	21.6§	109	§121	§137	§107	n.
Fayette	Howard	760	66	53.2	98	July 23	− 7	Dec. 19	63	45.69	9.88	..do..	0.58	Nov.	25.6§	107	174	54	137	sw.
Fulton	Callaway	818	58	53.0	99	July 23†	− 4	....do...	51	44.34§	12.13	..do..	0.91	Oct.	35.2§	117	206	67	92	sw.
Grant City	Worth	1,134	42	50.8	98	July 24	−12	....do...	54	40.04§	7.85	May	0.31§	Nov.	31.6§	106	148^{a}	114^{a}	102^{a}	e.
Hannibal	Marion	759	54	51.9	98	Sep. 4	− 8	Jan. 9	62	45.80	10.99	Sep.	0.42	Juiy	32.4	112	115	127	123	s.
Kansas City Airport	Jackson	741	57	54.8	100	July 22	− 4	Dec. 19	57	35.26	6.63	April	0.26	Aug.	23.1	117	105	98	162	sw.
Kansas City University	Jackson	908	8	55.0	99	Aug. 17	− 4	....do...	8	37.89	7.21	..do..	0.27	..do..	20.2§	111	136	83	146	sw.
Kidder	Caldwell	1,020	54	51.2	99	July 24	−15	....do...	58	39.96§	6.98	Sep,	0.64	Nov.	21.7§	112	145	71	149	s.
Kirksville	Adair	969	57	51.8	99	July 22†	− 8	Jan. 9	64	41.44	10.69	June	0.39	July	34.7§	114	159	82	124	sw.
Lawson	Ray	1,070	8	52.9	99	July 1†	−10	Dec. 19	8	41.46	9.10	..do..	0.52	Nov.	23.9	105	126	136	103	sw.
Louisiana	Pike	469	52	52.2	99	Aug. 30	− 6	Jan. 9†	65	43.09§	9.49	..do..	0.87	July	27.0§	103	169	104	92	s
Macon	Macon	875	47	51.2	100	Aug. 2	− 9	....do...	53	41.22	9.15	Sep.	0.85	Jan.	26.6	117	105	98	162	ne.
Maryville	Nodaway	1,169	56	50.3	99	July 24	−14	Dec. 19	52	44.20	9.24	May	0.68	..do..	31.4	115	136	70	149	se.
Memphis	Scotland	787	7	50.3	103	Aug. 1	−11	Feb. 1	16	34.97§	8.51	June	0.38	July	29.7	85	141	77	147	sw.
Mexico	Audrain	800	57	52.1	99	Sep. 4	− 5	Jan. 9†	68	48.02§	12.68	Sep.	1.00	Nov.	32.2	100	140	85	140	sw.
Moberly.....3½ mi. NE	Randolph	860	9	51.9	98	Aug. 2	− 7	Jan. 9	9	44.23§	8.43	..do..	0.57	Jan.	24.4§	105	218	55	92	se.
New Florence 1 mi. SE.	Montgomery	885	3	52.1	97	Aug. 30	− 4	....do...	4	44.06	13.62	..do..	0.89	Dec.	27.5	116	77	114	174	s.
Oregon	Holt	1,048	90	52.8	101	July 24	−11	Dec, 19	90	39.72§	7.81	May	0.27§	Nov.	28.4§	97	164	122	79	ne.
St. Charles	St. Charles	520	58	54.5	100	July 30	− 2	Jan. 9†	68	44.59§	9.44	Sep.	1.24	..do..	22.3§	120	167^{a}	120^{a}	77^{a}	s.
St. Joseph	Buchanan	957	36	53.2	100	July 24	− 7	Dec. 19	74	39.26	10.10	June	0.42	..do..	21.4	119	186	92	87	s.
Saverton	Ralls	472	8	52.8	98	Aug. 22†	−11	Feb. 1	8	48.07	11.02	..do..	0.91	..do..	26.9§	120	175	83	107	nw
Shelbina	Shelby	779	5	52.2	100	July 24†	−10	Jan. 1†	23	46.18§	11.97	..do..	0.49	July	29.2	102	154^{h}	77^{h}	126^{h}	nw.
Steffenville	Lewis	650	48	52.0	100	....do...	−10	Jan. 9	53	41.80	9.52	Sep.	0.59	..do..	29 6§	117	150	109	106	s.
Tarkio	Atchison	916	43	50.0	101	July 24	−20	Dec. 19	52	36.55	6.41	June	0.18	Oct.	35.1	95	108^{a}	123^{a}	133^{a}	s.
Trenton	Grundy	822	50	52.8	100	July 24†	− 8	....do...	51	41.37	9.36	..do..	0.49	Feb.	35.0	113	121	130	111	s.
Unionville	Putnam	1,062	53	49.6	101	July 22	−10	Jan. 9	53	38.47§	10.11	..do..	0.69	..do..	31.4§	111	135	165	65	w.
Vandalia	Audrain	766	1	52.8§	99	Aug. 30†	− 7	....do...	6	43.02§	*11.47*	Sep.	0.70	Nov.	27.2§	§112	§161^{f}	§73^{f}	§125^{f}	s §
Warrenton	Warren	816	61	54.0	100	Aug. 5	− 8	Jan. 10	56	45.26§	12.97	..do..	0.29	Aug.	30.9§	116	183	106	76	se.
Keokuk, Iowa	Lee, Iowa	574	74	51.7	100	July 24	− 8	Jan. 9	74	38.76	9.26	June	0 04	July	22.1	118	108	123	134	sw.
Division means	**and extremes**	......	..	**52.3**	**103**	**Aug. 1**	**−20**	**Dec. 19**	..	**42.79**	**13.62**	**Sep.**	**0.15**	**July**	**27.6**	**109**	**152**	**96**	**117**	**s.**
Southwestern Division																				
Anderson....1½ mi. SW	McDonald	1,000	42	55.0	97	Sep. 1†	−10	Dec. 20	47	67.27§	13.10	April	0.21	Nov.	13.5§	88	176^{b}	63^{b}	124^{b}	sw.
Appleton City	St. Clair	813	51	54.9	98	Sep. 4	− 7	Dec. 16†	54	40.17	7.30	May	0.47	..do..	17.6	101	164	36	165	sw.
Bolivar	Polk	1,071	43	56.3	100	Aug. 5†	− 7	Dec. 19	51	52.36§	13 07	Sep.	0.70	..do..	17.8	112	147	97	121	sw.
Boonville	Cooper	650	8	52.8	98	Sep. 4	− 6	Dec. 20	69	46.85§	11.39	..do..	0.36	..do..	27.2§	99	97	113	155	se.
Carthage	Jasper	962	12	57.2	99	July 25†	− 5	Dec. 19	22	53.68	11.66	..do..	0.21	..do..	14.3§	100	124	169	72	sw.
Clinton	Henry	786	53	51.8	103	Sep. 4	− 6	....do...	59	44.78	7.96	May	0.48	..do..	15.6§	107	136^{c}	100^{c}	126^{c}	s.
Eldon	Miller	934	51	54.8§	100	Aug. 5	− 4	....do...	47	46.04§	*10 53*	Sep.	0.65	Jan.	15.6§	103	§140^{o}	§92^{o}	§118^{o}	u.
Fort Leonard Wood	Pulaski	1,107	4	54.9§	97	July 23†	− 1	Dec. 19†	4	62.93§	14.19	..do..	0.50	Dec.	15.4§	103	..	..	..	nw.
Harrisonville	Cass	904	68	52.9	99	July 22†	−10	....do...	71	42.63§	8.78	June	0.23	Jan.	21.3§	110	107^{a}	65^{a}	192^{a}	se.
Jefferson City	Cole	557	56	54.1	99	Sep. 4	− 5	Dec. 19	64	47.54§	9.42	Sep.	0.90	Nov.	25.1§	118	108^{n}	112^{n}	131^{n}	s.
Joplin	Jasper	1,008	24	58.3	96	July 23†	− 3	....do...	41	53.54	14.62	..do..	0.20	..do..	*15.5*	99	176	55	134	s.
Lakeside	Miller	595	15	54.4	99	Aug. 5†	4	Dec. 19†	15	48.98	9.86	..do..	0.70	..do..	22.2§	119	130^{a}	106^{a}	128^{a}	sw.
Lamar	Barton	980	58	54.7	97	Aug. 4†	− 7	....do...	65	55.55	10.10	June	0.75	..do..	14.0	88	182	71	112	sw.
Lebanon	Laclede	1,265	58	55.0	98	Aug. 5†	− 4	Dec. 19	59	58.24§	15.03	Sep.	0.58	..do..	21.7§	124	115	116	131	sw.
Lexington	Lafayette	688	61	54.8§	101	Aug. 2	− 3	Dec. 24	62	38.35§	7.63	..do..	0.51	Jan.	27.4§	§95	§163^{a}	§80^{a}	§121^{a}	s.
Lockwood	Dade	1,078	40	57.3	100	Aug. 5†	− 6	Dec. 19	50	53.51	11.95	..do..	0.40	Nov.	14 0	96	162	127	76	sw.
Marshall	Saline	779	59	55.6	102	Aug. 31†	− 7	....do...	56	47.59§	11.38	..do..	0.85	..do..	29.3§	97	144^{h}	125^{h}	88^{h}	s
Mountain Grove	Wright	1,463	45	55.8	99	July 24†	− 1	....do...	49	57.80	10.27	April	0.90	July	14.0§	125	129	131	105	se.
Mount Vernon	Lawrence	1,174	34	55.9§	101	Sep. 4	− 7	....do...	46	58.21§	12.33	..do..	0.34	Nov.	*14 2*	106	118	139	106	s.
Neosho	Newton	1,011	59	57 8	97	July 25†	− 8	....do...	63	63.84	16.12	Sep.	0.36	..do..	16.2	108	129	141	95	sw.
Nevada	Vernon	862	53	56 9	101	Aug. 4†	− 8	....do...	54	47.76	10.18	..do..	0.35	..do..	22.1	101	175	56	134	sw.
Ozark Beach	Taney	700	6	56.9	101	July 23†	1	Dec. 19†	21	63.80	13.82	April	0.72	Dec.	9.6§	106	72	120	173	se.
Sedalia	Pettis	910	33	55 2	100	Aug. 5	− 9	Dec. 19	35	45.06§	10.83	Sep.	0.57	Jan.	27.8§	119	170	60	134	sw.
Seligman	Barry	1,542	45	57.2	96	Aug. 30†	− 5	....do...	43	64.44	10.68	..do..	0.43	Nov.	15.5§	99	159^{u}	105^{u}	80^{u}	s.
Seymour....3½ mi. NE	Webster	1,642	40	53 0	96	July 23	− 3	....do...	40	56.28	12.02	April	0.81	..do..	16.7	112	179^{a}	56^{a}	129^{a}	s.
Springfield....½ mile E	Greene	1,301	58	54.8	97	Aug. 4	− 5	....do...	58	54.40	12.15	..do..	0.45	..do..	10.9	124	97	93	175	s.
Sweet Springs	Saline	700	5	54.4	103	Aug. 5	− 9	Dec. 16†	22	44.32§	11.82	Sep.	0.66§	Jan.	23.3§	127	112^{b}	161^{b}	90^{b}	s.
Warrensburg	Johnson	878	59	55.7	101	....do...	− 6	Dec. 19	66	41.19	9.24	..do..	0.27	..do..	21.3§	113	169^{b}	73^{b}	121^{b}	sw.
Warsaw	Benton	687	45	56.5	101	Aug. 30†	− 6	....do...	51	48.05§	11.19	..do..	0.63	Nov.	16.2§	105	154	95	116	nw.
Wasola	Ozark	1,294	5	56.8	99	July 24	2	....do...	5	60.31§	10.28	April	0.67	..do..	24.5§	105	174	98	93	s.
Division means	**and extremes**	......	..	**55.5**	**103**	**Aug. 5†**	**−10**	**Dec. 19†**	..	**53.20**	**18.36**	**Sep.**	**0.20**	**Nov.**	**18.8**	**108**	**143**	**98**	**124**	**sw.**
Southeastern Division																				
Advance......¼ mile W	Stoddard	354	9	56.0	101	July 23	− 6	Dec. 20	9	71.96	15.93	June	1.15	Jan.	7.0	136	91	92	182	s.
Arcadia	Iron	926	65	54.9	103	July 23†	2	Jan. 10†	68	65.36	14.08	..do..	0.64	..do..	8.7§	95	153	47	165	e.
Birch Tree....½ mile E	Shannon	1,000	51	55.7	100	July 23	− 7	Dec. 20	52	64.53§	10.44	Mar.	1.00	Dec.	13.7§	111	171^{x}	82^{x}	88^{x}	se.
Black.......9 miles NW	Iron	1,000	53	53.8	99	....do...	− 7	....do...	53	66.46	16.50	June	0.78	Aug.	10.7§	122	160^{b}	94^{b}	109^{b}	w.
Campbell	Dunklin	314	20	59.1§	101	July 24	0	....do...	20	73 31§	13 00	..do..	2.26	July	15.6	125	§147^{p}	§122^{p}	§80^{p}	s.
Caruthersville	Pemiscot	265	50	58.5	100	July 25	5	....do...	54	66.42	9.33	Mar.	2.52	Dec.	7.1§	126	164	79	122	e.
Crystal City	Jefferson	420	11	56.2	101	July 23†	− 2	....do...	12	50.26§	10.89	..do..	0.83	Jan.	17.1	122	128^{a}	58^{a}	178^{a}	nw.
Doniphan	Ripley	344	42	58.2	105	July 24	− 8	....do...	42	74.79	13.41	June	0.90	July	10.0§	109	212	48	105	e.
Farmington	St. Francois	896	35	55.5	101	Aug. 30	1	Jan. 9†	49	61.64	10.39	Mar.	0.95	Dec.	12.7	122	100	83	182	s.
Greenville	Wayne	460	37	57.3	104	July 23†	− 4	Dec. 20	39	71.77§	15.57	June	0.33§	Jan.	6.8§	105	156^{g}	86^{g}	116^{g}	se.
Jackson	Cape Girardeau	428	55	57.0	103	July 24	0	Jan. 29	56	79.15§	15.91	Mar.	0.76	July	11.5§	123	121	65	179	s.
Koshkonong	Oregon	958	45	57.7	100	....do...	0	Dec. 19	46	73.95	13.47	June	1.18	Dec.	8.8	116	156	70	139	se.
Licking......4 miles N	Texas	1,170	9	55.5	98	July 22†	− 2	Jan. 30	9	50.86§	11.26	Sep.	0.53§	..do..	*9.2*	81	163	79	123	s.
Malden... 4 miles NNW	Dunklin	292	3	58.2	105	July 24	− 3	Dec. 20	3	68.17	13.98	June	1.61	July	7.5	123	98	74	193	s.
Marble Hill	Bollinger	532	51	57.0	103	July 23†	− 2	Jan. 29†	53	77.71	14.71	Mar.	1.38	Jan.	8.3§	121	152	111	102	s.
Poplar Bluff	Butler	339	41	57.6	101	July 22†	2	Dec. 19†	42	65.72§	12.56	June	1.21	Oct.	13.8§	91	208^{a}	91^{a}	65^{a}	s.
Rolla	Phelps	1,202	46	51.8	97	July 24†	− 1	Dec. 19	62	60.10§	12.05	..do..	0 66	Aug.	19.4	106	89	179	97	sw.
St. Louis:																				
City Office	....	465	109	55.6	98	July 23	0	Jan. 9	109	49.82	10.01	Sep.	1.00	July	18.6	132	89	114	162	s.
St. Louis Airport	St. Louis	556	9	54.5	100	....do...	− 2	....do...	15	47.24	10.04	..do..	1.07	..do..	22.8	135	79	128	158	s.
St. Louis University	St. Louis City	578	34	55.5	98	....do...	0	....do...	34	53.94	10.51	..do..	1.05	Jan.	21.9§	141	160	85	120	se.
Washington Univ.	St. Louis	536	8	54.7	100	....do...	− 1	....do...	8	53.47	9.18	..do..	1.53	..do..	....	125	..	..	..	.....

Continued on next page

Climatological Data for Year 1945—Continued from preceding page

Stations	Counties	Elevation, feet	Temperature, (Degrees, Fahrenheit)						Precipitation (inches)							Number of days				Prevailing direction of wind
			Length of record, years	Annual mean	Highest	Date	Lowest	Date	Length of record, years	Total	Greatest monthly	Month	Least monthly	Month	Total snowfall	With precip. .01 inch or more	Clear	Partly cloudy	Cloudy	
Southeastern Division—	*Concluded*																			
Salem	Dent	1,206	42	55.7	100	July 23†	0	Jan. 31†	45	63.75	11.31	Sep.	0.34	Aug.	12.4§	113	135	113	117	s.
Sikeston	Scott	318	39	57.8	104	July 24†	3	Dec. 20	49	70.01§	16.33	June	2.05	Dec.	11.6§	139	136	158	71	se.
Union........ 1½ mi. SE	Franklin	520	8	55.2	101	Aug. 30†	0	Feb. 18†	29	48.22§	11.07	Sep.	0.81	Nov.	24.4§	116	173	54	138	nw.
Vichy...... 2 miles NW	Maries	1,125	10	54.0	97	July 23†	− 1	Dec. 19	10	60.60	13.95	..do..	0.77	Dec.	15.0	134	119	80	166	sw.
Wappapello Dam	Butler	475	7	57.2	103	....do...	4	Dec. 19†	7	69.01	13.20	June	1.29	Jan.	7.0§	124	138	86	141	sw.
Weingarten	St. Genevieve	833	4	55.6	102	....do...	0	Jan. 9†	5	55.47§	9.25	Sep.	1.00	..do..	8.6§	89	134	110	121	n.
West Plains	Howell	1,005	9	55.4	102	July 24	− 3	Dec. 19	9	65.36	12.41	June	0.41	July	11.0	124	111	99	155	s.
Willow Sprgs..500 ft. E	Howell	1,238	5	55.5	98	July 23†	− 2	Dec. 20	40	56.37	10.36	April	0.95	Dec.	12.1§	101	166	77	122	s.
Cairo, Ill	Alexander, Ill	314	74	58.6	100	....do...	7	Dec. 20	75	61.98	10.17	June	0.84	July	8.3	146	94	109	162	sw.
Division means	**and extremes**	......	..	**56.3**	**105**	**July 24**	**− 8**	**Dec. 20**	..	**63.80**	**17.10**	**June**	**0.30**	**July**	**12.5**	**120**	**139**	**95**	**131**	**s.**
State means	**and extremes**	......	..	**54.7**	**105**	**July 24**	**−20**	**Dec. 19**	..	**53.26**	**18.36**	**Sep.**	**0.15**	**July**	**19.6**	**112**	**144**	**95**	**126**	**s.**

Figures and letters following station indicate distance and direction of station from the city Post Office, unless otherwise indicated. ᵃ, ᵇ, ᶜ, indicate the number of days missing from records, a, 1; b, 2; c, 3; etc. † Also on other dates. Italics data interpolated. § Partly interpolated.

KILLING FROSTS, 1945

Stations	Last in Spring	First in Autumn	Days in Growing Season	Stations	Last in Spring	First in Autumn	Days in Growing Season	Stations	Last in Spring	First in Autumn	Days in Growing Season	Stations	Last in Spring	First in Autumn	Days in Growing Season
Northern Division															
Albany	April 5	Oct. 9	187	Moberly	April 5*	Oct. 9*	187	Lamar	April 5*	Nov. 3*	212	De Soto	....	Nov. 4	....
Amity	do 5	do 9	187	New Florence	do 19*	do 9*	173	Lebanon	do 5	Oct. 9*	187	Doniphan	April 19*	Oct. 9*	173
Auxvasse	do 6	do 9	186	Oregon	do 18	do 9	174	Lexington	do 5*	....	....	Farmington	Mar. 9	Nov. 4	240
Bethany	do 5*	do 9	187	St. Charles	do 5*	Nov. 3*	212	Lockwood	do 5	Nov. 9	218	Greenville	April 19*	Oct. 9*	173
Brookfield	do 5*	do 9*	187	St. Joseph	do 5	Oct. 9	187	Marshall	do 5*	Oct. 9*	187	Jackson	do 6*	do 11*	188
Browning	do 5	do 9	187	Saverton	do 5*	Nov. 4	213	Mountain Grove	do 5*	Nov. 4	213	Jefferson Barracks	....	do 9	....
Brunswick	do 5*	do 9*	187	Shelbina	do 27*	Oct. 9	165	Mount Vernon	do 5*	do 3*	212	Koshkonong	April 5	Nov. 22	231
Cantou	do 5*	do 9*	187	Steffenville	do 5*	do 9	187	Neosho	May 5*	do 3*	182	Licking	do 19*	Oct. 9*	273
Chillicothe	do 5*	do 9	187	Tarkio	do 18	do 8*	173	Nevada	April 5*	do 3	212	Malden	Mar. 9*	Nov. 4*	240
Clifton Hill	do 5*	do 9	187	Trenton	do 5*	do 9*	187	Ozark Beach	do 6*	do 4*	212	Marble Hill	April 6	Oct. 9	186
Columbia	Mar. 10	Nov. 4	239	Unionville	do 19*	do 9	173	Pierce City	do 5	....	....	Morehouse	do 6	Nov. 4	212
Columbia(near)	April 5	Oct. 9	187	Warrenton	do 19*	do 9*	173	Sedalia	do 5*	Oct. 9	187	Poplar Bluff	do 6*	Oct. 10*	187
Conception	do 5	do 9	187	Keokuk, Iowa	do 5	do 9	187	Seligman	do 5*	Nov. 9*	218	Rolla	do 5	do 9*	187
Edgertou	do 5	do 9*	187					Seymour	do 19*	Oct. 10*	174	**St. Louis:**			
Elsberry	do 19*	do 9	173					Springfield	do 5	Nov. 9	218	City Office	Mar. 7	Nov. 4	242
Fayette	do 5	Nov. 4	213	*Southwestern Division*				Sweet Springs	do 5*	Oct. 9	187	St. Louis Airport	April 5*	do 3*	212
Fulton	do 5	do 4*	213	Anderson	April 6	Oct. 25	202	Vanzant	....	do 25	....	St. Louis Univ.	do 5*	do 4*	213
Grant City	do 5	Oct. 9	187	Appleton City	do 5*	do 9*	187	Warrensburg	April 5	do 9	187	Washington U.	do 5*	do 4*	213
Hannibal	do 4*	do 9	188	Bolivar	do 5*	Nov. 4	213	Warsaw	do 5*	Nov. 8	212	Salem	do 5	do 4	213
KansasCityAirport	do 5	do 9	187	Boonville	do 5*	do 4*	213	Wasola	do 5	Oct. 9*	187	Sikeston	Mar. 8*	do 4	241
Kausas City Univ.	do 5	do 9	187	Butler	....	Oct. 9	....					Summersville	April 5	Oct. 10	188
Kidder	do 26*	do 9	166	Carthage	April 5*	do 9*	187					Union	do 19*	do 9*	173
King City	do 5	Nov. 4	213	Clinton	do 4	Nov. 9	219	*Southeastern Division*				Vichy	do 5*	Nov. 4	213
Kirksville	do 5	Oct. 9	187	Concordia	do 5	do 9	218	Advance	April 6*	Oct. 10*	187	Wappapello Dam	May 3*	do 4*	185
Lawson	do 5*	do 9	187	Eldon	do 6*	....	....	Arcadia	do 19*	Oct. 9*	173	Webster Groves	....	do 3	....
Louisiana	do 19*	do 9*	173	Elijah	....	Oct. 25	....	Belleview	....	do 9	....	Weingarten	April 5	do 15	224
Macon	do 5*	do 9	187	Ft. Leonard Wood	April 5*	do 9*	187	Birch Tree	April 5	do 10	188	West Plains	do 6	do 4	212
Martinsburg	....	do 9	....	Hailey	do 6	....	....	Black	do 6	do 9	186	Willow Springs	do 19*	Oct' 9*	173
Maryville	April 5	do 9	187	Harrisonville	do 5*	Oct. 9	187	Campbell	do 6	Nov. 4*	212	Cairo, Ill.	Mar. 9	Nov. 4	240
Memphis	do 20*	do 9*	172	Jefferson City	do 5*	do 9	187	Caruthersville	Mar. 9	do 4	240	....	....	....	....
Mexico	do 5*	do 9*	187	Joplin	do 5*	Nov. 21*	230	Crane Mountain	....	Oct. 9	....	....	....	....	....
Milan	....	do 9	....	Lakeside	do 6*	Oct. 9	186	Crystal City	April 6	do 9	186	....	....	....	....

* Occurrence of killing frost not recorded; dates given are last in spring and first in autumn of temperature 32° or lower.

(Continued from page 97)

Slight earthquakes, causing no damage, were felt in parts of the State on several dates.

TEMPERATURE

The annual mean temperature for the State was 54.7°, or 0.4° below than the 58-year normal. The highest annual mean was 59.1° at Campbell, and the lowest annual mean was 49.6° at Unionville. The highest temperature recorded was 105° at Doniphan and Malden on July 24th, and the lowest was 20° below zero at Tarkio on December 19th.

PRECIPITATION

The average annual precipitation for the State was 53.26 inches, or 12.82 inches more than the 58-year average. The greatest annual amount was 84.94 inches at Bernie, and the least annual amount was 32.98 inches, at Waverly. The greatest local monthly amount was 18.36 inches at Buffalo in September, and the least local monthly amount was 0.15 inch at Kahoka in July. The greatest amount in 24 hours was 6.98 inches at Sikeston on June 7-8. The average number of days with 0.01 inch, or more, was 112, or 22 more than normal.

The average annual snowfall for the State was 19.6 inches, or 1.7 inches more than the 52-year average. The greatest annual snowfall was 38.5 inches at Palmyra, and the least annual amount was 5.1 inches at New Madrid. The greatest monthly snowfall was 18.7 inches at Canton in January.

ERRATA

May 1945, page 39: Mean maximum temperature at St. Joseph should be 69.0.

July 1945, page 51: Number of cloudy days at West Plains should be 4.

October 1945, page 79: Mean minimum temperature at St. Joseph should be 45.3.

November 1945, page 82: Number of partly cloudy and cloudy days at Springfield should be 6 and 11, respectively.

December 1945, page 90: Mean temperature and departure at St. Joseph should be 24.2 and − 5.4, respectively. Page 95: Mean maximum temperature at St. Joseph should be 31.5.

Monthly and Annual Precipitation for the Year 1945, with Departures from Normal

Stations	January		February		March		April		May		June		July		August		September		October		November		December		Annual	
	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure
Northern Division																										
Albany	0.86	+0.03	1.30	−0.32	2.62	+0.93	5.07	+2.28	7.48	+4.80	6.05	+0.81	4.51	−0.12	1.12	−2.48	6.59	+1.04	0.68	−2.11	1.64	−0.07	2.37	+1.50	40.29	+6.29
Amity	0.85	−0.70	1.39	−0.13	4.00	+1.73	6.34	+2.24	7.45	+2.20	9.97	+2.97	3.30	+0.67	1.05	−3.15	6.69	+3.95	1.15	−0.98	0.81	−1.87	1.56	−0.48	44.56	+6.45
Auxvasse	1.17	......	2.72	......	§5.85	......	5.99	......	4.72	......	6.10	......	1.08	......	2.24	......	13.03	......	0.98	......	1.00	......	1.26	......	§46.14	......
Bethany	*0.88*	−0.31	*0.86*	−0.56	2.57	+0.34	§4.44	+1.15	§5.80	+1.63	§7.04	+1.98	3.01	−1.15	1.59	−2.23	6.27	+1.71	0.65	−2.27	0.88	−1.16	§2.31	+1.16	§36.30	+0.29
Bowling Green	§0.94	−0.96	§1.90	+0.46	5.89	+3.75	5.97	+3.43	3.54	−0.30	7.87	+4.63	1.03	−1.75	2.00	−1.81	9.53	+6.82	1.34	−0.91	0.84	−2.00	§1.36	−0.69	§42.21	+10.67
Brookfield	1.14	......	0.81	......	4.73	......	3.43	......	6.60	......	6.34	......	2.18	......	1.60	......	8.52	......	1.16	......	1.45	......	§1.79	......	§39.75	......
Browning ...3 mi. NE	1.62	......	0.84	......	3.88	......	3.88	......	4.34	......	9.07	......	0.92	......	1.26	......	7.28	......	0.89	......	0.98	......	2.29	......	37.25	......
Brunswick	0.73	−0.86	0.94	−0.87	5.14	+2.44	5.47	+1.64	7.38	+2.77	9.57	+4.46	3.69	−0.42	1.56	−2.38	8.18	+3.37	1.61	−1.39	1.13	−1.06	1.36	−0.31	46.76	+7.39
Canton, L. & D. No. 20	1.28	−0.66	1.27	+0.01	5.29	+2.95	5.81	+3.05	4.54	−0.78	9.33	+4.55	0.72	−1.61	1.09	−2.07	7.68	+3.94	1.53	−0.73	1.61	−1.10	2.51	+0.88	42.66	+8.43
Centralia	0.93	......	2.20	......	5.26	......	6.52	......	5.41	......	8.24	......	2.11	......	2.35	......	10.55	......	1.86	......	0.83	......	§1.15	......	§47.41	......
Chillicothe ......(A)	0.90	−0.58	§0.42	−1.03	3.27	+0.79	5.05	+1.83	4.45	+0.36	6.55	+1.82	1.29	−2.13	0.64	−3.32	8.00	+3.22	1.12	−2.02	0.71	−1.41	§2.41	+0.99	§34.81	−1.48
Chillicothe ......(B)	0.61	......	0.59	......	3.56	......	5.43	......	5.70	......	8.75	......	1.29	......	0.69	......	8.88	......	1.18	......	0.92	......	2.14	......	39.74	......
Clifton Hill	*0.80*	−0.92	*0.88*	−0.86	*5.15*	+2.41	6.92	+3.56	4.66	+0.26	11.01	+6.62	2.44	−0.92	2.88	−0.92	10.05	+5.51	1.65	−0.87	1.19	−0.79	§2.03	+0.31	§49.66	+13.39
Columbia	0.94	−0.98	2.50	+0.46	6.01	+3.10	6.36	+2.59	5.80	+1.34	9.50	+4.74	0.70	−2.79	2.66	−0.94	13.34	+8.99	1.60	−1.01	0.30	−1.90	1.44	−0.42	51.18	+13.18
Columbia..9 mi WNW	0.80	......	2.61	......	6.13	......	5.63	......	4.69	......	6.51	......	1.46	......	2.12	......	10.91	......	1.71	......	0.51	......	1.08	......	44.16	......
Conception	0.78	−0.01	0.98	−0.17	§2.92	+1.27	6.61	+3.88	8.19	+4.13	6.24	+1.29	3.57	−1.10	1.95	−1.69	8.07	+3.43	0.51	−2.37	0.34	−1.40	1.71	+0.83	§41.87	+8.09
Edgerton	§0.77	−0.08	*1.13*	−0.21	3.85	+1.59	6.40	+3.32	4.65	+0.45	7.78	+2.91	1.81	−1.69	1.81	−2.23	5.34	+0.75	1.74	−0.88	0.57	−1.40	§1.26	+0.14	§37.11	+2.67
Edina	1.62	−0.04	0.91	−0.22	3.74	+1.75	4.73	+1.60	3.90	+0.05	9.29	+3.85	0.55	−1.92	0.63	−3.47	8.13	+3.51	0.84	−1.42	1.14	−1.93	2.45	+1.11	37.93	+2.87
Elsberry	§0.85	−1.32	2.48	+0.82	7.95	+5.19	5.93	+2.88	2.28	−1.04	7.54	+4.10	1.97	−0.02	1.92	−1.34	8.65	+5.65	1.37	−1.14	1.21	−1.61	§1.67	−0.54	§43.82	+11.63
Elsberry S. C. S.	1.03	......	2.69	......	7.61	......	5.93	......	2.28	......	7.54	......	1.97	......	....	......	....	......	....	......	....	......	....	......	.....	......
Farber ......1 mile N	0.81	−1.05	1.74	+0.37	5.63	+3.22	5.02	+2.43	4.40	+0.28	5.46	+1.63	....	......	....	......	....	......	....	......	....	......	....	......	.....	......
Fayette	0.66	−1.13	1.82	+0.12	5.46	+2.64	7.08	+3.53	5.15	+0.83	7.51	+2.94	1.75	−1.50	2.43	−1.13	9.88	+4.92	1.40	−1.49	0.58	−1.52	1.97	+0.31	45.69	+8.52
Fulton	1.04	−0.98	2.03	+0.36	5.97	+3.01	5.60	+1.59	5.46	+0.86	6.30	+1.90	1.48	−1.81	1.17	−2.48	12.13	+7.64	0.91	−2.51	0.96	−1.35	§1.29	−0.72	§44.34	+5.51
Gallatin	0.67	−0.55	0.70	−0.89	4.25	+1.93	5.21	+1.65	5.23	+0.51	8.58	+3.52	3.36	−0.76	0.45	−3.35	§6.99	+1.79	1.62	−1.56	0.77	−1.31	§2.01	+0.73	§39.84	+1.71
Grant City	§0.77	−0.20	§1.23	+0.12	2.54	+0.53	5.36	+2.40	7.85	+3.62	5.66	+0.66	4.14	−0.49	2.22	−1.72	7.13	+2.44	0.63	−2.41	§0.31	−1.51	§2.20	+1.14	§40.04	+4.55
Hannibal ....(A)	1.43	−0.29	1.23	−0.63	6.19	+3.59	5.47	+2.28	3.21	−1.14	10.80	+6.90	0.42	−2.67	1.50	−1.84	10.99	+7.02	1.44	−0.95	1.45	−0.61	1.67	+0.13	45.80	+11.79
Hannibal ....(B)	1.03	......	1.23	......	7.15	......	6.15	......	3.60	......	10.23	......	1.98	......	1.40	......	11.59	......	1.83	......	1.64	......	2.05	......	49.88	......
Hermann	1.23	−0.70	1.84	+0.19	6.72	+3.89	5.96	+1.93	5.36	+1.19	6.80	+2.43	2.43	−0.91	0.35	−3.32	11.78	+7.40	2.58	−1.05	1.24	−1.23	§0.89	−0.92	§47.18	+8.90
Kahoka	§1.21	−0.67	§0.64	−0.43	§4.05	+1.94	4.63	+1.37	4.41	+0.15	8.47	+3.56	0.15	−1.73	1.95	−1.33	8.56	+4.02	0.97	−1.48	0.88	−2.47	1.65	−0.14	§34.47	−0.21
Kansas City Airport	0.38	−0.86	0.85	−0.61	4.32	+2.01	6.63	+3.11	5.55	+1.61	6.05	+1.37	1.73	−2.09	0.26	−3.28	6.55	+2.73	0.92	−1.77	0.60	−1.62	1.42	+0.22	35.26	+0.79
Kansas City Univ	0.42	......	0.98	......	5.12	......	7.21	......	5.39	......	6.55	......	2.27	......	0.27	......	6.29	......	1.24	......	0.61	......	1.54	......	37.89	......
Kidder	§0.65	−0.57	0.73	−0.81	§4.36	+2.17	5.85	+2.57	5.98	+1.33	6.57	+1.60	3.35	−0.53	1.13	−2.83	6.98	+1.78	1.86	−1.21	0.64	−1.51	§1.86	+0.59	§39.96	+2.58
King City	1.73	+0.59	1.10	−0.40	4.08	+2.02	4.84	+1.54	5.89	+1.68	10.57	+5.26	3.88	+0.34	0.79	−2.89	7.13	+1.71	1.36	−1.54	0.30	−1.66	3.40	+2.32	45.07	+8.97
Kirksville	1.38	−0.14	0.79	−0.74	4.01	+1.07	3.99	−0.11	4.47	−0.86	10.69	+5.63	0.39	−3.91	1.02	−3.10	9.17	+3.99	0.76	−2.40	1.45	−0.67	§3.32	+1.56	§41.44	+0.32
Knoxville	0.41	......	0.77	......	4.11	......	5.55	......	3.99	......	6.71	......	0.68	......	1.72	......	6.05	......	0.74	......	0.55	......	1.91	......	33.19	......
La Belle	§1.45	−0.22	§1.13	−0.14	4.22	+1.90	4.98	+2.07	3.93	−0.51	11.77	+6.53	0.92	−1.21	1.86	−2.76	9.49	+5.42	0.70	−1.58	1.68	−1.42	§2.81	+1.27	§44.91	+9.35
Lawson	0.67	......	1.06	......	4.23	......	5.92	......	4.72	......	9.10	......	3.43	......	1.15	......	7.67	......	0.70	......	0.52	......	2.29	......	41.46	......
Linneus	0.50	−1.47	§0.56	−0.61	4.38	+2.44	3.96	+0.86	6.71	+2.61	9.26	+4.54	2.00	−0.86	*1.27*	−2.69	*8.05*	+4.32	*1.20*	−1.45	1.52	−1.05	2.19	+0.81	§41.60	+7.45
Louisiana ....(A)	0.94	−1.21	1.40	−0.68	6.70	+3.23	6.24	+2.52	3.01	−1.69	9.49	+5.26	0.87	−2.73	1.53	−3.01	9.35	+4.92	0.91	−2.37	0.96	−1.50	§1.69	−0.21	§43.09	+2.58
Lousiana ....(B)	1.11	......	1.55	......	6.15	......	5.48	......	3.08	......	10.10	......	0.79	......	1.85	......	9.01	......	1.48	......	0.86	......	1.55	......	43.01	......
Lucerne	§0.89	−0.13	0.60	−0.60	3.94	+1.89	*4.12*	+0.56	*4.63*	−0.10	§8.71	+3.07	1.09	−1.97	1.40	−3.04	5.97	+0.31	§0.71	−2.82	0.87	−1.41	§2.98	+1.37	§35.91	−2.87
Macon	0.85	−6.85	1.01	−0.69	3.95	+1.11	5.70	+2.04	4.03	−0.56	8.13	+3.41	1.95	−1.46	1.91	−1.90	9.15	+4.71	0.90	−1.99	1.44	−0.75	2.20	+0.56	41.22	+3.63
Madison	§1.04	−0.90	1.01	−0.59	5.22	+3.12	8.56	+5.66	4.16	−0.38	10.10	+4.73	1.34	−1.63	3.21	−0.10	9.74	+6.01	1.34	−1.54	0.68	−2.44	§1.89	−0.01	§48.19	+11.93
Martinsburg	1.07	......	2.77	......	6.12	......	5.38	......	3.89	......	4.56	......	2.23	......	1.24	......	12.51	......	1.02	......	1.19	......	1.29	......	43.27	......
Maryville	0.68	−0.32	1.59	+0.16	3.96	+2.19	6.51	+3.50	9.24	+4.59	5.62	+0.51	4.21	−1.02	2.83	−1.15	6.10	+1.42	0.79	−2.18	0.93	−0.99	1.74	+0.66	44.20	+7.27
Memphis	§0.91	−0.62	§0.95	−0.02	§3.13	+0.77	3.72	+0.52	3.96	−0.05	8.51	+3.38	0.38	−2.42	0.78	−3.19	6.80	+2.62	1.42	−0.51	§0.84	−2.15	§3.57	+2.29	§34.97	+0.62
Mexico	1.14	−0.89	§2.17	+0.32	6.60	+3.69	§5.30	+1.55	6.34	+1.74	5.17	+0.43	2.35	−0.86	2.31	−1.51	12.68	+7.71	1.36	−1.71	1.00	−1.23	§1.60	−0.31	§48.62	+8.90
Milan	§0.96	−0.21	§0.78	−0.60	4.41	+2.16	4.15	+0.18	4.27	−0.55	9.28	+4.18	§1.15	−1.93	3.44	−0.80	7.17	+1.63	1.56	−2.41	0.78	−1.40	2.22	+0.41	§40.17	+0.66
Moberly	0.57	......	§0.75	......	6.04	......	8.39	......	3.76	......	6.62	......	2.52	......	3.55	......	8.43	......	0.96	......	0.82	......	§1.82	......	§44.23	......
Monroe City	1.60	−0.31	1.60	+0.19	6.52	+3.63	4.97	+1.30	4.10	−0.30	10.16	+5.38	0.92	−2.74	4.43	+0.11	10.23	+5.41	1.12	−1.48	1.12	−1.20	§2.00	+0.07	§49.07	+10.06
New Florence 1 mi. SE	0.94	......	1.73	......	6.73	......	5.55	......	3.17	......	6.83	......	1.56	......	0.98	......	13.62	......	0.93	......	1.13	......	0.89	......	44.06	......
Oregon	0.85	−0.08	1.48	+0.11	3.03	+1.07	6.58	+3.29	7.81	+3.28	7.50	+2.13	3.17	−1.01	1.08	−2.72	5.46	+0.36	0.66	−2.09	§0.27	−1.71	1.83	+0.79	§39.72	+3.42
Palmyra	1.28	−0.72	1.04	−0.70	7.64	+4.96	4.97	+1.24	1.79	−2.52	9.33	+4.58	0.85	−2.40	2.73	−1.11	11.14	+6.37	1.26	−1.10	1.63	−0.61	§1.62	−0.02	§45.28	+7.97
Paris	1.00	−0.79	§1.34	−0.09	6.16	+3.89	6.40	+3.93	4.32	−0.18	8.91	+4.77	1.62	−1.02	4.18	+0.60	9.63	+6.36	1.20	−0.67	0.86	−2.13	§1.74	−0.14	§47.36	+14.53
Perry	1.02	−0.90	§1.36	+0.07	6.55	+4.37	6.19	+3.88	3.84	−0.38	10.47	+6.71	1.15	−1.37	5.07	+1.26	11.06	+8.09	0.97	−0.87	0.53	−2.14	§1.49	−0.22	§49.70	+18.50
Philadelphia	1.13	−0.68	1.12	−0.51	....	......	....	......	....	......	....	......	....	......	....	......	11.42	+8.16	1.38	−0.64	0.92	−1.87	§1.66	+0.07	.....	......
St. Charles.......(A)	§1.26	−0.89	§2.94	+0.95	6.69	+3.52	6.90	+3.15	2.35	−1.93	6.18	+2.18	2.30	−0.69	2.32	−1.92	9.44	+5.60	1.33	−1.85	1.24	−0.87	§1.64	−0.15	§44.59	+7.10
St. Charles.......(B)	1.17	......	3.09	......	6.83	......	6.91	......	2.66	......	6.72	......	2.47	......	2.43	......	9.96	......	1.38	......	1.45	......	1.62	......	46.69	......
St. Joseph	0.59	−0.69	1.47	−0.20	3.84	+1.36	6.36	+3.17	5.25	+0.55	10.10	+5.15	2.60	−1.18	1.21	−2.62	5.35	+1.43	0.67	−2.22	0.42	−1.16	1.40	+0.11	39.26	+3.70
Saverton, L. No. 22	1.49	......	1.94	......	7.03	......	6.39	......	3.29	......	11.02	......	1.84	......	1.75	......	9.19	......	1.60	......	0.91	......	1.62	......	48.07	......
Shelbina	1.24	−0.29	§1.33	−0.51	6.07	+3.28	6.77	+3.02	4.05	−0.27	11.97	+7.49	0.49	−3.38	1.76	−1.96	7.82	+2.88	1.14	−1.47	1.04	−1.06	2.50	+0.96	§46.18	+8.69
Shelbyville	1.16	−0.41	1.00	−0.39	5.00	+2.75	7.92	+5.20	3.76	−0.86	9.48	+4.90	1.52	−1.20	1.69	−2.54	8.99	+5.84	1.03	−1.09	1.53	−1.45	2.05	+0.25	45.13	+11.00
Steffenville	1.10	−0.91	1.00	−0.77	4.27	+1.26	5.69	+2.11	3.87	−0.70	9.24	+4.70	0.59	−3.52	2.11	−1.93	9.52	+5.02	1.19	−1.54	1.10	−1.09	2.12	+0.43	41.80	+3.06
Tarkio	0.34	−0.40	1.65	+0.37	3.56	+1.89	4.22	+0.98	5.92	+1.38	6.41	+1.45	2.88	−1.27	6.07	+2.17	3.59	−0.65	0.18	−2.63	0.69	−1.05	1.04	+0.08	36.55	+2.32
Trenton	1.01	−0.33	0.49	−1.09	4.36	+1.91	4.95	+1.37	5.40	+0.70	9.36	+4.32	2.32	−1.75	1.25	−2.63	7.54	+2.79	1.73	−1.40	0.65	−1.47	2.31	+0.90	41.37	+3.32
Troy	§1.00	−1.00	2.17	+0.64	7.76	+5.04	5.58	+2.57	3.25	−0.64	5.29	+1.63	2.72	+0.37	2.91	−0.90	11.09	+7.87	1.87	−0.84	1.27	−1.72	1.25	−0.75	§46.19	+12.27
Unionville	1.06	−0.66	0.69	−1.08	3.69	+1.19	4.24	+0.54	5.14	−0.11	10.11	+4.92	1.51	−2.61	1.57	−2.71	6.46	+1.37	0.88	−2.25	0.81	−1.39	§2.31	+0.60	§38.47	−2.19
Vandalia	§1.07	......	§1.76	......	§6.17	......	*5.64*	......	*3.70*	......	§6.23	......	1.88	......	2.02	......	*11.47*	......	*1.06*	......	0.70	......	*1.32*	......	§43.02	......
Warrenton	1.08	−1.11	2.70	+0.81	6.97	+3.79	6.55	+2.51	3.12	−1.28	5.95	+2.17	2.07	−1.07	0.29	−3.38	12.97	+8.61	1.15	−2.29	0.97	−1.65	§1.44	−0.64	§45.26	+6.47
Keokuk, Iowa	0.88	−0.68	0.91	−0.64	4.44	+2.06	4.88	+1.89	4.63	+0.70	9.26	+5.13	0.04	−3.37	1.63	−1.57	6.99	+3.15	0.91	−1.35	1.77	−0.17	2.42	+0.97	38.76	+6.12
Southwestern Division																										
Altona	0.36	......	§1.51	......	4.08	......	8.23	......	7.62	......	5.63	......	3.08	......	1.90	......	6.08	......	1.32	......	0.36	......	1.11	......	§41.28	......
Anderson.. 1½ mi. SW	1.41	−1.12	4.31	+2.53	8.79	+5.09	13.10	+8.41	5.21	−0.51	5.79	−0.14	8.72	+4.31	1.72	−2.40	12.26	+8.38	5.12	+1.23	0.21	−3.14	§0.63	−1.72	§67.27	+20.89
Appleton City	0.65	−1.19	1.51	−0.13	4.80	+1.65	5.87	+1.74	7.30	+2.50	6.00	+0.98	2.20	−2.11	1.78	−2.18	6.20	+1.82	2.39	−0.57	0.47	−1.83	0.97	−0.62	40.17	+0.06
Ava Ranger Station	§1.11	......	§8.41	......	6.70	......	9.60	......	6.15	......	10.55	......	1.35	......	2.95	......	9.39	......	2.32	......	0.98	......	0.82	......	§60.33	......
Bolivar	§0.90	−1.03	§2.88	+0.78	6.66	+3.23	10.91	+6.74	5.90	+0.55	6.23	+0.92	1.55	−2.17	1.28	−2.58	13.07	+8.86	1.50	−1.75	0.70	−1.88	0.78	−1.56	§52.36	+10.11
Boonville........(A)	0.51	−1.21	3.16	+1.38	6.55	+3.51	6.98	+3.11	4.21	−0.40	5.80	+0.75	1.24	−2.00	2.82	−1.73	11.39	+6.20	1.66	−1.56	0.36	−1.85	§2.17	+0.47	§46.85	+6.67
Boonville ....(B)	0.68	......	2.34	......	5.71	......	6.36	......	3.80	......	8.33	......	1.04	......	2.73	......	10.91	......	1.75	......	0.27	......	1.56	......	45.48	......
Bradleyville	1.35	......	9.40	......	8.21	......	10.04	......	7.30	......	5.88	......	2.00	......	2.49	......	8.35	......	2.99	......	0.94	......	0.46	......	59.41	......
Buffalo	0.95	−1.16	3.27	+1.51	6.31	+3.40	10.56	+6.89	5.90	+0.70	6.16	+1.14	4.13	+1.17	1.99	−2.13	18.36	+15.01	2.11	−0.71	0.32	−3.08	1.06	−1.01	61.12	+21.73
Butler	0.73	......	1.71	......	3.74	......	8.54	......	4.68	......	4.97	......	7.25	......	1.97	......	6.41	......	1.34	......	0.33	......	1.18	......	42.85	......
Caplinger Mills	§0.84	−1.08	§2.51	+1.20	6.18	+3.45	6.52	+2.93	6.29	+1.42	4.74	−1.42	3.14	−0.62	1.46	−3.09	9.01	+5.29	2.17	−1.71	0.46	−2.30	0.75	−0.95	§44.07	+3.12
Carthage	0.92	......	2.65	......	5.55	......	8.43	......	7.05	......	6.24	......	2.61	......	2.96	......	11.66	......	4.55	......	0.21	......	0.85	......	53.68	......
Cassville	0.79	......	6.18	......	8.92	......	9.32	......	7.59	......	8.74	......	5.05	......	2.34	......	9.06	......	3.26	......	0.36	......	0.49	......	62.10	......
Clinton	0.73	−1.30	1.75	−0.20	5.23	+1.87	6.52	+2.35	7.96	+3.13	6.60	+1.70	1.84	−1.59	2.93	−0.72	7.66	+3.14	2.06	−1.39	0.48	−1.68	1.02	−0.85	44.78	+4.46
Concordia	0.53	−1.01	§1.61	+0.13	§5.54	+2.99	7.80	+4.46	§4.84	+0.09	6.48	+1.00	1.41	−2.58	0.45	−3.40	10.37	+5.87	1.42	−2.38	0.57	−1.65	1.25	−0.52	§42.27	+3.00
Crocker	§1.03	−1.65	§3.99	+2.10	8.78	+6.55	7.53	+3.73	6.14	+2.34	9.47	+6.52	2.88	−1.20	2.05	−1.68	12.90	+8.83	2.87	+0.53	0.74	−1.39	1.04	−1.12	§59.42	+23.56
Eldon	0.65	−1.11	2.45	+0.63	5.30	+2.26	5.71	+1.58	7.15	+2.85	5.45	+1.41	§0.83	−2.39	3.15	−0.51	*10.53*	+5.91	*2.80*	−0.90	§0.94	−1.51	1.05	−0.71	§46.04	+7.51
Eldorado Springs	§0.79	−1.43	§1.82	−0.65	6.42	+3.49	7.21	+2.98	6.69	+1.54	5.22	+0.26	3.03	−1.29	1.43	−1.68	8.52	+5.11	2.07	−0.49	0.71	−1.68	0.77	−1.42	§44.68	+4.73
Elijah	1.09	......	10.38	......	10.67	......	11.14	......	5.02	......	9.22	......	2.49	......	2.47	......	8.44	......	2.05	......	2.67	......	1.09	......	66.73	......
Forsyth	....	......	....	......	....	......	....	......	....	......	....	......	....	......	....	......	....	......	....	......	....	......	§0.58	......	.....	......
Fort Leonard Wood	§0.86	......	3.99	......	12.22	......	9.62	......	6.21	......	6.86	......	1.91	......	2.26	......	14.19	......	3.49	......	0.82	......	0.50	......	§62.93	......
Galena	0.86	−1.81	6.14	+4.20	9.25	+5.91	12.43	+8.31	6.73	+1.59	7.57	+2.81	4.26	+0.50	1.83	−2.27	7.82	+4.34	4.76	+1.28	0.24	−3.06	0.62	−1.55	62.51	+20.25
Granby	0.97	......	3.90	......	8.31	......	12.40	......	8.90	......	7.49	......	§4.07	......	2.26	......	13.60	......	2.97	......	0.40	......	§0.66	......	§65.96	......
Hailey	§0.88	−2.04	7.28	+5.48	13.14	+9.66	10.56	+6.17	8.05	+2.81	10.98	+5.38	6.44	+2.75	4.53	−0.41	9.93	+6.16	4.60	+0.30	0.38	−2.73	0.40	−1.92	§77.17	+31.61
Harrisonville	0.23	−1.34	§1.63	−0.10	4.22	+1.42	6.82	+3.44	6.22	+1.79	8.78	+3.99	2.31	−1.30	0.36	−3.82	8.18	+3.28	2.15	−0.82	0.44	−1.70	1.29	−0.16	§42.63	+4.68

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Monthly and Annual Precipitation for the Year 1945, with Departures from Normal—Continued from preceding page

Stations	January		February		March		April		May		June		July		August		September		October		November		December		Annual	
	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure
Southwest Div.-Cont.																										
Jefferson City ...(A)	0.97	−1.01	2.45	+0.69	5.20	+2.14	6.51	+2.53	7.12	+2.71	7.24	+3.01	3.28	+0.17	1.56	−2.27	9.42	+5.19	1.65	−1.72	0.90	−1.49	§1.24	−0.70	§47.54	+9.25
Jefferson City ...(B)	*0.87*	......	*2.34*	......	6.08	......	5.65	......	6.71	......	6.00	......	2.87	......	1.42	......	10.86	......	1.73	......	1.11	......	§1.27	......	§46.91	......
Joplin	0.89	−1.27	2.45	+0.77	5.51	+2.31	7.97	+3.27	6.98	+1.62	6.45	+0.45	1.38	−3.24	3.44	−0.53	14.62	+10.70	2.99	−0.46	0.20	−2.57	0.66	−1.23	53.54	+9.82
Lakeside	0.86	−1.32	2.34	+0.52	5.76	+3.01	5.91	+2.93	8.24	+3.97	7.26	+2.65	0.79	−1.36	3.22	+0.05	9.86	+5.46	3.29	+0.48	0.70	−3.01	0.75	−1.55	48.98	+11.83
Lamar............ ...	0.85	−0.98	2.45	+0.68	5.70	+2.51	9.07	+4.55	6.89	+1.63	10.10	+4.56	3.94	−0.28	3.25	−1.04	10.05	+5.50	1.71	−1.90	0.75	−1.78	0.79	−1.09	55.55	+12.36
Lebanon	§0.79	−1.85	§3.87	+1.68	8.36	+4.88	9.23	+4.88	5.36	+0.15	5.48	+0.31	2.49	−1.47	2.67	−1.82	15.03	+10.54	3.54	−0.23	0.58	−2.06	0.84	−1.44	§58.24	+13.57
Lexington	0.51	−1.01	1.54	−0.30	5.94	+3.16	§5.99	+2.19	4.19	−0.77	3.98	−0.57	3.47	−0.54	1.10	−2.42	7.63	+2.86	*1.27*	−1.76	*0.53*	−1.59	§2.20	+0.61	§38.35	−0.14
Lockwood...........	0.96	−0.90	2.23	+0.50	7.31	+3.75	8.52	+3.99	7.42	+2.10	6.78	+1.10	2.62	−2.14	2.81	−1.89	11.95	+7.17	1.88	−2.02	0.40	−2.44	0.63	−1.51	53.51	+7.71
Mansfield	*0.94*	......	*5.86*	......	*7.40*	......	§11.37	......	5.93	......	8.44	......	2.41	......	1.29	......	9.80	......	3.57	......	1.70	......	1.11	......	§59.82	......
Marshall	1.51	−0.14	§1.80	+0.02	§6.66	+3.74	§5.66	+1.77	5.54	+0.93	8.01	+3.21	1.69	−1.88	1.52	−2.38	11.38	+5.88	1.48	−1.65	0.85	−1.47	1.49	−0.26	§47.59	+7.77
Marshfield	§0.74	......	§4.02	......	8.00	......	12.18	......	3.82	......	4.42	......	0.66	......	2.25	......	10.02	......	2.13	......	0.75	......	0.54	......	§49.53	......
Mountain Grove.....	0.94	−1.79	6.37	+4.14	8.41	+4.51	10.27	+5.75	5.46	+1.00	9.71	+4.77	0.90	−2.99	1.25	−3.09	9.01	+4.95	2.78	−0.68	1.60	−1.35	1.10	−1.31	57.80	+13.94
Mount Vernon	1.01	−1.70	*3.42*	+0.82	§6.30	+2.41	12.33	+7.88	8.29	+2.78	7.47	+2.21	4.13	−1.06	0.48	−4.00	10.54	+6.70	2.97	−0.41	0.34	−2.60	0.93	−1.61	§58.21	+11.42
Neosho	1.06	−1.41	3.97	+1.98	7.34	+3.79	12.68	+8.12	7.74	+2.18	5.69	−0.28	3.45	−1.20	1.62	−2.75	16.12	+11.83	3.04	−0.65	0.36	−2.94	0.77	−1.51	63.84	+17.16
Nevada...	0.78	−1.09	1.83	+0.08	5.52	+2.65	7.00	+2.71	5.51	+0.58	6.87	+1.42	3.07	−0.59	4.50	+0.73	10.18	+5.87	1.34	−1.73	0.35	−1.80	0.81	−0.94	47.76	+7.93
Osceola.............	0.85	−1.28	2.10	+0.38	6.34	+3.15	7.04	+2.66	7.50	+2.03	3.68	−1.55	1.78	−2.08	1.09	−2.98	8.88	+4.07	2.11	−1.05	0.37	−2.41	0.77	−1.36	42.51	−0.42
Ozark	*0.96*	......	*5.44*	......	*8.20*	......	12.28	......	4.46	......	8.29	......	1.48	......	3.00	......	7.49	......	3.00	......	0.28	......	0.50	......	55.38	......
Ozark Beach	1.31	−1.66	8.85	+7.05	7.77	+4.68	13.82	+9.35	5.81	+0.59	8.59	+2.71	4.80	+1.41	1.39	−2.94	7.28	+4.09	2.24	−1.63	1.22	−1.55	0.72	−2.03	63.80	+20.07
Pierce City	1.14	......	4.54	......	9.64	......	12.35	......	8.67	......	8.64	......	3.75	......	1.91	......	9.83	......	2.67	......	0.26	......	0.78	......	64.18	......
Pleasant Hill........	0.39	......	§1.32	......	5.49	......	7.08	......	6.51	......	6.00	......	2.56	......	0.35	......	8.60	......	2.43	......	0.42	......	1.50	......	§42.65	......
Roby	0.68	......	4.63	......	11.53	......	12.06	......	4.85	......	5.06	......	1.75	......	2.34	......	11.15	......	3.66	......	1.01	......	0.90	......	59.62	......
St. Thomas.2¼ mi. SW	0.74	−1.74	2.28	+0.95	6.28	+3.77	§6.62	+3.46	6.33	+1.95	8.75	+3.43	§0.70	−1.64	§2.88	−0.81	11.43	+6.57	2.49	−1.40	§0.76	−2.44	§0.93	−1.38	§50.19	+10.72
Saunders Lookout...	1.08	......	§6.07	......	7.47	......	10.80	......	5.41	......	6.67	......	*2.41*	......	*1.72*	......	*8.25*	......	2.35	......	1.01	......	§0.95	......	§54.19	......
Sedalia	0.57	−1.68	§2.40	+0.26	5.86	+3.03	7.64	+3.91	5.52	+0.98	6.40	+1.12	1.41	−3.03	0.61	−4.57	10.83	+5.93	2.22	−0.46	0.67	−0.95	0.93	−0.35	§45.06	+4.19
Seligman.	1.15	−1.64	7.06	+5.22	8.07	+4.47	9.48	+5.42	6.92	+1.48	9.74	+4.79	3.54	−0.58	0.91	−3.09	10.68	+7.00	5.30	+1.84	0.43	−2.66	1.16	−1.04	64.44	+21.21
Seymour ..3½ mi. NE	0.98	−1.61	5.27	+3.09	6.48	+2.82	12.02	+7.70	4.68	−0.15	8.25	+2.91	1.50	−2.44	1.95	−2.29	9.92	+5.90	2.98	−0.50	0.81	−2.08	1.44	−0.82	56.28	+12.53
Shell Knob..3 mi. SE	1.04	......	§6.73	......	7.53	......	12.11	......	4.77	......	8.30	......	5.01	......	1.17	......	7.88	......	2.24	......	*0.37*	......	*0.69*	......	§57.84	......
Siloam Spgs. Lookout	1.27	......	7.76	......	8.06	......	10.38	......	5.10	......	12.39	... .	0.96	......	1.51	......	8.52	......	1.74	......	1.74	......	1.07	......	60.50	......
Springfield... ½ mi E	0.88	−1.46	4.28	+1.93	8.86	+5.47	12.15	+8.29	4.15	−1.04	7.25	+2.57	1.53	−2.68	1.81	−2.28	9.46	+5.94	3.07	+0.02	0.45	−2.34	0.51	−1.80	54.40	+12.62
Stover...............	§0.62	−1.06	§2.34	+0.91	5.49	+2.86	5.64	+1.82	5.59	+0.78	§6.34	+0.99	§1.24	−2.11	2.85	−1.07	9.97	+5.90	2.86	−1.16	§0.45	−2.33	§1.28	−0.86	§44.67	+4.67
Swan Tower Lookout	0.87	......	6.48	.....	*8.26*	......	9.91	......	6.90	......	7.01	......	0.97	......	2.94	......	8.30	......	*2.57*	......	*0.65*	......	*0.77*	......	§55.63	......
Sweet Springs.......	§0.66	......	1.63	......	5.50	......	5.33	......	4.90	......	8.59	......	1.04	......	1.15	......	11.82	......	1.74	......	0.80	......	1.16	......	§44.32	......
Tecumseh ..¼ mi. W	1.36	......	9.27	.....	*8.98*	......	10.06	......	§6.58	......	8.80	......	0.67	......	*1.76*	......	*8.50*	......	*2.04*	......	1.76	......	*1.12*	......	§60.90	......
Topaz	1.12	......	§7.79	......	9.09	......	9.15	......	6.36	......	8.06	......	0.91	......	1.44	......	6.84	......	2.10	......	1.32	......	0.88	......	§55.06	......
Vanzant ..3¾ mi. SE	1.27	......	8.28	......	7.26	......	10.13	......	6.39	......	10.21	......	2.26	......	0.67	......	8.68	......	2.19	......	1.21	......	1.05	......	59.60	......
Warrensburg.... ...	0.27	−1.51	1.91	+0.03	5.75	+2.66	5.25	+1.59	4.92	+0.20	7.70	+2.64	1.52	−2.45	1.51	−2.46	9.24	+4.46	1.52	−1.50	0.46	−1.76	1.14	−0.40	41.19	+1.50
Warsaw ....(A)	§0.77	−1.37	§1.98	−0.26	6.31	+2.76	6.76	+2.30	8.92	+3.92	5.94	+0.64	1.38	−2.63	1.13	−3.49	11.19	+6.16	2.32	−1.48	0.63	−2.01	0.72	−1.40	§48.05	+3.14
Warsaw ....(B)	§0.77	......	§1.74	......	§5.85	......	6.41	......	8.94	......	§6.35	......	0.77	......	§0.83	......	10.65	......	2.18	......	§0.36	......	§0.77	......	§45.62	......
Wasola..............	1.25	......	§9.45	.....	8.02	......	10.28	......	5.51	......	8.02	......	2.15	......	1.75	......	9.76	......	2.22	......	0.67	......	1.23	......	§60.31	......
Waverly.......	1.00	−0.54	§1.07	−0.59	4.52	+1.76	4.76	+1.05	3.52	−1.09	4.03	−0.93	1.48	−2.90	0.90	−2.79	8.81	+3.47	0.96	−2.34	0.50	−1.78	1.43	−0.15	§32.98	−6.83
Wilderness Lookout.	1.03	......	8.63	......	7.25	......	13.08	......	6.18	......	10.55	......	2.54	......	1.14	......	6.96	......	2.84	......	0.66	......	0.50	......	61.36	......
Southeastern Division																										
Advance ...¼ mile W	1.15	......	7.50	......	12.70	......	7.81	......	4.99	......	15.93	......	2.07	......	3.53	......	8.62	......	3.00	......	3.29	......	1.34	......	71.96	......
Alton(1)....10 mi. SE	1.05	......	8.91	......	11.00	......	8.86	......	5.58	......	11.11	......	1.53	......	1.85	......	9.64	......	1.59	......	2.20	......	1.22	......	64.54	......
Annapolis(1) 7 mi. W	§1.36	......	....	......	....	......	....	......	....	......	....	......	....	......	....	......	....	......	....	......	....	......	....	......	.....	......
Annapolis(2)4½mi.NW	1.30	......	9.23	......	10.22	......	9.54	......	4.02	......	14.53	......	1.06	......	4.07	......	8.82	......	4.54	......	2.09	......	1.07	......	70.49	......
Arcadia	0.64	−2.35	4.51	+2.06	10.16	+6.11	12.02	+7.20	4.46	+0.22	14.08	+9.94	1.62	−2.50	0.81	−3.56	8.46	+4.48	4.67	+1.22	2.75	−0.37	1.15	−1.70	65.36	+20.75
Banner..............	1.04	......	§6.04	......	....	......	....	......	....	......	....	......	....	......	....	......	....	......	....	......	....	......	....	......	.....	......
Belleview	1.19	......	§6.48	......	11.28	......	8.52	......	5.34	......	14.35	......	4.56	......	3.40	......	9.92	......	3.25	......	2.22	......	0.74	......	§71.25	......
Bernie..............	§1.87	......	9.87	......	9.74	......	12.48	......	8.39	......	16.78	......	3.79	......	2.75	......	7.73	......	3.57	......	5.10	......	2.87	......	§84.94	......
Birch Tree... ½ mi. E	§1.37	−1.81	10.31	+7.81	10.44	+6.46	9.27	+4.51	4.51	+0.16	10.01	+5.60	1.40	−2.18	3.32	−1.44	8.78	+5.10	1.95	−1.33	2.17	−0.99	1.00	−1.75	§64.53	+20.14
Black........9 mi NW	0.98	−1.72	6.62	+4.34	10.10	+6.21	11.40	+6.51	4.05	−0.46	16.50	+12.44	0.86	−2.83	0.78	−3.46	10.05	+6.19	2.45	−1.14	1.81	−0.91	0.86	−1.59	66.46	+23.58
Bloomfield	1.15	......	7.08	......	10.61	......	8.89	......	6.16	......	15.03	......	2.99	......	2.45	......	14.33	......	3.15	......	3.43	......	1.42	......	76.69	......
Bunker .... 4 mi. NW	1.08	......	6.93	......	11.29	......	9.81	......	4.60	......	13.19	......	1.99	......	1.28	......	11.34	......	2.43	......	2.10	......	0.32	......	66.36	......
Campbell...........	§2.58	−2.72	§6.53	+3.20	9.10	+3.18	9.53	+5.27	8.93	+3.92	13.00	+8.76	2.26	−1.22	2.46	−3.52	8.02	+4.15	3.36	+0.26	5.15	+1.45	2.39	−1.56	§73.31	+21.17
Cape Girardeau..(A)	1.72	−2.26	7.09	+4.69	12.75	+8.91	9.63	+5.75	4.47	+0.40	9.11	+4.81	2.23	−1.19	8.27	+4.37	10.76	+6.75	3.17	−0.13	3.23	−0.35	1.15	−2.52	73.58	+29.23
Cape Girardeau..(B)	....	......	....	......	....	......	....	......	....	......	....	......	....	......	....	......	....	......	....	......	....	......	1.59	......	.....	......
Caruthersville...(A)	3.14	−2.05	5.65	+2.27	9.33	+4.87	6.75	+2.23	5.60	+1.16	9.21	+5.40	2.97	−0.32	3.05	−0.64	7.13	+3.92	6.15	+2.79	4.92	+1.07	2.52	−2.08	66.42	+18.68
Caruthersville ...(B)	....	......	....	......	....	......	....	......	....	......	....	......	....	......	....	......	7.15	......	6.03	......	5.07	......	2.45	......	.....	......
Centerville (1)	1.38	−1.27	8.09	+4.89	9.68	+5.94	10.48	+5.26	4.19	−0.17	14.65	+9.46	0.62	−1.68	1.35	−1.10	10.25	+6.62	2.42	−1.28	2.82	−0.62	0.96	−1.81	66.89	+24.24
Centerville (2)	1.33	......	7 92	......	9.80	......	9.89	......	4.46	......	13.68	......	1.21	......	1.21	......	9.73	......	2.76	......	2.84	......	0.87	......	65.70	......
Cook Station	§1.34	......	5.27	......	8.94	......	12.43	......	5.79	......	13.12	......	2.87	......	0.47	......	10.23	......	3.22	......	1.30	......	0.73	......	§65.71	......
Crane Mountain	1.33	......	7.83	......	9.59	......	12.34	......	3.94	......	12.52	......	1.28	......	1.49	......	10.45	......	5.95	......	2.63	......	1.04	......	70.39	......
Crystal City	0.83	−1.46	§4.19	+2.32	10.89	+8.21	7.10	+3.46	5.15	+0.99	4.94	−0.48	1.43	−1.78	3.42	+0.99	6.84	+3.46	2.02	−0.75	1.86	−1.56	1.59	−0.95	§50.26	+12.45
Cuba	0.93	......	4.55	......	10.59	......	7.44	......	5.81	......	11.41	......	2.20	......	1.29	......	10.56	......	2.63	......	1.25	......	0.95	......	59.61	......
Deering	§3.52	......	6.04	......	8.92	......	8.64	......	5.31	......	10.13	......	1.91	......	4.22	......	5.60	......	5.02	......	4.57	......	2.60	......	§66.48	......
De Soto.............	0.82	......	4.87	......	11.02	......	6.84	......	6.31	......	4.58	......	1.73	......	1.40	......	7.03	......	2.39	......	1.73	......	1.43	......	50.15	......
Dexter	2.26	−2.78	8.28	+5.20	11.02	+6.14	9.72	+5.13	6.41	+1.62	12.25	+7.84	2.70	−0.42	3.86	−0.26	9.85	+5.33	3.31	−0.95	4.21	+0.29	2.09	−1.90	75.96	+25.24
Doniphan (1)........	1.07	−3.03	9.05	+5.74	11.66	+7.27	10.03	+5.10	8.00	+3.64	13.41	+9.05	0.90	−3.14	2.81	−1.40	10.82	+7.21	1.54	−1.52	3.60	+0.18	1.87	−1.85	74.79	+27.25
Doniphan (2)........	§1.79	......	9.50	......	§9.84	......	10.40	......	7.17	......	12.11	......	0.78	......	3.08	......	8.63	......	2.41	......	3.19	......	1.42	......	§70.32	......
East End	1.06	......	5.79	......	11.22	......	9.99	......	5.50	......	10.75	......	2.12	......	2.11	......	8.59	......	3.00	......	2.02	......	0.74	......	62.89	......
Eastwood Lookout ..	1.10	......	8.97	......	12.05	......	8.71	......	4.59	......	10.13	......	0.58	......	3.90	......	9.31	......	2.32	......	2.54	......	§0.94	......	§65.14	......
Ellington	§1.53	......	9.35	......	12.27	......	9.84	......	4.84	......	14.16	......	1.86	......	1.55	......	9.31	......	4.06	......	2.77	......	1.25	......	§72.79	......
Ellsinore Lookout...	§0.88	......	7.91	......	10.45	......	*7.98*	......	4.23	......	9.56	......	0.30	......	2.24	......	7.92	......	1.08	......	2.25	......	§0.87	......	§55.67	......
Farmington..........	1.28	−1.86	5.94	+3.42	10.39	+6.47	8.01	+3.49	3.82	−1.25	8.91	+5.03	3.60	+0.04	1.52	−2.78	10.01	+6.21	4.10	+0.66	3.11	+0.29	0.95	−1.85	61.64	+17.87
Fisk	1.73	−3.28	7.86	+4.60	9.57	+4.75	6.56	+2.86	5.57	+2.07	11.63	+7.77	1.01	−2.37	3.18	−0.07	11.33	+7.09	2.13	−0.83	2.93	+0.27	1.41	−2.06	64.91	+20.80
Fredericktown	1.35	−2.36	7.20	+4.57	9.92	+6.27	11.46	+6.98	3.97	−0.12	12.16	+7.93	1.82	−1.40	1.51	−2.75	10.40	+6.44	7.08	+2.69	2.40	−0.92	0.74	−2.43	70.01	+24.90
Gerald	1.10	......	2.94	......	7.52	......	5.89	......	6.63	......	5.52	......	4.74	......	1.04	......	11.39	......	1.82	......	0.88	......	§1.40	......	§50.87	......
Greenville(1)........	§0.33	−2.89	8.88	+6.16	11.71	+7.45	7.44	+2.74	4.62	+0.44	15.57	+10.88	1.90	−1.86	2.95	−1.33	10.93	+7.61	3.57	+0.29	2.70	−0.66	1.17	−2.19	§71.77	+26.54
Greenville(2)........	*1.08*	......	9.47	......	12.50	......	8.28	......	4.27	......	17.10	......	1.59	......	3.05	......	10.34	......	3.42	......	2.56	......	1.25	......	§74.91	......
High Lookout	*1.35*	......	9.85	......	10.86	......	9.48	......	5.26	......	9.60	......	2.04	......	3.62	......	8.60	......	2.15	......	2.08	......	0.94	......	§65.83	......
Jackson	1.83	−2.11	8.09	+5.21	15.91	+11.74	9.19	+4.85	5.08	+0.81	8.28	+3.59	0.76	−2.78	6.80	+2.72	12.19	+8.17	3.97	+0.45	4.74	+1.36	§2.31	−1.12	§79.15	+32.89
Jefferson Barracks ..	0.88	−1.38	3.39	+0.76	8.41	+5.57	5.46	+2.26	5.14	+0.79	5.23	+0.51	2.32	−1.97	3.20	−0.40	7.93	+5.06	1.43	−1.68	1.67	−0.82	1.49	−0.68	46.55	+7.02
Jerome	§1.35	−0.63	§3.28	+0.96	8.53	+5.68	7.64	+3.81	6.57	+2.26	12.76	+9.01	1.48	−1.82	0.70	−3.58	12.98	+9.39	3.47	+1.45	§0.67	−1.80	§1.37	−0.46	§60.80	+24.27
Koshkonong	1.32	−2.30	9.85	+6.99	12.68	+8.58	9.53	+4.51	6.15	+1.60	13.47	+8.97	1.55	−2.22	2.16	−2.00	11.19	+7.55	2.24	−0.98	2.63	−0.63	1.18	−2.30	73.95	+27.77
Leeper..............	0.99	−2.91	7.39	+4.74	11.50	+7.86	7.11	+2.19	5.25	+0.85	13.39	+7.95	1.24	−2.08	2.19	−1.92	11.62	+8.39	4.06	+0.15	2.51	−0.84	1.45	−2.33	68.73	+22.05
Licking(1)... 4 mi. N	0.64	−1.33	5.48	+3.07	8.65	+5.52	7.46	+2.78	4.82	−0.31	6.23	+1.67	1.27	−1.30	0.89	−1.45	11.26	+6.72	2.07	−1.24	1.56	−1.08	§0.53	−1.85	§50.86	+11.20
Licking(2)	*0.86*	......	*5.96*	......	*9.21*	......	*9.45*	......	4.44	......	5.51	......	0.67	......	1.16	......	9.38	......	3.03	......	1.47	......	0.62	......	§51.76	......
Macedonia Lookout.	1.58	......	8.72	......	10.50	......	8.37	......	6.23	......	11.92	......	1.09	......	2.91	......	§9.75	......	1.41	......	2.49	......	1.41	......	§66.38	......
Malden ...4 mi. NNW	2.14	......	6.55	......	9.12	......	9.27	......	6.88	......	13.98	......	1.61	......	3.12	......	7.01	......	2.68	......	4.00	......	1.81	......	68.17	......
Marble Hill	1.38	−2.49	6.07	+2.99	14.71	+10.43	10.50	+6.01	5.87	+1.38	14.62	+10.14	3.01	−1.01	5.06	+0.94	8.45	+4.57	3.60	+0.18	2.71	−0.84	1.73	−1.94	77.71	+30.36
Meramec Park	0.64	−1.39	4.00	+1.55	8.50	+5.86	6.26	+1.85	5.95	+0.15	5.79	−0.16	3.33	+0.41	0.58	−2.41	8.79	+5.67	1.85	−1.24	1.20	−2.09	1.07	−1.63	47.96	+6.57
Morehouse	1.66	−3.25	6.33	+2.59	8.80	+3.89	8.86	+4.01	7.08	+2.80	15.45	+11.22	3.00	−0.01	2.03	−1.88	7.14	+3.22	2.27	−1.26	4.52	+0.89	2.01	−2.21	69.15	+20.01
Moselle.............	§1.31	......	3.47	......	9.08	......	6.71	......	5.63	......	4.59	......	2.21	......	1.74	......	9.84	......	2.05	......	1.64	......	§1.07	......	§49.34	......
New Madrid.	2.75	−2.74	5.47	+1.72	9 62	+4.79	8.15	+3.57	7.22	+2.79	12.51	+8.01	2.01	−1.96	0.55	−3.55	5.58	+1.99	2.84	−0.93	4.08	+0.05	2.85	−1.76	63.63	+11.98
Oates Tower.........	1.73	......	6.71	......	9.18	......	9.37	......	§4.41	......	*14 00*	......	*1.52*	......	*1.11*	......	*9.65*	......	*3.94*	......	1.34	......	0.73	......	§63.62	......

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Monthly and Annual Mean Temperatures for the Year 1945, with Departures from Normal

Stations	January		February		March		April		May		June		July		August		September		October		November		December		Annual	
	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure
Northern Division																										
Albany	25.0[a]	......	31.6	......	49.4	......	51.9	......	58.0	......	66.4	......	73.4	......	75.7[d]	......	67.1	......	55.2	......	42.7	......	22.9	......	51.6	......
Bethany	25.1	+ 0.3	31.4	+ 3.9	49.2	+ 8.9	52.4	+ 0.9	53.5[h]	− 9.0	66.4	− 5.6	74.2	− 2.1	75.7	+ 0.7	66.2	− 0.9	54.4	− 0.4	41.5	− 1.3	23.1	− 7.0	51.1§	− 1.0
Brookfield	24.8	......	31.4	......	49.4	......	53.4	......	59.2	......	67.9	......	75.2	......	77.0	......	67.9	......	54.9	......	43.8	......	21.5	......	52.2	......
Brunswick	26.8	+ 0.1	33.0	+ 3.2	49.6	+ 7.7	53.4	− 0.8	58.6	− 5.6	67.2	− 5.8	74.6	− 1.5	76.6	+ 2.4	68.0	+ 1.0	54.6	− 0.7	43.2	+ 1.6	22.8	− 7.8	52.4	− 0.5
Canton, Lock & Dam No. 20	22.4	......	29.9	......	48.6	......	53.5	......	58.2	......	67.4	......	74.0	......	75.0	......	66.3	......	54.6	......	42.4	......	22.7	......	51.2	......
Chillicothe	25.2	+ 0.8	32.3	0.0	47.2	+ 5.5	52.8	+ 0.8	58.0	− 4.9	66.6	− 5.7	74.6	− 2.4	76.3	+ 0.8	67.2	− 0.3	54.2	− 0.8	41.8	+ 0.5	22.4	− 7.5	51.6	− 1.0
Clifton Hill	25.9	− 2.2	32.6	+ 2.4	50.0	+ 7.8	54.4	+ 0.9	59.6	− 4.0	67.9	− 4.5	74.8	− 1.6	76.5	+ 0.5	69.9	+ 1.3	56.4	− 0.3	44.4	+ 1.0	24.4	− 6.6	53.1§	− 0.4
Columbia	28.2	− 2.7	34.1	+ 1.7	52.4	+ 9.5	55.0	+ 0.2	59.6	− 5.4	69.1	− 4.3	74.9	− 2.4	77.2	+ 0.9	69.0	− 0.4	56.4	− 0.5	45.9	+ 1.8	26.4	− 7.6	54.0	− 0.8
Conception	25.3	+ 0.6	31.2	+ 3.0	49.4	+ 9.6	51.2	− 1.0	58.3	− 3.8	67.0	− 4.5	75.0	− 1.6	77.0	+ 2.3	68.0	+ 0.8	55.4	0.0	42.0	+ 0.6	22.1	− 7.1	51.8	− 0.1
Edgerton	28.2	+ 1.3	33.4	− 0.9	51.4	+ 8.2	53.8	0.0	59.5	− 3.5	67.3	− 4.6	74.3	− 1.8	77.2	+ 2.1	69.4	+ 1.5	56.6	+ 0.3	44.6	+ 2.8	24.8	− 5.6	53.4§	0.0
Elsberry	27.9	− 3.7	34.8	+ 1.0	52.7	+ 9.2	55.0	+ 1.4	58.9	− 5.8	68.1	− 6.3	73.4	− 6.0	74.2	− 2.3	67.2	− 2.1	55.3	− 2.2	44.6	+ 1.2	24.8	− 9.6	53.1§	− 2.1
Fayette	28.3	+ 1.3	31.4	+ 3.8	51.6	+ 9.7	54.2	0.0	59.3	− 4.5	67.8	− 5.0	73.5	− 3.7	75.7	− 0.2	68.4	+ 0.3	55.2	− 1.2	44.8	+ 2.6	24.8	− 6.3	53.2	− 0.2
Fulton	27.0	− 2.5	32.2	− 0.9	50.2	+ 6.1	53.8	− 0.8	59.7	− 4.9	68.4	− 4.8	74.4	− 3.3	76.0	− 0.4	68.2	− 0.7	56.1	− 1.3	44.5	+ 0.3	25.0	− 8.5	53.0	− 1.8
Grant City	23.9	− 0.9	30.0	+ 1.4	48.5	+ 7.2	51.0	− 1.2	57.2	− 4.8	65.6	− 5.2	73.8	− 2.4	75.1	+ 0.2	67.3	+ 0.3	51.6	− 0.5	40.9	− 1.0	22.1	− 5.9	50.8	− 1.1
Hannibal	23.2	− 3.9	32.0	+ 2.3	50.9	+ 9.9	54.2	+ 0.8	58.6	− 5.0	67.4	− 5.1	74.2	− 2.6	75.4	+ 0.4	66.6	− 1.1	54.8	− 1.2	42.8	+ 0.7	23.2	− 8.3	51.9	− 1.1
Kansas City Airport	30.6	+ 2.4	35.0	+ 3.8	51.8	+ 9.1	54.4	− 0.4	60.8	− 4.0	68.9	− 4.7	77.4	− 0.7	79.7	+ 3.1	69.8	+ 0.9	57.2	− 0.5	46.2	+ 2.5	25.8	− 6.7	54.8	+ 0.4
Kansas City University	31.6	......	35.8	......	51.9	......	54.7	......	60.3	......	69.0	......	75.5	......	79.0	......	70.2	......	57.5	......	47.2	......	26.8	......	55.0	......
Kidder	25.3	− 0.7	31.6	+ 3.2	48.6	+ 7.8	51.2	− 1.0	57.8	− 4.8	66.5	− 5.3	73.7	− 2.9	76.0	+ 0.6	67.0	− 0.3	53.9	− 1.9	41.4	− 0.4	22.0	− 7.2	51.2	− 1.1
Kirksville	23.1	− 1.7	31.4	+ 4.3	50.8	+11.1	54.2	+ 2.3	59.4	− 2.9	66.8	− 4.9	74.2	− 1.8	76.2	+ 2.2	67.0	+ 0.7	54.4	− 0.3	42.0	+ 1.4	22.4	− 7.2	51.8	+ 0.2
Knoxville	....	......	....	......	....	......	....	......	....	......	....	......	....	......	....	......	....	......	....	......	43.2	......	23.4	......	....	......
Lawson	28.1	......	33.3	......	50.2	......	52.6	......	58.8	......	67.0	......	74.4	......	77.0	......	68.8	......	56.0	......	43.6	......	24.5	......	52.9	......
Louisiana	23.9	− 4.2	32.0	+ 1.1	49.6	+ 6.1	54.4	+ 0.4	58.0	− 5.7	67.2	− 4.9	72.0	− 4.4	74.0	− 0.9	68.8	+ 0.8	55.6	− 0.6	44.8	+ 0.7	25.6	− 6.2	52.2	− 1.4
Macon	23.8	− 3.7	31.0	+ 1.4	48.8	+ 6.6	52.2	− 0.9	57.6	− 5.9	67.0	− 5.4	73.4	− 3.8	75.6	− 0.5	66.0	− 1.9	54.4	− 1.9	42.0	− 0.8	22.0	− 8.1	51.2	− 2.0
Maryville	23.7	+ 0.8	29.0	+ 3.2	47.6	+ 9.7	50.0	− 0.8	56.8	− 4.5	65.2	− 4.6	74.2	− 1.5	75.0	+ 1.2	66.2	+ 0.6	53.8	+ 0.3	41.0	+ 1.6	21.6	− 5.2	50.3	0.0
Memphis	20.0	......	27.8	......	47.6	......	51.2	......	63.2	......	65.8	......	73.5	......	75.5	......	65.4	......	53.0	......	40.0	......	20.6	......	50.3	......
Mexico	26.2	− 1.8	31.8	+ 1.7	50.0[b]	+ 8.0	53.4	− 0.4	58.9	− 5.1	67.2	− 6.0	73.2	− 4.1	75.4	− 0.6	67.6	− 0.9	54.8	− 1.5	43.2	+ 0.3	23.1	− 8.7	52.1	− 1.6
Moberly.........3½ mi. NE	24.6	......	31.8	......	50.0	......	54.1	......	58.8	......	67.2	......	73.3	......	75.4	......	66.8	......	54.9[a]	......	44.0	......	22.4	......	51.9	......
New Florence.... 1 mile SE	26.0	......	32.1	......	50.8	......	54.0	......	57.9	......	67.4	......	72.8	......	74.8	......	66.8	......	54.5	......	43.6	......	25.0	......	52.1	......
Oregon	27.6	+ 3.5	32.8	+ 4.0	50.7	+11.1	52.8	+ 0.1	59.2	− 4.0	67.4	− 4.8	75.3	− 0.3	77.0	+ 1.8	68.1	+ 1.0	56.0	+ 0.9	43.9	+ 3.4	23.4	− 5.3	52.8	+ 0.9
St. Charles	27.1	− 3.9	34.5[a]	+ 1.2	52.5	+ 8.0	56.7	+ 1.1	60.8	− 2.3	69.8	− 4.1	75.6	− 2.5	76.8	0.0	69.4	+ 1.1	57.2	− 1.0	46.0	+ 0.7	27.3	− 7.6	54.5	− 0.7
St. Joseph	28.5	+ 3.0	33.5	+ 3.9	50.6	+10.1	52.6	− 0.9	59.6	− 4.6	67.2	− 6.5	76.0	− 1.4	77.6	+ 1.1	68.0	− 0.4	56.0	0.0	44.0	+ 2.5	24.2	− 5.4	53.2	+ 0.2
Saverton, Lock & Dam 22	24.6	......	32.2	......	51.0	......	55.0	......	58.3	......	67.5	......	74.6	......	76.4	......	67.4	......	56.4	......	45.0	......	25.4	......	52.8	......
Shelbina	25.0	......	33.0	......	50.4[a]	......	53.8[b]	......	59.3[b]	......	67.7	......	74.5[b]	......	75.3	......	66.8	......	55.0[a]	......	42.8	......	22.6	......	52.2	......
Steffenville	23.5	− 3.9	32.0	+ 2.3	50.5	+ 8.3	53.8	+ 0.7	58.4	− 5.4	67.8	− 4.8	74.2	− 3.6	75.7	− 0.8	67.4	− 1.6	54.6	− 2.8	42.8	− 0.7	22.8	− 7.8	52.0	− 1.6
Tarkio	25.0	+ 2.1	28.4	− 0.6	46.5	+ 6.4	49.9	− 2.3	57.2	− 5.4	65.5	− 6.3	74.4	− 2.4	75.0	− 0.2	65.7	− 0.6	52.8	− 2.0	40.4	+ 0.3	19.8	− 6.6	50.0	− 1.5
Trenton	26.4	+ 0.1	32.7	+ 3.3	50.2	+ 9.1	54.0	+ 1.3	59.1	− 4.4	67.0	− 5.2	74.8	− 2.0	76.6	+ 1.4	68.6	+ 1.4	55.9	0.0	43.6	+ 1.4	24.2	− 5.4	52.8	+ 0.1
Unionville	21.6	− 1.9	28.5	+ 1.8	47.0	+ 8.1	50.7	− 0.3	56.5	− 5.6	65.8	− 5.5	73.0	− 3.5	74.9	+ 0.1	65.0	− 2.1	53.0	− 2.2	39.2	− 1.1	20.2	− 7.4	49.6	− 1.6
Vandalia	26.8	......	34.0	......	52.0	......	53.9	......	58.6	......	70.1[c]	......	73.2	......	75.6	......	66.2	......	55.0	......	43.6	......	24.0	......	52.8§	......
Warrenton	27.8	− 1.4	35.4	+ 4.5	53.6	+11.1	56.2	+ 1.4	60.2[a]	− 4.7	69.4	− 4.0	73.3	− 4.5	75.8	− 0.7	68.9	− 0.1	56.0	0.0	44.9	+ 1.7	26.9	− 5.5	54.0	− 0.2
Keokuk, Iowa	22.0	− 2.9	30.4	+ 2.1	51.2	+12.3	53.2	+ 0.9	58.4	− 5.4	67.8	− 4.7	75.2	− 1.7	76.0	+ 1.0	66.2	− 1.3	55.0	− 0.4	42.1	+ 1.0	23.0	− 6.6	51.7	− 0.5
Division means	**25.6**	**− 1.0**	**32.1**	**+ 2.3**	**50.1**	**+ 8.7**	**53.3**	**0.0**	**58.7**	**− 4.8**	**67.4**	**− 5.0**	**74.3**	**− 2.5**	**76.1**	**+ 0.6**	**67.6**	**− 0.1**	**55.2**	**− 0.8**	**43.2**	**+ 0.9**	**23.5**	**− 7.0**	**52.3**	**− 0.5**
Southwestern Division																										
Anderson......1½ miles SW	33.2	− 2.7	37.0	+ 1.3	52.4	+ 3.6	55.6	− 1.1	60.2	− 5.5	69.6	− 3.1	72.9[a]	− 4.4	74.2	− 3.5	69.2	− 1.8	57.0	− 1.7	48.2	− 1.1	30.4	− 7.1	55.0	− 2.2
Appleton City	31.8	+ 0.5	36.2	+ 2.3	52.4	+ 7.3	55.4	− 0.7	60.2	− 4.8	69.0	− 5.4	74.8	− 3.4	76.8	− 1.0	69.8	− 0.6	57.2	− 1.7	47.3	+ 1.3	27.8	− 6.8	54.9	− 1.1
Bolivar	33.3	− 0.6	37.2	+ 2.0	54.0	+ 7.7	56.5	+ 0.2	61.7	− 3.1	70.4	− 2.4	75.4	− 1.9	78.4	+ 1.5	70.9	+ 1.0	58.6	0.0	48.3	+ 1.5	30.4	− 5.2	56.3	+ 0.1
Boonville	28.0	......	32.8	......	50.8	......	53.4	......	59.4	......	67.8	......	74.4	......	76.2	......	66.9	......	55.5	......	44.6	......	23.8	......	52.8	......
Carthage	35.2	......	39.6	......	54.4	......	57.4	......	63.0	......	71.8	......	76.0	......	77.8	......	70.2	......	59.0	......	49.6	......	31.9	......	57.2	......
Clinton	31.2	− 0.5	36.4	+ 2.8	52.8[a]	+ 7.8	52.8	− 3.5	61.1[d]	− 4.4	69.6	− 4.2	75.4	− 2.9	78.2	+ 0.6	70.0	− 0.8	56.5	− 2.4	46.8	− 0.2	27.2	− 7.5	54.8	− 1.5
Eldon	31.8	+ 0.7	36.2	+ 3.1	53.5	+ 9.9	56.6[a]	+ 1.2	59.6[e]	− 4.6	69.7	− 3.3	74.8	− 2.4	76.8	+ 0.4	69.0	− 0.4	56.7	− 0.7	43.4[h]	− 1.4	29.2	− 5.1	54.8§	− 0.2
Fort Leonard Wood	30.4	......	34.9	......	51.8	......	56.0	......	61.7[a]	......	69.6[b]	......	74.9[a]	......	76.5[d]	......	69.0[d]	......	57.3	......	48.1[b]	......	29.1	......	54.9§	......
Harrisonville	29.4	+ 2.1	33.0	+ 2.3	49.5	+ 8.2	53.0	− 0.9	59.1	− 4.7	67.4	− 5.7	74.2	− 3.5	77.6	+ 1.7	68.2	− 0.3	55.6	− 0.5	44.3	+ 1.8	24.0	− 7.3	52.9	− 0.6
Jefferson City	29.2	− 0.6	34.7	+ 2.6	52.0	+ 8.4	55.1	− 0.9	59.8	− 4.9	68.8[d]	− 5.0	74.0	− 4.1	76.7	0.0	70.0	+ 0.7	56.2	− 0.6	46.0	+ 1.9	27.2	− 5.7	54.1	− 0.7
Joplin	35.5	+ 0.6	39.1	+ 3.3	55.7	+ 7.1	58.2	− 0.3	63.6	− 2.7	73.4	0.0	78.4	+ 0.3	79.6	+ 2.3	72.3	+ 0.2	60.5	+ 0.3	51.3	+ 3.0	32.4	− 6.8	58.3	+ 0.6
Lakeside	31.0	− 2.0	34.0	0.0	50.8	+ 6.2	55.8	+ 0.4	60.0	− 6.1	69.2	− 5.8	73.8	− 6.7	75.3	− 3.8	68.4	− 2.6	57.4	− 2.4	47.6	+ 3.1	29.4	− 7.9	54.4	− 2.3
Lamar	32.6	+ 0.5	35.3	0.0	51.6	+ 5.6	51.0	− 2.6	59.8	− 5.8	69.6	− 4.6	74.6	− 3.8	76.0	− 1.7	68.8	− 2.0	57.2	− 1.7	48.0	+ 1.7	29.1	− 6.1	54.7	− 1.7
Lebanon	32.8	+ 0.3	37.0	+ 2.6	54.5	+ 9.5	56.7	+ 1.2	59.2	− 5.7	68.4	− 4.3	72.6	− 4.3	74.9	− 1.2	68.4	− 1.0	57.8	+ 0.1	47.4	+ 1.8	30.2	− 4.6	55.0	− 0.5
Lexington	30.1§	+ 2.3	34.3	+ 3.3	51.6	+ 8.2	55.7	+ 1.1	60.6	− 3.8	69.7	− 3.2	77.0	− 0.4	79.2	+ 3.0	69.6	+ 0.8	57.2	− 0.3	46.6	+ 2.4	26.0	− 6.0	54.8§	+ 0.6
Lockwood	34.4	+ 1.1	38.5	+ 1.5	55.2	+ 7.9	58.2	+ 1.7	63.6	− 0.8	70.6	− 3.0	76.2	− 1.4	78.6	+ 1.4	71.4	+ 0.5	59.4	+ 0.7	49.8	+ 2.8	32.0	− 4.1	57.3	+ 0.7
Marshall	30.9[c]	+ 3.0	36.4[b]	+ 5.5	53.3[a]	+10.3	56.2	+ 1.4	60.8[a]	− 3.4	68.9[b]	− 4.3	76.2[e]	− 1.3	78.0[a]	+ 2.0	71.2	+ 2.4	59.0	+ 2.4	49.2	+ 4.0	27.6	− 4.3	55.6	+ 1.4
Mountain Grove	32.8	0.0	37.8	+ 2.7	53.8	+ 8.4	56.6	+ 1.7	60.4	− 3.4	69.0	− 2.8	75.2	− 1.2	77.2	+ 1.7	70.4	+ 1.5	57.6	0.0	47.2	+ 1.3	31.4	− 3.3	55.8	+ 0.6
Mount Vernon	32.9§	− 0.4	38.6	+ 4.1	54.0	+ 8.1	56.2§	+ 0.1	61.0[c]	− 4.8	70.0	− 3.3	74.6	− 3.1	76.4	− 0.3	69.8	− 0.7	57.8	− 0.8	48.6	+ 2.8	30.6	− 4.9	55.9§	− 0.2
Neosho	36.1	+ 1.0	40.6	+ 3.0	51.7	+ 6.6	58.5	+ 0.2	63.9	− 2.1	72.4	− 1.4	76.2	− 1.3	77.2	+ 0.1	71.7	+ 1.2	59.1	− 0.1	50.0	+ 2.7	33.7	− 3.4	57.8	+ 0.5
Nevada	33.6	+ 1.7	37.7	+ 3.8	54.3	+ 9.4	56.8	+ 1.1	63.0	− 1.5	71.6	− 1.9	77.0	− 2.6	78.8	+ 1.7	71.8	+ 2.3	59.6	+ 2.0	48.8	+ 4.0	30.0	− 5.3	56.9	+ 1.2
Ozark Beach	35.0	......	37.2	......	53.4	......	58.3	......	62.5	......	71.2	......	76.7	......	77.8	......	70.7	......	58.8	......	49.1	......	32.6	......	56.9	......
Sedalia	30.8	+ 4.4	36.2	+ 5.8	53.6	+10.8	56.0	+ 0.7	60.9	− 4.4	69.4	− 4.8	75.8	− 1.7	78.2	+ 1.7	70.4	+ 1.2	57.8	+ 0.1	46.6	+ 3.3	27.2	− 6.7	55.2	+ 0.8
Seligman	34.7[a]	− 0.4	40.5[c]	+ 3.0	54.4[d]	+ 7.8	57.8[c]	+ 1.2	63.3[c]	− 1.2	71.0	− 1.4	74.2	− 2.5	76.8	+ 0.6	70.8	+ 1.2	59.6	+ 0.6	49.9[a]	+ 2.6	33.1	− 4.2	57.2	+ 0.6
Seymour...... 3½ miles NE	32.0	− 2.0	34.1	− 0.9	50.2	+ 4.8	53.1	− 2.6	57.0	− 6.7	67.3	− 4.4	72.4	− 3.1	74.4	− 0.6	67.4	− 1.4	54.6	− 2.8	44.6	− 1.3	28.8	− 6.6	53.0	− 2.3
Springfield....... ½ mile E	32.0	− 0.3	35.5	+ 1.5	52.0	+ 8.4	55.4	+ 0.2	59.6	− 4.1	68.8	− 2.9	75.1	− 1.1	76.6	+ 1.6	69.4	+ 1.0	56.7	− 0.9	47.2	+ 2.2	29.5	− 6.0	54.8	− 0.1
Sweet Springs	30.0	......	35.2	......	52.6	......	56.2	......	60.0	......	68.8	......	74.8	......	77.8	......	67.8	......	56.8	......	46.4[c]	......	26.2	......	54.4	......
Warrensburg	31.2[a]	+ 2.5	36.1[a]	+ 3.6	53.0[a]	+ 9.0	57.0[a]	+ 0.9	61.4	− 3.6	69.4	− 4.5	77.0[c]	− 1.8	79.0	+ 1.9	71.6	+ 1.4	58.1	+ 0.1	47.7[a]	+ 2.7	26.6	− 6.8	55.7	+ 0.5
Warsaw	32.9	0.0	37.5	+ 1.9	54.4	+ 7.4	57.9	+ 1.2	62.4	− 3.1	70.3	− 3.5	75.5	− 2.8	78.5	+ 0.9	72.2	+ 1.7	58.6	− 0.4	48.4	+ 1.2	29.8	− 5.9	56.5	− 0.1
Wasola	34.7	......	38.8	......	55.5	......	58.2	......	61.7	......	69.8	......	76.0	......	77.7	......	69.2	......	58.0	......	48.8	......	32.8	......	56.8	......
Division means	**32.3**	**+ 0.5**	**36.5**	**+ 2.5**	**53.0**	**+ 7.8**	**56.2**	**+ 0.1**	**61.0**	**− 4.0**	**69.7**	**− 3.5**	**75.2**	**− 2.6**	**77.2**	**+ 0.4**	**69.9**	**+ 0.3**	**57.8**	**− 0.4**	**47.7**	**+ 1.8**	**29.3**	**− 5.7**	**55.5**	**− 0.2**
Southeastern Division																										
Advance .... ¼ mile W	32.0	......	37.8	......	54.4	......	58.4	......	61.4	......	71.9	......	75.2	......	76.7	......	69.9	......	56.4	......	47.4	......	30.2	......	56.0	......
Arcadia	30.6	− 1.3	36.4	+ 2.3	53.6	+ 9.0	57.6	+ 2.3	60.0	− 4.1	69.9	− 1.9	73.4	− 2.4	76.0	+ 1.7	69.4	+ 1.8	56.0	0.0	46.4	+ 2.5	29.3	− 5.0	54.9	+ 0.4
Birch Tree........ ½ mile E	32.5[a]	− 2.0	37.4[c]	+ 1.1	54.2[c]	+ 6.9	59.2[d]	+ 2.1	60.6[d]	− 4.4	69.5[b]	− 3.2	74.8[b]	− 1.8	76.6[c]	+ 0.5	70.2	+ 0.4	57.2	− 1.2	46.1[a]	− 0.5	30.6[a]	− 5.8	55.7	− 0.7
Black...........9 mi. NW	29.8	− 2.8	36.2	+ 1.9	51.6	+ 6.6	55.3	+ 0.3	60.1	− 3.9	68.9	− 3.0	71.8	− 3.8	74.0	− 0.5	68.3	+ 0.5	54.4	− 1.5	46.6	+ 1.9	29.2[a]	− 5.6	53.8	− 0.9
Campbell	35.8	− 1.9	41.5	− 0.6	57.2	+ 9.2	60.8[a]	+ 2.1	65.6	− 1.7	74.6	− 0.9	78.6[d]	− 1.8	78.2	+ 1.0	72.8[a]	+ 1.2	59.0[c]	− 1.1	52.5[f]	+ 4.9	32.6[d]	− 5.8	59.1§	+ 0.4
Cape Girardeau	....	......	....	......	....	......	....	......	....	......	....	......	....	......	....	......	....	......	....	......	....	......	32.7	......	....	......
Caruthersville	35.6	− 3.5	40.2	− 0.1	56.6	+ 5.2	60.9	+ 0.7	63.0	− 6.8	73.0	− 5.4	77.7	− 3.6	77.4	− 2.9	72.0	− 2.5	57.6	− 4.6	52.2	+ 1.8	36.1	− 4.8	58.5	− 2.2
Crystal City	30.2	− 1.2	37.8	+ 2.6	54.8	+ 9.6	57.8	+ 2.8	62.1	− 3.1	71.6	− 2.7	75.0	− 4.6	76.9	− 1.3	71.4	+ 2.5	57.8	− 0.6	49.0	+ 5.1	30.2	− 4.2	56.2	+ 0.4
Doniphan	35.1	− 0.7	40.8	+ 1.5	56.8	+ 7.8	60.2	+ 1.7	63.8	− 2.7	72.5	− 2.5	77.1	− 1.5	79.4	+ 1.8	71.7	+ 0.5	58.4	− 0.1	50.2	+ 2.9	32.8	− 5.0	58.2	+ 0.3
Farmington	31.1	− 1.5	37.7	+ 0.8	54.4	+ 7.9	56.9	0.0	61.0	− 2.7	70.2	− 2.6	73.8	− 2.5	76.0	+ 0.6	69.7	+ 0.1	56.5	− 0.3	47.8	+ 3.0	30.8	− 5.9	55.5	− 0.3
Greenville	33.8	− 1.2	40.0	+ 4.2	55.8	+ 8.1	59.5	+ 2.9	62.4	− 3.5	71.4	− 2.2	76.0[c]	− 1.4	77.3	+ 0.6	71.6	+ 0.8	58.4[d]	+ 0.8	49.1	+ 3.7	32.4	− 3.8	57.3	+ 0.7
Jackson	32.6	− 1.2	40.0	+ 3.5	55.4	+ 8.2	58.6	+ 1.5	64.0	− 1.6	73.4	− 0.7	77.0	− 0.6	77.0	+ 0.9	71.4	+ 1.3	57.6	− 0.3	47.9	+ 1.3	29.6	− 7.0	57.0	+ 0.4
Koshkonong	35.3	− 1.2	40.7[a]	+ 1.6	56.2	+ 6.8	59.7	+ 1.2	63.2	− 3.4	71.2	− 3.2	75.8	− 3.0	76.3	− 1.6	71.6[b]	+ 0.2	59.4	− 0.2	49.4	+ 0.4	33.6	− 4.8	57.7	− 0.6
Licking......... 4 miles N	32.0	......	38.5	......	54.2	......	57.2	......	61.0	......	69.4	......	73.2	......	75.9	......	70.0	......	56.7	......	47.3	......	30.4	......	55.5	......
Malden....... 4 miles NNW	34.5	......	39.8	......	56.8	......	60.8	......	63.9	......	73.6	......	78.9	......	79.0	......	72.1	......	58.6	......	49.0	......	32.0	......	58.2	......
Marble Hill	31.0	− 3.6	39.5	+ 2.9	55.6	+ 8.0	59.4	+ 2.2	63.0	− 2.6	72.6	− 1.4	76.2	− 1.6	77.0	0.0	71.2	+ 0.5	57.9	− 0.3	49.5	+ 4.3	31.0	− 5.7	57.0	+ 0.2
Poplar Bluff	34.6	− 1.4	39.2	+ 1.1	55.6	+ 7.0	59.4	− 0.1	63.3	− 4.2	72.6	− 2.8	77.0	− 2.2	78.2	+ 0.2	71.9	+ 0.2	58.5	− 1.6	49.4	+ 1.7	32.3	− 5.5	57.6	− 0.7

Continued on next page

Monthly and Annual Mean Temperatures for the Year 1945, with Departures from Normal—Continued from preceding page

Stations	January		February		March		April		May		June		July		August		September		October		November		December		Annual	
	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure
Southeastern Div.-Concluded																										
Rolla	29.7	− 2.2	35.2	− 1.1	52.7	+ 7.2	56.0	+ 0.1	60.6	− 3.9	69.6	− 3.4	74.7	− 3.0	77.2	+ 1.0	69.0	+ 0.3	57.4	+ 0.9	46.9	+ 1.9	28.3	− 6.3	54.8	− 0.7
St. Louis																										
City Office	28.7	− 2.4	36.2	+ 1.4	54.3	+10.2	57.0	+ 0.9	61.0	− 6.0	70.6	− 4.4	77.6	− 1.2	78.0	+ 0.5	70.0	− 0.5	58.4	− 0.4	46.2	+ 0.8	28.6	− 6.3	55.6	− 0.6
St. Louis Airport	27.7	− 2.1	35.0	+ 1.0	53.4	+10.4	56.1	+ 1.3	60.2	− 5.6	69.8	− 4.2	76.0	− 1.8	76.9	+ 0.5	69.0	+ 0.2	57.1	− 0.2	45.4	+ 1.5	27.6	− 5.8	54.5	− 0.4
St. Louis University	29.0	− 3.0	36.2	+ 1.3	54.4	+10.2	56.8	+ 1.1	61.0	− 4.7	70.3	− 4.9	77.4	− 3.1	77.9	+ 0.1	69.9	− 1.0	58.1	− 0.5	46.2	+ 0.5	28.5	− 6.6	55.5	− 0.9
Washington University	27.8	......	34.8	......	53.4	......	56.4	......	61.0	......	70.5	......	75.8	......	77.0	......	69.8	......	56.7	......	45.7	......	27.4	......	54.7	......
Salem	31.6	− 1.0	37.6	+ 1.8	53.8	+ 7.4	57.0	+ 1.0	61.0	− 3.5	70.2	− 2.2	74.8	− 2.0	77.4	+ 1.5	69.9	+ 0.7	57.6	0.0	46.7	+ 0.6	30.8	− 4.6	55.7	0.0
Sikeston	34.0	− 3.0	40.2	+ 3.0	56.2[c]	+ 7.6	60.5	+ 2.4	63.6	− 4.9	73.5	− 0.8	78.2	− 0.4	75.7	− 1.9	72.8	+ 1.7	58.9	− 0.4	48.6	+ 1.4	31.6	− 6.1	57.8	− 0.1
Union ....1½ miles SE	31.0	......	36.2	......	54.4	......	57.2	......	61.4	......	70.5	......	74.1	......	76.2	......	70.2	......	56.2	......	46.6	......	27.9	......	55.2	......
Vichy .... 2 miles NW	29.1	......	34.8	......	52.6	......	55.6	......	59.4	......	68.2	......	74.6	......	76.6	......	68.6	......	56.0	......	45.4	......	27.3	......	54.0	......
Wappapello Dam	31.4	......	37.3	......	54.4	......	60.1	......	62.2	......	72.2	......	78.2	......	78.4	......	71.6	......	58.4	......	49.8	......	31.8	......	57.2	......
Weingarten	30.7	......	37.4	......	53.8	......	55.0	......	61.0	......	71.0	......	75.7	......	77.8	......	71.1	......	56.8	......	47.8	......	29.6	......	55.6	......
West Plains	33.0	......	36.9	......	53.3	......	57.8	......	60.6	......	70.2	......	75.0	......	76.6	......	69.4	......	56.2	......	46.0	......	30.1	......	55.4	......
Willow Springs....500 ft. E	33.5	......	36.7	......	54.0	......	57.6	......	59.1	......	69.9	......	74.2	......	75.8	......	69.6	......	57.7	......	47.5	......	30.9	......	55.5	......
Cairo, Ill	33.7	− 1.2	40.0	+ 1.5	57.4	+ 9.7	61.4	+ 2.3	64.0	− 5.4	74.1	− 3.2	79.0	− 1.6	78.5	− 0.3	72.8	+ 0.3	59.3	− 1.2	49.6	+ 2.3	33.4	− 4.4	58.6	− 0.1
Division means	**32.1**	**− 1.9**	**38.0**	**+ 1.6**	**54.8**	**+ 8.2**	**58.3**	**+ 1.4**	**61.8**	**− 3.9**	**71.3**	**− 2.8**	**75.9**	**− 2.2**	**77.0**	**+ 0.1**	**70.7**	**+ 0.5**	**57.5**	**− 0.6**	**48.0**	**+ 2.1**	**30.7**	**− 5.4**	**56.3**	**− 0.2**
State means	**30.0**	**− 0.8**	**35.5**	**+ 2.2**	**52.6**	**+ 8.6**	**55.9**	**+ 0.6**	**60.5**	**− 4.0**	**69.5**	**− 4.1**	**75.1**	**− 2.9**	**76.8**	**+ 0.2**	**69.4**	**+ 0.1**	**56.8**	**− 0.9**	**46.3**	**+ 1.8**	**27.8**	**− 6.3**	**54.7**	**− 0.4**

Figures and letters following station indicate distance and direction of station from the city Post Office, unless otherwise indicated. Letters of alphabet indicate number of days missing from report: thus [a] one day; [b] two days, etc. Italics data interpolated. § Partly interpolated.

Monthly and Annual Precipitation for the Year 1945, with Departures from Normal—Continued from page 101

Stations	January		February		March		April		May		June		July		August		September		October		November		December		Annual	
	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure
Southeastern Div.Cont.																										
Owensville	§1.16	−0.66	3.80	+2.14	7.13	+3.81	6.51	+3.20	6.39	+1.59	9.10	+4.45	2.72	−0.90	2.92	−0.92	11.42	+7.93	2.69	−0.74	§1.30	−1.51	1.27	−1.06	§56.41	+17.33
Pacific	§0.87	−1.49	§3.23	+1.09	§10.53	+6.82	§6.66	+2.49	§5.46	+0.51	§5.87	+1.34	§3.56	−0.08	§2.39	−1.30	§10.20	+6.40	§2.02	−1.01	§1.63	−1.12	§1.13	−1.07	§53.55	+12.58
Parma	2.53	−2.73	5.50	+2.62	10.29	+4.93	9.44	+5.20	7.27	+3.11	15.12	†11.64	3.71	−0.18	2.09	−2.48	6.36	+1.31	2.79	−0.35	2.91	−1.56	1.99	−2.79	70.00	+18.72
Perryville	§2.74	......	§6.87	......	9.75	......	11.28	......	3.34	......	9.81	......	1.35	......	1.79	......	6.61	......	5.02	......	1.88	......	§0.82	......	§61.26	......
Pilot Knob.. 2 mi NE	§1.18	......	§5.39	......	9.59	......	6.71	......	4.38	......	11.93	......	*3.09*	......	1.20	......	8.71	......	3.95	......	3.18	......	§1.15	......	§60.46	......
Poplar Bluff .....(A)	1.43	−2.99	§7.65	+4.76	10.84	+6.48	7.32	+2.81	6.26	+1.74	12.56	+8.44	1.75	−2.19	3.20	−1.37	9.62	+5.73	1.21	−2.45	2.38	−1.10	§1.50	−2.49	§65.72	+17.37
Poplar Bluff .....(B)	1.33	......	7.13	......	11.91	......	7.89	......	6.65	......	13.26	......	1.95	......	3.51	......	9.56	......	1.25	......	2.36	......	1.63	......	68.43	......
Puxico	*1.63*	......	7.86	......	12.45	......	7.06	......	4.94	......	13.61	......	1.42	......	2.88	......	10.55	......	2.83	......	2.74	......	1.34	......	§69.31	......
Quliu	§2.14	......	6.30	......	11.89	......	9.82	......	7.82	......	13.01	......	4.63	......	1.31	......	9.08	......	2.59	......	3.33	......	1.75	......	§73.67	......
Reynolds	1.23	......	7.96	......	9.60	......	9.12	......	4.91	......	12.39	......	1.61	......	1.23	......	7.69	......	2.37	......	3.05	......	0.82	......	61.98	......
Richwoods	0.80	......	4.24	......	10.02	......	§7.62	......	§5.80	......	5.52	......	1.97	......	2.22	......	13.68	......	1.64	......	1.47	......	§1.18	......	§56.16	......
Rolla	0.73	−1.73	§3.74	+1.69	9.68	+6.05	6.78	+2.56	7.95	+3.20	12.05	+7.64	2.70	−0.69	0.66	−3.78	10.71	+6.57	3.55	+0.09	0.70	−1.98	0.85	−1.33	§60.10	+18.29
Round Spring	§1.18	......	7.41	......	8.19	......	11.02	......	6.06	......	8.01	......	3.02	......	0.85	......	8.10	......	2.04	......	1.54	......	§0.65	......	§58.07	......
St. Louis:																										
City Office	1.02	−1.32	3.57	+1.01	8.27	+4.89	5.40	+1.59	4.31	−0.03	7.42	+3.60	1.00	−1.98	4.38	+1.39	10.01	+6.55	1.08	−1.64	1.68	−1.15	1.68	−0.53	49.82	+12.38
St. Louis Airport	1.10	−1.16	2.49	+0.25	7.63	+4.75	6.18	+2.56	2.71	−1.21	7.87	+3.58	1.07	−1.59	3.58	+0.56	10.04	+5.67	1.22	−2.20	1.63	−0.77	1.72	−0.01	47.24	+10.43
St. Louis Univ	1.05	−1.55	4.38	+2.07	9.28	+5.94	6.00	+2.14	4.35	+0.16	7.28	+3.69	1.26	−1.92	4.14	+0.20	10.51	+6.75	1.45	−1.71	1.78	−0.76	2.46	+0.02	53.94	+15.03
Washington Univ	1.53	......	2.53	......	9.16	......	6.57	......	3.87	......	8.17	......	2.11	......	4.67	......	9.18	......	2.20	......	1.83	......	1.65	......	53.47	......
Salem	1.08	−1.64	5.19	+2.91	10.30	+6.43	9.74	+5.24	4.93	+0.42	10.80	+6.15	2.47	−1.03	0.34	−4.23	11.31	+7.43	5.29	+1.67	1.58	−1.06	0.72	−1.82	63.75	+20.47
Sikeston	§2.50	−2.36	5.98	+2.76	9.52	+5.06	8.21	+3.59	6.68	+2.44	16.33	†12.14	2.16	−1.56	3.43	−0.37	6.16	+2.28	2.18	−1.09	4.81	+1.25	2.05	−1.89	§70.01	+22.25
Steelville ..2½ mi. NE	1.35	......	4.63	......	11.03	......	8.28	......	5.43	......	10.78	......	1.89	......	1.09	......	11.15	......	2.45	......	1.08	......	0.82	......	59.98	......
Summersville	1.28	......	7.36	......	8.27	......	8.46	......	5.43	......	9.45	......	0.73	......	0.80	......	8.79	......	1.89	......	1.73	......	0.62	......	54.81	......
Union ......1½ mi. SE	§1.03	−1.29	§2.99	+0.79	8.76	+5.46	5.36	+1.00	5.15	+0.61	6.59	+2.29	2.25	−1.69	1.07	−3.63	11.07	+6.88	1.75	−1.73	0.81	−1.94	§1.39	−0.82	§48.22	+5.93
Valley Park	§0.98	−1.28	§4.15	+2.26	8.06	+4.69	5.69	+1.57	4.02	−0.45	6.28	+2.40	3.68	+0.76	3.80	−0.25	11.23	+7.69	1.53	−1.86	1.54	−1.06	§1.69	−0.48	§52.65	+13.99
Van Buren	*1.22*	......	7.74	......	10.92	......	7.12	......	5.73	......	9.69	......	1.14	......	2.97	......	11.97	......	2.18	......	2.08	......	§0.93	......	§63.69	......
Vichy ..... 2 mi. NW	0.98	......	3.19	......	7.41	......	7.48	......	7.94	......	10.65	......	2.34	......	1.24	......	13.95	......	3.77	......	0.88	......	0.77	......	60.60	......
Wappapello Dam	1.29	......	7.49	......	12.69	......	6.65	......	4.70	......	13.20	......	1.78	......	3.49	......	11.55	......	2.43	......	2.44	......	1.30	......	69.01	......
Webster Groves	*1.11*	......	*3.87*	......	*8.09*	......	*5.96*	......	5.51	......	7.25	......	1.94	......	1.73	......	9.20	......	1.28	......	1.75	......	§1.60	......	§49.29	......
Weingarten	1.00	......	5.50	......	9.02	......	8.65	......	4.78	......	8.15	......	1.42	......	1.43	......	9.25	......	2.32	......	2.70	......	§1.25	......	§55.47	......
West Plains	0.87	......	9.64	......	11.42	......	9.60	......	6.24	......	12.41	......	0.41	......	1.81	......	7.53	......	1.97	......	2.15	......	1.31	......	65.36	......
Williamsville	1.47	−2.99	8.71	+6.07	10.85	+6.95	9.46	+4.74	5.59	+1.12	15.01	+9.18	1.57	−2.46	3.58	−1.76	12.98	+9.61	3.20	−0.91	2.61	−0.98	1.21	−3.15	76.24	+25.42
Willow Springs	1.34	−1.81	8.63	+6.07	7.66	+3.42	10.36	+5.52	5.47	+0.87	7.56	+2.73	1.18	−2.62	2.82	−1.26	5.45	+1.37	2.40	−0.92	2.55	−0.79	0.95	−1.85	56.37	+10.70
Winona Ranger Sta.	§1.68	......	§9 10	......	10.95	......	10.21	......	5.17	......	9.64	......	1.66	......	1.57	......	8.15	......	3.07	......	2.54	......	1.01	......	§64.75	......
Zalma....3½ miles S	§1.53	......	8.89	......	§13.49	......	7.27	......	4.56	......	13.72	......	1.79	......	2.94	......	8.18	......	3.15	......	3.81	......	0.93	......	§70.26	......
Cairo, Ill	2.13	−1.63	5.92	+2.79	9.22	+5.47	8.27	+4.55	6.94	+3.23	10.17	+6.34	0.84	−2.23	3.28	+0.26	6.30	+3.41	1.97	−0.79	5.12	+1.44	1.82	−1.58	61.98	+21.26
....	....	......	....	......	....	......	....	......	....	......	....	......	....	......	....	......	....	......	....	......	....	......	....	......	......	......
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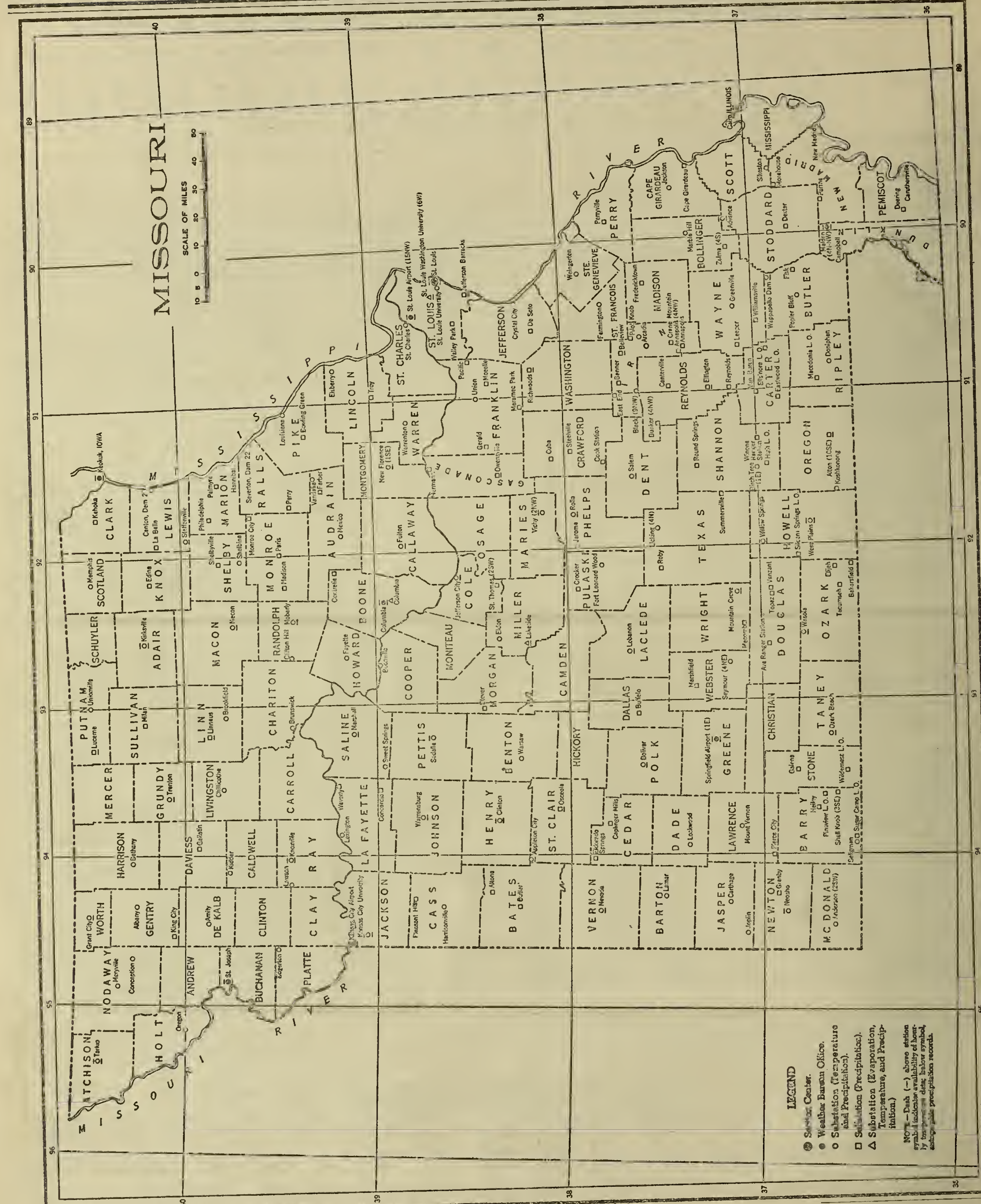
Italics data interpolated. § Partly interpolated.

Monthly and Annual Evaporation (Inches) and Wind Movement (Miles) for the Year 1945

(See temperature and precipitation data in Climatological Tables)

Stations	Data	January	February	March	April	May	June	July	August	Sept.	October	Nov.	Dec.	Annual
Columbia (Univesity of Mo.)	Evaporation	.....	.....	.....	4.833	5.320	4.477	6.803	7.070	5.510	3.316	.....	.....	.....
	Wind movement	2,745	2,908	3,901	3,566	2,658	1,542	798	738	1,712	1,388	2,896	3,157	28,009
St. Louis (Washington Univ.)	Evaporation	.....	.....	3.222	3.737	3.546	4.424	5.732	5.437	3.843	2.467	1.756	.....	.....
	Wind movement	1,347	1,514	1,757	1,524	1,210	926	592	660	813	831	1,621	1,475	14,270



WBO, St. Louis. 7-19-46—1300.

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CLIMATOLOGICAL DATA

19

MISSOURI SECTION

H. F. WAHLGREN
ST. LOUIS, MO.

VOL. L — JANUARY 1946 — No. 1

PRICE: 5 CENTS A COPY; 25 CENTS A YEAR

GENERAL SUMMARY

January 1946, was a comparatively wet, mild, and open month with very little snowfall; the ground was bare most of the time. Heavy rains on the 5-6th, and again on the 8-9th, caused rapid rises in most rivers of the State, resulting in overflows in the Black, Grand, St. Francis and portions of the Mississippi and Osage rivers.

It was the warmest January since 1944, and averaged 3.8° warmer than the same month one year ago. Temperature changes were rather sudden and frequent, but no unusual extremes occurred. The 1st, 22d, 26th and 27th were the coldest days, while the 3d, 4th, 5th, 6th, 18th and 30th were the warmest, generally. A decidedly warm period occurred from the 3d to 19th, resulting in an unusually early January thaw, during which time ice in rivers and streams broke up and moved out, the freeze went out of the ground and all snow accumulation from the previous month was melted the first day or two of this warm period. All three divisions of the State averaged from more than 2° to over 3° warmer than normal. Only a few individual stations had sub-normal monthly temperature averages.

Precipitation was mostly in the form of rain during the month and occurred at rather frequent intervals, but the distribution was decidedly irregular. The Southeastern Division received the greatest amount of precipitation, with an average of 3.47 inches, which was 0.22 inch more than normal. The average for the Northern Division was 2.64 inches and for the Southwestern Division it was 3.24 inches, or 1.04 and 1.13 inches, respectively, more than normal. Snowfall was of little consequence during January, except for moderate to rather heavy falls locally in east-central counties on the 11th and 20th, where monthly totals were from 4 to over 7 inches at some stations. The snow melted rather quickly, however, in this area and the ground was not covered for more than three or four days, following the fall on the 20th and for only a day, or even less, following the fall on the 11th.

There were no damaging storms of any kind reported during the month. Sunshine averaged slightly more than normal.

The mild open weather was favorable for seasonal outdoor work, but frequent precipitation, and alternate thawing and freezing, kept fields and dirt roads muddy much of the time. Some corn still remained in the fields at the close of the month. Although there was practically no protective snow cover for the winter wheat crop, it was belived to have come through in good condition. The soil was thoroughly soaked by the rather heavy rains and the general thaw during the warm period from the 3d to 19th, and there was an ample reserve of water supply and of sub-soil moisture, at the end of January. Livestock generally were in good condition, but required dry-feeding throughout most of the month, due to soft and muddy fields and pastures. Auction sales of livestock and farm equipment were numerous in rural areas during the month.—M. R. W.

TEMPERATURE

The monthly mean for the State, 99 stations reporting, was 33.8°, or 2.9° warmer than the 59-year January average. The highest monthly mean was 40.7° at Caruthersville, and the

(Continued on page 3)

PRESSURE, WIND, HUMIDITY, AND SUNSHINE

Stations	Sea-level pressure, extremes-inches				Wind				Relative humidity				Percentage of sunshine	Degree days
	Highest	Date	Lowest	Date	Average hourly velocity	Maximum velocity	Direction	Date	12:30 a. m.	6:30 a. m.	12:30 p. m.	6:30 p. m.		
Columbia..	30.53*	12	29.08*	5	8.5	26	sw.	23	76*	76*	63*	68*	50	998
K C. Airp't	30.58	12	29.01	5	11.7	33	sw.	30	73	75	66	68	54	995
St. Joseph .	30.58*	12	29.03*	5	9.1	32	s.	30	81*	83*	69*	54*	54	1082
St. Louis	30.58*	13	29.19*	5	13.5	43	s.	5	76*	77	64	70*	49	936
Springfield	30.59	13	29.17	5	13.1	36	se.	29	80	86	56	71	45	944
Cairo. Ill..	30.58	13	29.36	5	10.3	32	sw.	25	..	79	67	..	41	819
....	.....	..	.....	..	....	..	......	..	..	..	..	..	..	....

* Data for Airport station.

COMPARATIVE DATA FOR JANUARY

Year	Temperature			Precipitation					Number of days			
	Average for State	Highest	Lowest	Average for State	Average, Northern Division	Average, Southwestern Division	Average, Southeastern Division	Snowfall, Average for State	Precip. .01 inch or more	Clear	Partly cloudy	Cloudy
1888	21.5	74	−32	2.14	1.76	2.20	2.47	....	6	..	..	..
1889	31.8	69	− 2	2.53	1.65	2.48	3.45	....	6	..	..	..
1890	33 8	81	−19	5.18	3.23	4.18	8.14	....	9	..	..	..
1891	34.1	74	− 1	1.63	1.36	0.98	2.56	4.3	6	..	..	..
1892	24.0	67	−31	1.87	1.80	1.87	1.93	....	4	14	8	9
1893	22.5	66	−14	0.45	0.51	0.41	0.42	2.4	3	9	11	11
1894	31.4	77	−35	2.48	1.90	2.95	2.59	2.7	5	13	9	9
1895	24.7	78	−22	1.66	0.97	1.44	2.57	9.4	5	14	8	9
1896	32.9	71	− 9	1.19	1.05	0.85	1.67	3.1	4	10	7	14
1897	28.4	72	−16	5.24	4.18	5.50	6.04	4.0	8	12	7	12
1898	34.3	75	−10	4.11	4.02	3.84	4.48	8.4	9	11	8	12
1899	30.2	70	−21	1.93	0.62	1.20	3.96	4.0	6	12	8	11
1900	34.5	77	− 9	1.28	0.98	1.18	1.67	0.2	4	14	7	10
1901	35.0	72	−11	1.31	1.21	1.45	1.27	0.8	4	17	7	7
1902	30.1	72	−17	1.36	1.07	0.95	2.05	6.9	5	16	7	8
1903	31.4	73	−11	1.49	1.07	1.41	1.98	5.0	6	13	6	12
1904	27.0	66	−23	3.01	2.64	2.74	3.66	7.4	8	14	6	11
1905	22.3	72	−19	2.04	1.06	2.10	2.95	6.8	8	14	6	11
1906	35.6	77	− 8	3.44	2.20	3.07	5.04	9.2	6	14	5	12
1907	34.3	79	− 5	5.04	4.14	5.28	5.69	2.8	12	7	6	18
1908	34.4	68	−10	1.67	0.50	1.47	3.04	3.6	5	19	5	7
1909	33.7	83	−20	2.36	2.01	1.70	3.36	6.5	7	6	7	18
1910	32.3	78	−24	1.82	1.96	1.73	1.78	3.5	5	13	6	12
1911	34.6	78	−19	0.84	1.57	0.32	0.64	0.7	5	8	7	16
1912	20.0	70	−36	1.22	0.35	0.79	2.51	6.5	4	14	7	10
1913	33.1	74	−12	4.18	1.53	2.63	8.38	2.6	8	13	6	12
1914	38.1	78	− 1	1.45	0.96	1.43	1.95	1.0	4	12	7	12
1915	29.1	76	−24	2.88	2.29	2.48	3.86	5.4	8	12	5	14
1916	31.6	72	−24	7.66	5.23	8.32	9.42	3.4	12	9	4	18
1917	32.9	76	−10	1.53	0.75	1.05	2.79	2.3	5	15	7	9
1918	16.4	67	−24	1.72	1.08	1.45	2.63	16.6	7	12	7	12
1919	34.0	70	−23	0.44	0.14	0.32	0.85	1.4	2	20	5	6
1920	28.6	72	− 5	1.72	0.52	1.39	3.25	5.7	5	15	5	11
1921	37.1	74	− 1	1.88	1.42	2.07	2.15	5.4	6	10	7	14
1922	29.5	66	− 6	1.33	1.08	1.41	1.50	3.9	5	14	5	12
1923	39.2	75	3	2.58	0.77	2.21	4.77	0.6	6	12	7	12
1924	24.9	68	−25	1.59	1.08	1.64	2.05	5.7	7	14	5	12
1925	29.7	65	−15	1.05	0.41	1.29	1.44	4.7	4	15	7	9
1926	32.7	70	−20	1.93	1.28	1.91	2.60	4.2	6	11	7	13
1927	30.8	73	−24	3.05	0.90	2.43	5.81	3.6	6	13	6	12
1928	33.3	77	−18	0.97	0.31	0.81	1.80	0.5	3	16	7	8
1929	25.1	72	−13	3.51	2.77	2.79	4.96	6.8	8	11	6	14
1930	20.8	73	−31	4.62	2.38	4.18	7.30	13.0	10	12	5	14
1931	36.0	76	− 5	0.74	0.39	0.65	1.18	2.0	4	16	6	9
1932	36.4	73	− 7	3.56	1.78	3.23	5.66	1.0	9	10	7	14
1933	41.4	72	8	2.56	1.73	2.62	3.34	0.5	6	14	8	9
1934	36.1	71	− 6	1.34	0.88	1.33	1.82	1.5	5	13	6	12
1935	33.0	71	−12	2.57	1.47	2.44	3.81	0.5	7	12	6	13
1936	24.4	74	−25	1.01	1.69	0.56	0.77	7 6	7	11	7	13
1937	28.5	70	−15	6.38	3.66	5.20	10.28	4.3	11	9	5	17
1938	33.1	75	− 9	2.93	2.53	3.00	3.27	0 3	6	13	6	12
1939	39.0	74	− 5	2.74	1.40	2.25	4.57	8.1	9	12	8	11
1940	15.5	55	−28	1.35	1.21	1.19	1.66	12.4	8	13	7	11
1941	34.7	70	0	3.41	3.59	3.70	2.93	4.4	11	9	5	17
1942	31.1	74	−24	1.66	0.57	1.30	3.10	3.4	5	18	6	7
1943	31.1	81	−23	0.39	0.58	0.29	0.30	3.0	4	14	7	10
1944	35.7	77	− 6	0.63	0.55	0.74	0.61	1.3	4	15	8	8
1945	30.0	65	−12	1.08	0.98	0.88	1.39	5.4	7	9	7	15
1946	33.8	71	−15	3.12	2.64	3.24	3.47	0.8	8	12	6	13
....	....	..	....	....	....	....	....	....	..	..	..	..
....	....	..	....	....	....	....	....	....	..	..	..	..
Period	30.9	83	−36	2.32	1.60	2.11	3.25	4.4	6	13	6	12

Climatological Data for January 1946

Stations	Counties	Elevation, feet	Temperature, in degrees Fahr.							Precipitation, in inches						Number of days				Prevailing direction of wind	Observers
			Length of record, years	Mean	Departure from the normal	Highest	Date	Lowest	Date	Length of record, years	Total	Departure from the normal	Greatest in 24 hours[4]	Date	Total snowfall, unmelted	With precip., .01 inch or more	Clear	Partly cloudy	Cloudy		
Northern Division																					
Albany	Gentry	930	5	29.6	......	59	18	0	26	17	2.80	+1.97	1.60	5	1.0	6	18[c]	1[c]	9[c]	s.	Curtis E. Grace
Bethany	Harrison	916	51	28.6	+ 3.8	51	18	− 6	1	53	2.91	+1.72	1.64	4-5	0.7	7	17	3	11	sw.	B. A. McGregor
Brookfield	Linn	767	5	29.1	......	54	5	2	1†	5	2.84	......	1.59	4-5	0	4	18	0	13	sw.	G. F. Breen
Brunswick	Chariton	652	65	30.2	+ 3.5	55	5	0	2	67	4.09	+2.50	2.06	4-5	3.0	7	18	0	13	nw.	O. K. Benecke
Canton, Lock & Dam 20	Lewis	488	8	30.0	......	56	18	− 2	1	16	2.92	+0.98	1.12	4-5	0.5	6	16	3	12	nw.	Lockmaster
Chillicothe	Livingston	779	37	29.6	+ 5.2	56	18	1	1	40	2.44	+0.96	....	..	*0.5*	9	19	3	9	nw.	Wm. J. Olenhouse
Clifton Hill	Randolph	731	47	32.2	+ 4.1	55	5	0	1	37	2.90	+1.18	1.05	4-5	*0.5*	8	15	6	10	sw.	Dr. A J. Bradsher
Columbia	Boone	740	56	32.8	+ 1.9	57	5	6	1	56	2.43	+0.51	1.00	8-9	0.2	7	10	9	12	s.	U. S. Weather Bureau
Conception	Nodaway	1,108	57	28.4	+ 3.7	54	18	− 5	1	62	1.83	+1.04	0.83	5	*0.4*	7	7	13	11	nw.	Fr. Adelhelm Hess
Edgerton	Platte	856	26	32.1	+ 5.2	55	6	− 4	26	43	3.44	+2.59	1.90	5	*1.0*	6	18	1	12	sw.	Paul C. Handley
Elsberry	Lincoln	449	15	30.8	− 0.8	59	5	− 3	22	15	2.10	−0.07	0.89	8	1.6§	7	13	9	9	sw.	Soil Conservation Service
Fayette	Howard	760	66	32.0	+ 5.0	55	5†	2	1	63	2.30	+0.51	0.90	4-5	0.3	7	12	5	14	s.	Irvin E. Schnell
Fulton	Callaway	818	58	31.7	+ 2.2	58	5†	2	22	54	2.38	+0.36	1.05	8-9	1.3§	7	19	4	8	sw.	Frank E. Hillgartner
Grant City	Worth	1,134	42	27.9[a]	+ 3.1	57[a]	18	− 4	1	54	2.22§	+1.25	1.30	4-5	2.5	6	17[a]	2[a]	11[a]	n.	J. Homer Korn
Hannibal	Marion	759	54	30.2	+ 3.1	55	5†	1	26	62	2.48	+0.76	1.09	8-9	0.4	8	13	7	11	sw.	Hannibal Water Dept.
Kansas City Airport	Jackson	741	57	33.0	+ 4.8	56	4	7	1	57	3.40	+2.16	0.92	4-5	0.8	8	9	8	14	sw	U. S. Weather Bureau
Kansas City Univ.	Jackson	908	8	34.5	......	56	4	6	26	8	3.78	......	1.83	4-5	T.	7	10	10	11	nw.	University of Kansas City
Kidder	Caldwell	1,020	54	28.9	+ 2.9	55	18	− 4	1	58	4.03	+2.81	1.37	4-5	2.2	11	17	2	12	n.	Mrs. Geraldine Terry
Kirksville	Adair	969	57	29.4	+ 4.6	56	18	− 1	26	64	2.78	+1.26	1.43	4-5	0.3	5	19	3	9	s.	Dr. Willis J. Bray
Knoxville	Ray	960	1	29.8	......	54	5	− 1	1	2	3.51	......	2.01	4-5	1.1	9	9	3	19	s.	C C. A. Station
Lawson	Ray	1,070	8	31.4	......	54	18	− 1	1	8	4.06	+2.10	1.87	4-5	1.0	9	13	5	13	nw.	Elmer E. Lamb
Louisiana	Pike	469	52	32.4	+ 4.3	59	5	2	27	65	2.65§	+0.50	1.23	9	*1.0*	9	13	8	10	s.	Stark Bro's Nurseries
Macon	Macon	875	47	28.6	+ 1.1	54	5	2	1	53	3.25	+1.55	1.69	4	0.2	6	12	5	14	nw.	John W. Atwell
Maryville	Nodaway	1,169	56	28.0	+ 5.1	56	18	− 7	1	52	1.41	+0.41	0.65	5	1.0	8	15	4	12	nw.	R. B. Montomery
Memphis	Scotland	787	7	26.6	......	60	18	− 4	1†	16	2.70§	+1.17	1.83	4-5	1.3	7	13	6	12	nw.	John W. Alexander
Mexico	Audrain	800	57	30.3	+ 2.3	57	5	3	1	68	3.05§	+1.02	1.50	8-9	*0.8*	5	12	4	15	s.	Darrence W. Stuart
Moberly .....3½ mi. NE	Randolph	860	9	30.8	+ 2.8	55	5	4	26†	9	2.19§	+0.43	0.70	4-5	*0.2*	6	9	9	13	s.	F. W. Bell
New Florence. 1 mi SE	Montgomery	885	3	31.2	......	57	5	1	22	4	2.41	......	1.50	8-9	1.3	7	8	5	18	nw.	U. S. Weather Bureau
Oregon	Holt	1,048	90	29.8	+ 5.7	54	5	− 1	1	90	1.28	+0.35	0.56	5	*T.*	4	20	4	7	s.	James M. Curry
St. Charles	St. Charles	520	58	33.0	+ 2.0	62	6	4	22	68	2.10§	−0.05	1.09	8-9	*4.5*	7	8[a]	14[a]	8[a]	nw.	Martin L. Comann
St. Joseph	Buchanan	957	36	30.0	+ 4.5	53	4	3	1	74	2.35	+1.07	1.16	4-5	2.6	7	17	3	11	s.	U. S. Weather Bureau
Saverton, Lock No. 22.	Ralls	472	8	32.1	......	57	5	3	27	8	2.18	......	0.96	8-9	*T.*	7	17	4	10	nw.	Lockmaster
Shelbina	Shelby	779	5	30.3	......	56	18	1	1†	53	2.70	+1.17	0.91	4-5	T.	7	18	1	12	sw.	Guyman Hatcher
Steffenville	Lewis	650	48	30.4	+ 3.0	55	5	0	1	53	3.15	+1.14	1.05	4-5	1.2	7	18	1	12	s.	Mrs. Fannie V. Gross
Tarkio	Atchison	916	43	26.6	+ 3.7	52	18	−15	1	52	0.95	+0.21	0.41	5	1.0	5	11	9	11	s.	C. A. A. Station
Trenton	Grundy	822	50	30.8	+ 4.5	58	18	0	1†	51	3.30	+1.96	1.57	4-5	T.	7	11	9	11	s.	W. H. Estes
Unionville	Putnam	1,062	53	26.0	+ 2.5	59	18	− 4	26†	53	2.66	+0.94	0.91	4-5	1.6	8	13	8	10	nw.	Mrs. Dora A. Wilson
Vandalia	Audrain	766	2	34.0	......	62	6	4	26†	7	2.35	......	1.10	4-5	2.2§	5	18	6	7	n.	Mrs. Naomi K. Stoutz
Warrenton	Warren	816	64	33.1	+ 3.9	59	5	− 3	22	56	2.14	−0.05	1.29	8-9	2.1	5	17	6	8	sw.	W. T. Zimmerman
Keokuk, Iowa	Lee, Ia	574	74	28.8	+ 3.9	56	5†	− 1	26	74	2.43	+0.87	0.88	4-5	1.5	10	14	5	12	s.	U. S. Weather Bureau
Division means	**and extremes**	.....	..	**30.4**	**+ 3.5**	**62**	**6**	**−15**	**1**	..	**2.64**	**+1.04**	**2.06**	**4-5**	**1.0**	**7**	**14**	**5**	**12**	**s.**	
Southwestern Division																					
Anderson ...1½ mi sw	McDonald	1,000	42	33.6	− 2.3	61	3	4	27	47	4.55	+2.02	1.92	4-5	*T.*	8	14[a]	4[a]	12[a]	sw.	Samuel G. Chamberlain
Appleton City	St. Clair	813	51	34.3	+ 3.0	56	4†	9	1†	54	3.75	+1.91	2.00	4-5	T.	6	14	5	12	sw.	Rolla Brown
Bolivar	Polk	1,071	43	35.8	+ 1.9	57	4	10	27	51	2.91	+0.98	1.08	4-5	0.2	8	11	7	13	sw.	Southwest Baptist College
Boonville	Cooper	650	8	30.7	......	57	5	0	1	69	2.42	+0.70	0.71	5-6	1.0	6	9	5	17	sw.	Boonville Water Dept.
Carthage	Jasper	962	12	36.8	......	60	4	10	27	22	3.62	......	1.58	4-5	*T.*	6	11	12	8	s.	Carthage W. and E. Plant
Clinton	Henry	786	53	33.4	+ 1.7	57	4	9	1	59	3.45	+1.42	1.59	5	T.	8	13	7	11	s.	U. S. Weather Bureau
Eldon	Miller	934	51	35.0	+ 3.9	59	4	7	1	47	1.84	+0.08	0.72	5	0.9	7	10	6	15	s.	Ira M. Wilson
Fort Leonard Wood	Pulaski	1,107	5	34.6	......	70	6	4	27	5	2.49	......	1.30	8-9	*0.7*	7	7	9	15	w.	U. S. Army Medical Corps
Harrisonville	Cass	904	68	31.8	+ 4.5	56	18	6	1	71	3.74	+2.17	1.62	4-5	T.	7	13	6	12	n.	Jeffrey B. Patterson
Jefferson City	Cole	557	56	34.0	+ 4.2	61	4	0	1	64	2.32	+0.34	0.80	9	0.4§	8	4	17	10	......	K. W. O. S. Radio Farm
Joplin	Jasper	1,008	24	37.4	+ 2.5	59	4	13	27	41	3.06	+0.90	1.05	5	0.5	7	13	5	13	sw.	Empire Dist. Electric Co.
Lakeside	Miller	595	15	34.4	+ 1.4	60	4	8	1†	15	1.99	−0.19	0.70	9	1.0§	8	9	10	12	......	W. S. Frame
Lamar	Barton	980	58	34.4	+ 2.3	58	4†	10	27	65	2.90	+1.07	1.32	5	0	6	11	4	16	sw.	Mrs. Marie Mann
Lebanon	Laclede	1,265	58	35.3	+ 2.8	57	4	4	1	59	2.30	−0.34	1.10	11	0	6	10	8	13	sw.	Mrs. Rosa E. Montelius
Lexington	Lafayette	688	61	32.3	+ 4.5	57	18	6	2†	62	3.72§	+2.20	*2.07*	4-5	*T.*	5	14	9	8	se.	Tilton Davis
Lockwood	Dade	1,078	40	36.8	+ 3.5	59	3†	13	27	50	2.38	+0.52	0.92	4-5	1.0	7	10	10	11	sw.	Hubert A. Nieman
Marshall	Saline	779	59	35.3	+ 7.4	59	4†	2	1	56	3.40	+1.75	1.60	5	*T.*	7	17	4	10	n.	Thomas A. Reid
Mountain Grove	Wright	1,463	45	35.8	+ 3.0	60	18	6	27	49	3.89	+1.16	1.10	4-5	0.7	11	10	8	13	nw.	Mo. Fruit Exp. Station
Mount Vernon	Lawrence	1,174	34	34.7	+ 1.4	59	3†	9	27	46	2.13	−0.58	0.67	8-9	*2.4*	6	9	11	11	s.	James C. Williamson
Neosho	Newton	1,011	59	37.6	+ 2.5	60	4	7	27	63	3.60	+1.13	1.71	5	T.	12	13	8	10	nw.	U. S. Fisheries Station
Nevada	Vernon	862	53	36.4	+ 4.5	58	4	9	27	54	4.07	+2.24	1.81	4-5	T.	8	12	3	16	sw.	Henry Kraft
Ozark Beach	Taney	700	6	35.8	......	65	25	9	27†	21	4.31	+1.34	1.74	8	0	7	8	8	15	sw.	Empire District Elec. Co.
Sedalia	Pettis	910	33	34.0	+ 7.6	56	5	4	1	35	3.07	+0.82	1.53	5	*0 3*	8	11	7	13	sw.	Dr. J. E. Cannaday
Seligman	Barry	1,542	45	37.0	+ 1.9	62	3	8	27	43	3.61	+0.82	1.13	8-9	0	8	12[a]	3[a]	15[a]	sw.	Floyd E. Fawver
Seymour..3½ miles NE	Webster	1,642	40	32.6	− 1.4	58	25	7	27	40	3.65	+1.06	1.30	5-6	0.2	8	14	1	16	n.	A. L. Hailey
Springfield... 4 mi. NW	Greene	1,301	58	34.4	+ 2.1	56	25	9	27	58	2.95	+0.61	1.19	4-5	2.4	8	9	4	18	s.	U. S. Weather Bureau
Sweet Springs	Saline	700	5	33.3	......	55	4†	2	1	5	3.28	......	1.61	5	*T.*	10	10	13	8	s.	H F. Nelson
Warrensburg	Johnson	878	59	33.8	+ 5.1	57	4	8	1†	66	3.53	+1.75	2.43	4-5	*T.*	8	11	6	14	sw.	Central Teachers College
Warsaw	Benton	687	45	35.6	+ 2.7	59	5	2	1	51	2.29	+0.15	0.88	4-5	0.5	6	12	7	12	nw.	Dora B. Johnson
Wasola	Ozark	1,294	5	36.3	......	63	25	12	1†	6	4.73	......	1.55	8	*T.*	8	16	5	10	w.	A. W. Pinckney
Division means	**and extremes**	.....	..	**34.8**	**+ 2.9**	**70**	**6**	**0**	**1**	..	**3.24**	**+1.13**	**2.43**	**4-5**	**0.4**	**8**	**11**	**7**	**13**	**sw.**	
Southeastern Division																					
Advance.... ¼ mile W	Stoddard	354	9	36.3	......	60	6	8	27	9	3.49	−0.20	2.20	8	T.	10	7	8	16	s.	U. S. Weather Bureau
Arcadia	Iron	926	65	34.0	+ 2.1	65	18	4	27†	68	1.93	−1.06	0.94	8	T.	6	11	2	18	e.	Arcadia College
Birch Tree... ½ mile E	Shannon	1,000	51	35.6	+ 1.1	60	18†	1	27	52	4.71	+1.53	1.66	8-9	T.	12	16	2	13	nw.	R. C. Moger
Black.......9 miles NW	Iron	1,000	53	34.4[a]	+ 1.8	61	18	− 2	27	53	3.68	+0.98	1.29	9	0	8	14[a]	3[a]	13[a]	w.	Claude Volner
Campbell	Dunklin	311	20	39.4	+ 1.7	65	6	10	27	20	4 99	−0.31	2.20	8	1.0	13	12	7	12	s.	Mrs. Ruth Christian
Cape Girardeau	Cape Girardeau	347	1	37.6	......	61	6	11	27	46	3.18	−0.80	1.29	8-9	*0.1*	10	8	8	15	nw.	Homer R. Bolen
Caruthersville	Pemiscot	265	50	40.7	+ 1.6	71	6	14	27	54	6.76	+1.57	3.40	7-8	*T.*	11	13	5	13	s.	Victor T. Malloure
Crystal City	Jefferson	420	12	36.8	+ 5.4	64	6	5	27	12	1.81	−0.48	0.80	8	1.5§	6	11	5	15	nw.	Richard K. Ragland
Doniphan	Ripley	344	42	38.1	+ 2 3	66	30	3	27	42	4.06	−0.04	2.02	8-9	*T.*	9	13	4	14	sw.	Boyce Lackey
Farmington	St. Francois	896	35	35.9	+ 3.3	61	17	4	27	49	2.61	−0.53	1.01	8	1.6	10	15[a]	1[a]	14[a]	nw.	F. M. Karsch
Greenville	Wayne	460	37	37.8	+ 2.8	63	18†	2	27	39	3.45	+0.13	1.02	8-9	0	6	14	4	13	nw.	Beuford Shoemake
Jackson	Cape Girardeau	428	55	36.3	+ 2.5	59	6†	4	27	56	4.26	+0.32	2 29	8-9	*T.*	9	11	2	18	n.	Danny Siebert
Koshkonong	Oregon	958	45	38.0	+ 1.5	60	25†	7	27	46	4.83	+1.21	1.96	8	T.	10	9	7	15	w.	Mrs Genevieve T. Smith
Licking...... 4 miles N	Texas	1,170	9	35.0	+ 1.9	62	18	1	1	9	2.22	+0.25	0.85	9	0	4	16	2	13	s.	U. S. Forestry Service

Continued on next page

Climatological Data for January 1946—Continued from preceding page

Stations	Counties	Elevation, feet	Temperature, in degrees, Fahr.							Precipitation, in inches						Number of days				Prevailing direction of wind	Observers
			Length of record, years	Mean	Departure from the normal	Highest	Date	Lowest	Date	Length of record, years	Total	Departure from the normal	Greatest in 24 hours [4]	Date	Total snowfall, unmelted	With precip., .01 inch or more	Clear	Partly cloudy	Cloudy		
Southeastern Division—	*Concluded*																				
Marble Hill	Bollinger	532	51	36.5	+ 1.9	63	30	3	27	53	1.73	−2.14	0.73	7–8	*T.*	7	13	5	13	n.	R. A. DeWitt
Poplar Bluff	Butler	339	41	37.9	+ 1.9	*63*	30	7	27	42	3.54§	−0.88	2.69	8–9	0	8	12	10	9	w.	Joe Roehm
Rolla	Phelps	1,202	46	33.5	+ 1.6	58	4†	5	27	62	2.14	−0.32	0.60	4–5	5.0	9	9	10	12	sw.	Rolla School of Mines
St. Louis:																					
City Office		465	109	34.6	+ 3.5	60	30	10	27	109	1.59	−0.75	0.55	8–9	3.5	10	9	6	16	s.	**Section Center**
St. Louis Airport	St. Louis	556	9	33.8	+ 4.0	60	6	4	22	15	1.38	−0.88	0.51	8–9†	6.3	7	9	7	15	s.	U. S. Weather Bureau
St. Louis University	St. Louis City	578	34	34.1	+ 2.1	60	6	9	27	34	1.77	−0.83	0.56	8	6.5	9	12	6	13	w.	St. Louis University
Salem	Dent	1,206	42	34.8	+ 2.2	62	18	0	1	45	2.80	+0.08	0.83	4–5	T.	8	13	6	12	s.	E. E. Martin
Sikeston	Scott	318	39	37.3	+ 0.3	66	6	9	27†	49	5.50	+0.64	3.79	8	*0.7*	14	9	12	10	se.	Mrs. Lucy W. Humphreys
Union 1½ mi. SE	Franklin	520	8	34.2	......	60	4†	0	22	29	2.16§	−0.16	1.07	8	4.2§	8	14	4	13	w.	Cornelius Sieges
Vichy 2 mi. NW	Maries	1,125	10	33.2	......	58	4†	4	1	11	1.97	......	0.90	8–9	0.5	6	10	5	16	w.	Civil Aeronautics Adm.
Wappapello Dam	Butler	475	7	37.2	......	62	18†	8	27	7	3.23	......	2.18	8	T.	12	17	2	12	sw.	U. S. Engineer Office
Weingarten	St. Genevieve	833	5	36.0	......	64	30	4	27	6	2.32	......	0.75	8–9	2.0	6	9	8	14	n.	William J. Miller
West Plains	Howell	1,005	9	35.4	+ 1.4	61	18†	4	7	9	4.77	+1.79	2.33	8	T.	11	9	4	18	nw.	U. S. Weather Bureau
Willow Springs 500 ft E	Howell	1,238	5	36.0	......	62	25	5	27	39	4.20	+1.02	1.40	8–9	*T.*	10	14	3	14	se.	Allen Frazee
Cairo, Ill.	Alexander, Ill.	314	74	38.6	+ 3.7	63	8	13	27	75	4.80	+1.04	3.39	8	0.2	14	7	9	15	sw.	U. S. Weather Bureau
Division means	**and extremes**	.....	..	**36.2**	**+ 2.3**	**71**	**6**	**− 2**	**27**	..	**3.47**	**+0.22**	**3.79**	**8**	**1.1**	**9**	**12**	**5**	**14**	**s.**	
State means	**and extremes**	.....	..	**33.8**	**+ 2.9**	**71**	**6**	**−15**	**1**	..	**3.12**	**+0.80**	**3.79**	**8**	**0.8**	**8**	**12**	**6**	**13**	.	

The departures from normal temperature are computed from the averages of the entire period for stations having 10 or more years of record. Departures of precipitation for stations with 15 years or more of record are computed from a normal or "standard mean", adjusted to a uniform 35-year period; for stations of 10 to 14 years the means for the period of record are used. The normal may be found by adding the departures when minus (−) or subtracting when plus (+). Figures and letters following stations indicate distance in miles and direction of station from the city Post Office, unless otherwise indicated. T. Trace or 0.005 inch or less. [a], [b], [c], etc., number of days missing; for example, [b], indicates two days missing. Italics data interpolated. § Partly interpolated. † And other dates. ‡ Received too late to be included in means and summaries. [4] Best available used for stations not equipped with recorders. Post office address of: Altona is Adrian; Crane Mountain is Arcadia; East End is Goodland; Eastwood Lookout is Van Buren; Ellsinore Lookout is Mill Spring; Hailey is Cassville; High Lookout is Birch Tree; Macedonia Lookout is Doniphan; Perry is Center; Pilot Knob is Ironton; Wilderness Lookout is Lampe.

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lowest was 26.0° at Unionville. The highest reported was 71° at Caruthersville on the 6th, and the lowest was 15° below zero at Tarkio on the 1st.

PRECIPITATION

The average for the State, 198 stations reporting, was 3.12 inches, or 0.80 inch more than the 59-year January average. The greatest monthly amount was 7.37 inches at Caruthersville (river station), and the least was 0.95 inch at Tarkio. The greatest amount reported in 24 hours was 3.79 inches, at Sikeston, on the 8th. The average number of days with 0.01 inch, or more, was 8.

Snowfall averaged 0.8 inch, or 3.6 inches less than the 55-year January average. The greatest monthly snowfall was 7.5 inches at Moselle, while a number of stations reported no snowfall.

MISCELLANEOUS PHENOMENA

Dust.—Light, on 30th.

Floods.—In Black River, at Poplar Bluff, on the 11th. In Grand River, 5th to 12th. In the Mississippi River, in the reach from Keokuk to Grafton, 4th to 20th; on the 22d; in the reach from Chester to below New Madrid, 10th to 26th. In the Osage River, at Lakeside, 13th to 14th and 17th to 18th. In the St. Francis River, at Fisk, 12th to 16th.

Fogs.—Heavy, 1st, 2d, 3d, 4th, 5th, 6th, 8th, 10th, 11th, 12th, 15th, 16th, 19th.

Glaze.—8th, 9th, 11th, 19th, 20th, 21st, 29th, 30th.

Hail.—Light, 4th at Hannibal and Kansas City University; 7th at Caruthersville.

Sleet.—4th, 7th, 8th, 11th, 19th, 20th, 21st, 23d, 24th, 29th, 30th.

Windstorms.—No damaging winds reported, although rather high winds occurred on several days, particularly the 5th, 23d, 25th, and 30th.

ERRATA

May 1945, page 34: Greatest 24-hour precipitation and date at Tarkio should be 2.21 on 13-14th.

December 1945, page 89: Degree days at Springfield should be 1099.

Daily Precipitation for January 1946

Stations	Drainage basins	Day of month																															Total
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Northern Division																																	
Albany	Grand				.25	1.60				.15		.10								.60				.10									2.80
Amity	do				.35	1.65			T.	.37		.13								.18	.01	T.		.07	.01						T.		2.77
Auxvasse	Missouri				.04	.81	.17		.09	1.08		.16								T.	.02			T.	T.					T.			2.37
Bethany	Grand				.43	1.64				.36		.11	T.							.21	.06			.10							T.		2.91
Bowling Green[2]	Mississippi				.02	.67	.30			1.08			.11								.02												2.20
Brookfield[2]	Grand				.20	1.59	.30			.75																							2.84
Browning.....3 mi. NE	do				.43	1.59	.01		T.	.43		.10	T.							T.	T.			.09	.03					T.	T.	T.	2.68
Brunswick[2]	do	.05			.27	2.06	.43			1.01			.20								T.	T.			.07						T.		4.09
Canton, Lock No. 20[2]	Mississippi	T.				1.12	.51			1.02	T.		.12								T.	T.			.13						.02		2.92
Centralia[2]	do	.03			.12	*.75*	*.52*			*1.00*			*.15*												.01								§2.58
Chillicothe[2].....(A)	Grand	*T.*			*	.99	.59			*		*	.60							.10	*				.16								2.44
Chillicothe[2].....(B)	do	T.			.30	.82	.61			.68		.01	.09							.03	.16				.06								2.76
Clifton Hill	Chariton				.58	1.05	.40		*T.*	.59		.20									*T.*			.04	.02	*T.*					.02		2.90
Columbia[1, 5]	Missouri				.43	.69	.17		.47	.53		.12	T.			T.				T.	.02			T.	T					T.	T.	T.	2.43
Columbia ...9 mi. WNW	do				.35	.62	.48		.08	.55		.10	T.							T.	T.			T.	.01					T.	T.		2.19
Conception	do				.46	.83			T.	.08		.10								.30	.03			.03	T.						T.		1.83
Edgerton	do				.50	1.90				.42		.15								.31				.16									3.44
Edina[2]	Mississippi				T.	1.62	.50			.50			.13												.12						.03		2.90
Elsberry S. C. S.[2]	do	.01			T.	.41	.21			.89			.40								.07	.11			T.						T.		2.10
Fayette	Missouri				.47	.90	.35		.04	.40		.13								T.	T.			T.	.01								2.30
Fulton[2]	do	.03				.73	.38			1.05			.12									.05			.02					T.			2.38
Gallatin[2]	Grand	*T.*			*.15*	*1.41*	*.70*			*.58*			*.12*							.05	.16				*.06*								§3.23
Grant City	do				.38	1.30				.06		.16								.29	T.	T.		T.							*.03*	*T.*	§2.22
Hannibal[1].......(A)	Mississippi				.68	.32	.29		.25	.84		.06								T.	.02			T.	.02					T.	T.		2.48
Hannibal[2].......(B)	do	.04			T.	.90	.48	T.		.92			.18									.02			.10						.04		2.68
Hermann[2]	Missouri	.02			T.	.48				1.30			.18									.26			.03								2.27
Kahoka[2]	Mississippi	*T.*				*	.65			1.20	.06		.08												.17						.05	.03	2.24
Kansas City Airport[1, 5]	Missouri				1.23	1.20	.03		.19	.30	T.	.21	T.							.20	T.	T.		.04							T.		3.40
Kansas City University	do				.75	1.83			*	.61		.31								.24	T.			.04									3.78
Kidder[2]	Grand	.02			.05	1.37	1.15			.83		.05	.14							.10	.12				.07	.13							4.03
King City	Missouri				1.02	.97			.04	.32		.42								.96											.03		3.76
Kirksville	Mississippi				.50	1.43	.05			.55		T.												.25							*T.*		2.78
Knoxville[3]	Missouri				1.26	1.14	.07		.06	.25		.43	T.							.26	.01	T.		.03	T.					T.	T.		3.51
LaBelle[2]	Mississippi				1.50	.43				1.08				.18																	T.		3.19
Lawson	Missouri				.86	1.87	.06		T.	.51		.24								.28	.02	T.		.16	.06						T.	*T.*	4.06
Linneus	Grand				.14	1.61				.69		.05												.10									2.59
Louisiana.......(A)	Mississippi				.03	.72	.20	.02	.13	1.23		.17								.05	*.10*												§2.65
Louisiana[2].......(B)	do	.01				.71	.44			1.32			.12								.01	.03			.01								2.65
Lucerne[2]	Grand					1.11	.69			.40			T.							T.					.10								2.30
Macon[2]	Chariton	T.			.19	1.69	.58			.60			.11								T.	T.			.08						T.		3.25
Madison[2]	Mississippi				*	.93	.48			.51			.09												.02								2.03
Martinsburg[2]	Missouri	T.			T.	.60	.30			1.29			.14								.01	.02			T.						T.		2.36
Maryville	do				.23	.65				.02		.12								.23	.05			.09	T.						T.	.02	1.41
Memphis[2]	Mississippi				.03	1.83	.32			.37			.02												*.06*						.07	*T.*	§2.70
Mexico[2]	do					.80	.49			1.50			.18									*.08*											§3.05
Milan[2]	Grand				.16	1.03	.45			.62			.07												.16								2.49
Moberly[2] ....3½ mi. NE	Mississippi				.20	.70	.55			.60			.12								T.	T.			*.02*						T.		§2.19
Monroe City	do				.23	.84	.31		.07	1.11		.09								.03					*T.*						T.		2.68
New Florence[3, 5] 1 mi SE	Missouri			T.	.17	.49	.01		.58	.92		.19	T.							T.	.05			T.	T.					T.	T.	T.	2.41
Oregon	do				.10	.56						.31									*T.*			.31							T.		1.28
Palmyra	Mississippi				.50	.50	.68		*	.95		*	.03											*	.10								2.76
Paris[2]	do	.01			.26	.76	.62			1.06			.06								.02	T.			.05						T.		2.84
Perry ....1 mile E	do				.23	.75	.35		.05	.90		.12								.05											.03		2.48
Philadelphia	do				*1.00*	*.60*	*.20*			1.40		.30									*T.*			T.									§3.50
St. Charles[2].....(A)	Missouri	.07				.50				1.09			*.12*							.02		*.15*			T.						.15		§2.10
St. Charles[2].....(B)	do	.07			T.	.14	T.	T.		.60	.01		.67								T.	.33			T.						T.		1.82
St. Joseph[1, 5]	do				.50	.84			.31	.12		.23								.26	T.	T.		.09							T.		2.35
Saverton, Lock No. 22[2]	Mississippi	T.			.01	.57	.46			.96			.15								T.	T.			.02						.01		2.18
Shelbina	do				.63	.91	.24		T.	.70		*	.18								T.			T.	.04					T.	T.		2.70
Shelbyville[2]	do					1.34	.81			.64			.18																				2.97
Steffenville	do				.77	1.05	.33		T.	.81		.13								.01	T.				.05					T.	T.		3.15
Tarkio[3]	Missouri				.04	.41			T.			.15								.34	T.	T.		T.							.01		0.95
Trenton[2]	Grand				.10	1.57	.75			.55		T.	.13							T.	.14				.06						T.	T	3.30
Troy[2]	Mississippi	.02			T.	.18	.02			.89			.30								T.	.12									T.	T.	1.53
Unionville[2]	Chariton				.17	.91	.65			.52			.10								.05				.21						.05		2.66
Vandalia	Mississippi				T.	.75	.35		1.00			.20	.05							T.	T.												2.35
Warrenton	do				T.	.39	T.		.06	1.23		.28								T.	.18	T.			T.					T	T.		2.14
Keokuk, Iowa[1]	do				.58	.60	.32		.15	.52		.09								T.				.09	.04					.03	.01	T.	2.43
Southwestern Division																																	
Altona[2]	Osage				T.	1.62	.86			.80		.17	.18							.28		T											3.91
Anderson[2] ...1½ mi. SW	Neosho					1.92	.48			1.30		.32	.11							.04	.33	.05								T.			4.55
Appleton City	Osage				.13	2.00	.72			.45		.33								.12	T.			T.			T.						3.75
Ava Ranger Station[2]	White			T.	T.	1.15	.12	.22	.16	1.29		.36									*.50*									T.	T.	T.	§3.80
Bolivar	Osage				.11	1.08	.08		.07	.70		.37	T.								.48	.02		T						T.			2.91
Boonville[2] ......(A)	Missouri	.16			.56	.42	.71			.47			.10																				2.42
Boonville[2] ......(B)	do	.05			.24	.59	.56			.94			.12									T.			.03								2.53
Bradleyville[2]	White					1.38	.11	.16	.48	1.40		.36	.19								.63	.15											4.86
Buffalo[2]	Osage					.42	.31			.56		*	.31								.20	.16											1.96
Butler[2]	do					1.80	.80			1.20		*	.20							.20	T.				T					T.			4.20
Caplinger Mills[2]	do				T.	1.00	.36			.29		.15	.20							.03	.13	.04			T.	T.							2.20
Carthage	Neosho				.58	1.58				.91		.31								.05	.19												3.62
Cassville[2]	White					1.08	.25	.16	.05	1.06	*	*	.45								.50	.10											3.65
Clinton[3]	Osage				.46	1.59	.36		.26	.27		.40	T.			T.				.07	.04			T.	T					T.			3.45
Concordia	Missouri				*	2.62			*	.59		.25								.06	T.			T.	.04						T.		3.56
Crocker	Osage				.04	.68			.06	1.05		.33									.39												2.55
Eldon	Missouri				.13	.72	.13		.07	.43		.15								T.	.21	T.			T.					T.			1.84
Eldorado Springs	Osage				1.13	.23	.27		.05	.30		45								.06	.10			T.									2.59
Elijah[2]	White					1.68	.25	.18	.58	1.30		.15	.27								.75	.05								T.			5.21
Forsyth[2] ‡	do					1.13		.32	.34	1.34		.27	.28								.58	.07								T.			4.33
Fort Leonard Wood[2]	Gasconade	.02				.67			.08	1.30			.32								.06	.04											2.49
Galena[2] ‡	White					.84	.52	.13	.07	.95	*T.*	.24	.10								.50	.06											3.41
Granby[2]	do					2.30	.04			1.00												.10											3.44
Hailey	do				.74	1.23			1.32	.17		.75								T.							.02						4.23
Harrisonville[2]	Osage					1.62	.80			.59		.08	.33							.25			T.		.07								3.74
Jefferson City ...(A)	Missouri				.05	.52	.54		.25	.80		.03									.12			.01	T.					T.			2.32
Jefferson City[2]...(B)	do	.03		T.		.49	.43			1.03			.14								.03	.10			.07								2 32
Joplin[1]	Neosho				.83	1.05			.45	.05		.33								.30	.05		T										3.06
Lakeside[2, 5]	Osage	.01			T.	.52	.32			.70			.18								.13	.09			.04						T.		1.99

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Daily Precipitation for January 1946—Continued from preceding page

Stations	Drainage-basins	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Total
Southwestern Division—	*Concluded*																																
Lamar[2]	Neosho	....	....	....	....	1.32	.44	....	....	.77	....	.07	.25	....	....	....	....	....	....	T.	.05	....	....	....	....	....	....	....	....	....	....	....	2.90
Lebanon	Osage	....	....	....	.06	.71	....	.01	T.	....	....	.30	.80	....	....	....	....	....	....	....	.42	....	....	T.	....	....	....	....	....	T.	T.	....	2.30
Lexington[2]	Missouri	....	....	....	....	*2.07*	.45	....	....	.68	....	....	.30	....	....	....	....	....	....	.22	T.	....	....	....	*T.*	....	....	....	....	....	....	....	§3.72
Lockwood	Osage	....	....	....	.10	.82	.16	....	.12	.58	....	.32	....	....	....	....	....	....	....	T.	.28	....	....	....	....	....	....	....	....	T.	....	....	2.38
Mansfield[2]	White	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Marshall	Missouri	....	....	....	.20	1.60	.34	.01	T.	1.10	....	*	.15	....	....	....	....	....	....	T.	T.	....	....	T.	*T.*	....	....	....	....	....	T.	*T.*	3.40
Marshfield[2]	White	....	....	.01	T.	.81	.08	.11	.01	.64	.01	.14	.34	....	....	....	....	....	....	....	.45	T.	....	....	....	....	....	....	....	....	.02	....	2.62
Mountain Grove[2]	Gasconade	.02	....	....	....	1.10	.10	.16	.23	.87	....	.04	.37	....	....	....	....	....	....	....	.70	.26	....	....	....	....	....	....	....	....	.04	....	3.89
Mount Vernon[2]	Neosho	....	....	....	....	.65	.20	T.	....	.67	....	.25	....	....	....	....	....	....	....	T.	.28	.08	....	....	....	....	....	....	....	T.	....	....	2.13
Neosho	do	....	....	.01	.23	1.71	.03	.02	.08	.74	....	.38	T.	....	....	....	....	....	....	.10	.24	....	....	....	.03	....	*T.*	....	....	.03	....	....	3.60
Nevada	Osage	....	....	....	.29	1.81	.64	....	.10	.69	....	.41	....	....	....	....	....	....	....	.08	.05	....	....	....	....	....	T.	....	....	....	....	....	4.07
Osceola[2]	do	....	....	....	....	1.02	1.13	....	....	.73	....	.03	.26	....	....	....	....	....	....	.03	.07	.03	....	....	....	....	....	....	....	....	....	....	3.30
Ozark[2] ‡	White	....	....	....	....	1.08	....	.28	....	.81	T.	.31	T.	....	....	....	....	....	....	....	.47	.05	....	....	....	....	....	....	....	T.	....	....	3.00
Ozark Beach[2]	do	....	....	....	....	1.16	....	.33	.33	1.41	....	.28	.24	....	....	....	....	....	....	....	.56	*T.*	....	....	....	....	....	....	....	....	....	....	4.31
Pierce City[2]	Neosho	....	....	T	....	.72	.11	....	....	1.16	....	.35	T.	....	....	....	....	....	....	....	.31	.13	....	....	....	....	....	....	....	....	....	....	2.78
Pleasant Hill[2]	Osage	.01	....	....	....	1.66	.90	....	....	.66	....	.05	.29	....	....	....	....	....	....	.23	....	T.	....	....	.16	....	....	....	....	....	....	....	3.96
Roby	Gasconade	....	....	....	.11	.85	.05	.20	.26	1.02	....	.39	....	....	....	....	....	....	....	....	.61	.03	....	....	....	....	....	....	....	T.	T.	....	3.52
St. Thomas[2]. 2¼mi SW	Osage	....	....	....	....	.75	.15	....	....	1.09	....	....	*.27*	....	....	....	....	....	....	....	*.14*	*.09*	....	....	*.03*	....	....	....	....	....	....	....	§2.52
Saunders Lookout[2]	White	....	....	T.	T.	1.20	.03	.20	.07	.70	.50	.40	.15	....	....	....	....	....	....	....	.41	....	....	....	....	....	....	....	....	.03	T.	....	3.69
Sedalia	Missouri	....	....	....	.15	1.53	.47	....	.07	.62	....	.20	....	....	....	....	....	....	....	....	T.	....	....	.01	.02	....	....	....	....	....	....	....	3.07
Seligman[2]	Neosho	....	....	T.	....	.99	.22	.21	.07	1.13	....	.40	T.	....	....	....	....	....	....	....	.52	.07	....	....	....	....	....	....	....	....	....	....	3.61
Seymour[2]....3½ mi. NE	White	T.	....	T.	T.	1.30	.20	.28	.08	.75	....	....	.40	....	....	....	....	....	....	....	.57	.07	....	....	....	....	....	....	....	....	T.	....	3.65
Shell Knob[2]...3 mi. SE	do	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Siloam Sprgs Lookout[2]‡	do	....	....	....	....	1.19	.16	....	.45	1.44	....	....	.42	....	....	....	....	....	....	....	.62	.04	....	....	....	....	....	....	....	....	....	....	4.32
Spriugfield[1,5]. 4 mi. NW	do	....	....	T.	.55	.70	.03	....	.82	.03	....	.44	T.	....	....	T.	....	....	T.	.13	.25	....	....	T.	T.	....	....	....	....	T.	....	....	2.95
Stover[2]	Missouri	*.03*	....	....	....	.12	.77	.62	....	.56	....	....	.18	....	....	....	....	....	....	....	....	*.07*	....	....	....	....	....	....	....	....	....	....	§2.35
Swan Tower Lookout[2]	White	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Sweet Springs	Missouri	....	....	....	.30	1.61	.35	....	T.	.67	....	.22	.03	....	....	....	....	....	....	.04	.01	....	....	.03	.02	....	....	....	....	....	....	....	3.28
Tecumseh[2]. ..¼ mi. W	White	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Topaz[2]	do	....	....	....	....	1.00	....	.15	.64	.91	....	.22	.15	....	....	....	....	....	....	....	.65	T.	....	....	....	....	....	....	....	T.	....	....	3.72
Vanzant[2]‡...3¾ mi. SE	do	....	....	....	....	1.19	.08	.24	.52	.40	....	.33	.12	....	....	....	....	....	....	....	.73	.05	....	....	....	....	....	....	....	*T.*	.08	....	3.74
Warrensburg	Missouri	....	....	....	.18	2.43	.15	....	T.	.38	....	.33	....	....	....	....	....	....	....	.02	.03	....	....	.01	T.	....	....	....	....	....	....	....	3.53
Warsaw[2].........(A)	Osage	T.	....	....	.04	.84	.62	....	....	.48	....	....	.21	....	....	....	....	....	....	T.	.10	T.	....	T.	T.	....	....	....	....	T.	....	....	2.29
Warsaw[2].........(B)	do	....	....	....	....	.63	.92	....	....	.46	....	....	.23	....	....	....	....	....	....	....	.15	.02	....	....	T.	....	....	....	....	....	....	....	2.41
Wasola[2]	White	....	....	....	....	1.51	.11	.29	*	1.55	....	.22	.33	....	....	....	....	....	....	....	.72	T.	....	....	....	....	....	....	....	*T.*	....	....	4.73
Waverly[2]	Missouri	.07	....	....	.06	1.83	.75	....	....	.50	....	....	.21	....	....	....	....	....	....	T.	T.	....	....	....	T.	....	....	....	....	....	....	....	3.42
Wilderness Lookout[2]‡	White	....	....	....	....	1.24	.02	.14	.22	1.30	T.	.27	.26	....	....	....	....	....	....	....	.50	.12	....	....	....	....	....	....	....	T.	....	....	4.07
Southeastern Division																																	
Advance[3].....¼ mile W	St. Francis	T.	.02	.01	.04	.15	.12	T.	2.20	T.	....	.33	....	....	....	....	....	....	....	.01	.56	T.	....	T.	T	....	....	....	....	.05	T.	....	3.49
Alton(1)....10 miles SE	Black	....	....	....	.06	.44	....	.05	1.47	1.08	....	.63	....	....	....	....	....	....	....	....	.54	.02	....	....	....	....	....	....	....	.02	....	....	4.31
Alton(2)[2] ...7 miles NE	do	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Annapolis[2]‡....7 mi. W	do	.03	....	....	....	.40	.08	.16	.23	1.60	....	.14	.33	....	....	....	....	....	....	....	.33	.19	....	....	....	....	....	....	....	.08	....	....	3.57
Arcadia[2]	St. Francis	T.	....	....	.37	.07	....	....	.30	.64	....	.11	....	....	....	....	....	....	....	....	.44	....	....	....	....	....	....	....	....	....	....	....	1.93
Belleview[2] ‡	Meramec	T.	....	....	T.	.59	.18	....	.03	1.34	....	.02	.50	....	....	....	....	....	....	....	.27	.21	....	....	....	....	....	....	....	....	.01	....	3.15
Bernie[2]	St. Francis	....	....	.22	.31	.21	.46	....	.80	2.76	....	.11	.21	.25	....	....	....	....	....	....	.31	T.	.29	T.	....	.11	....	....	....	....	.25	....	6.29
Birch Tree[2] ...½ mile E	Black	.01	....	T.	.01	.78	.12	.21	.51	1.66	....	.08	.56	....	....	....	....	....	....	....	.68	.06	....	....	T.	....	....	....	....	....	.03	....	4.71
Black...... 9 miles NW	do	....	....	....	.23	.80	....	.08	.25	1.29	....	.50	....	....	....	....	....	....	....	....	.48	....	....	....	....	....	....	....	....	.05	....	....	3.68
Bloomfield[2]	St. Francis	T.	....	....	....	.24	.22	.18	.36	2.72	.03	.16	.29	....	....	....	....	....	....	....	.52	.17	....	....	T.	....	....	....	.07	....	....	....	4.96
Bunker[2]‡.. 4 miles NW	Black	.03	....	....	.08	.97	.08	....	....	1.42	T.	....	....	....	....	....	....	....	....	....	.42	.34	....	....	....	....	....	....	....	....	....	....	3.34
Campbell	St. Francis	.02	.03	.04	.05	.15	....	.40	2.20	.98	....	.45	....	....	....	....	....	....	....	....	.58	.02	....	....	....	....	....	....	....	.02	.05	....	4.99
Cape Girardeau..(A)	Mississippi	....	T.	T.	.03	.10	....	.15	.95	1.29	....	.32	T.	....	....	....	....	....	....	....	.27	.01	....	....	.03	....	....	....	....	T.	.03	....	3.18
Cape Girardeau[2].(B)	do	T.	....	T	T.	.03	T.	.18	.23	2.10	....	T.	.26	....	....	....	....	....	....	....	T.	.23	....	....	.04	....	....	....	....	....	.02	T.	3.09
Caruthersville ..(A)	do	....	.08	.05	T.	.13	....	.72	3.40	.66	....	.64	....	....	....	....	*T.*	....	....	....	.73	.05	....	....	....	....	....	....	....	.10	.20	....	6.76
Caruthersville[2] ..(B)	do	....	....	.15	.03	.03	....	.90	1.30	3.10	....	.42	.28	T.	....	....	....	....	....	....	.36	.50	....	....	....	....	....	....	....	....	.30	....	7.37
Centerville(1)[2]	Black	.05	....	.02	....	.75	.05	.15	.25	2.00	....	.15	.45	....	....	....	....	....	....	....	.30	.30	....	....	....	....	....	....	....	....	.05	....	4.52
Centerville(2)[2]	do	.01	....	....	T.	.68	.07	.08	.12	2.01	....	.04	.42	....	....	....	....	....	....	....	.32	.18	....	....	....	....	....	....	....	....	.05	....	3.98
Cook Station[2]	Meramec	*.03*	....	....	....	.36	.10	.18	....	.85	....	*	.51	....	....	....	....	....	....	....	.24	.06	....	....	....	....	....	....	....	....	....	....	§2.33
Crane Mountain[2]	St. Francis	T.	....	....	....	.25	.06	.16	.29	1.06	....	.42	.02	....	....	....	....	....	....	....	.37	.08	....	....	....	....	....	....	....	.02	.03	....	2.76
Crystal City	Mississippi	....	....	....	T.	.20	....	....	*	.80	....	.45	....	....	....	....	....	....	....	....	*	.36	....	....	T.	....	....	....	....	*T.*	....	....	1.81
Cuba	Meramec	....	....	....	.03	.32	....	.06	.04	.94	....	.50	....	....	....	....	....	....	....	....	.38	.04	....	T.	....	....	....	....	....	....	....	....	2.31
Deering[2]	St. Francis	....	....	.07	.08	T.	T.	.58	1.27	3.03	....	.25	.23	....	....	....	....	....	....	....	.57	.20	....	....	....	....	....	....	....	....	.07	T.	6.35
De Soto[2]	Mississippi	.03	....	....	....	.30	T.	.06	.05	.71	....	.02	.49	....	....	....	....	....	....	....	.08	.32	....	....	*T.*	....	....	....	....	....	T.	....	2.06
Dexter[2]	St. Francis	.03	....	.05	.05	.14	.19	.31	.27	2.89	.04	.06	.41	....	....	....	....	....	....	....	.36	.38	....	....	.04	....	....	....	....	....	.06	....	5.28
Doniphan(1)	Black	....	T.	....	.10	.61	....	....	2.02	.23	....	.62	....	....	....	....	....	....	....	....	*	.40	....	....	....	T.	....	....	....	.05	.03	....	4.06
Doniphan(2)[2]	do	....	....	.07	T.	.20	.13	.06	.50	2.24	....	.30	T.	....	....	....	....	....	....	....	.60	.09	....	....	....	....	....	....	....	T.	.10	....	4.29
East End[2]	Meramec	.02	....	....	....	.78	.22	.03	.03	1.30	....	....	.51	....	....	....	....	....	....	....	.25	.26	....	....	....	....	....	....	....	....	.02	....	3.42
Eastwood Lookout[2]	Black	.03	....	....	....	.05	.45	....	.35	2.07	....	.33	.05	....	....	....	....	....	....	....	*	.35	....	....	....	....	....	....	....	.02	.02	....	3.72
Ellington[2]‡	do	T.	....	....	....	.70	.12	.22	.22	2.25	....	.12	.48	....	....	....	....	....	....	....	.50	.14	....	....	....	....	....	....	....	....	.06	....	4.81
Ellsinore Lookout[2]	do	T.	....	.09	....	.06	.31	.18	.27	2.18	....	.42	....	....	....	....	....	....	....	....	....	.11	T.	....	....	....	....	....	....	....	.10	....	3.75
Farmington[2]	St. Francis	.01	....	....	....	.26	.14	.04	.03	.98	....	....	.51	....	....	....	....	....	....	T.	.10	.50	....	....	....	....	....	....	....	....	.04	....	2.61
Fisk[2]	do	....	....	....	....	.16	T.	.24	.56	2.00	....	.15	.23	....	....	....	....	....	....	....	.18	.18	....	....	....	....	....	T.	....	T.	.09	....	3.79
Fredericktown[2]	do	T.	....	....	....	.02	.04	....	.11	1.09	....	.02	.37	....	....	....	....	....	....	....	.26	.18	....	....	....	....	....	....	....	....	T.	....	2.09
Gerald[2]	Meramec	*T.*	....	....	....	.30	T.	....	....	1.00	....	....	.55	....	....	....	....	....	....	....	.11	.35	....	....	*T.*	....	....	....	....	....	....	....	2.31
Greenville(1)	St. Francis	....	....	....	....	.30	....	.20	.98	1.02	....	.52	....	....	....	....	....	....	....	....	.43	....	....	....	....	....	....	....	....	T.	....	....	3.45
Greenville[2](2)	do	.01	....	.01	.01	.07	.15	.10	.12	1.93	....	.18	.31	....	....	....	....	....	....	....	.24	.17	....	....	....	....	....	....	....	....	.06	....	3.36
High Lookout[2]	Black	T.	....	.01	.07	.67	.08	.26	.50	1.69	....	.25	.24	....	....	....	....	....	....	....	.51	.02	....	....	....	....	....	....	....	....	.03	....	4.33
Jackson	Mississippi	....	....	....	.26	.19	.17	....	1.17	1.12	....	.38	....	*T.*	....	....	....	....	....	....	.62	....	....	....	....	....	....	....	....	.12	.23	....	4.26
Jefferson Barracks[2]	Mississippi	.08	....	....	....	.16	.03	....	....	.53	....	....	.43	....	....	....	....	....	....	T.	....	.38	....	....	T.	....	....	....	....	....	T.	....	1.61
Jerome[2]	Gasconade	.12	....	....	....	.72	....	....	....	.92	....	....	.36	....	....	....	....	....	....	....	.18	.34	....	....	....	....	....	....	....	....	....	....	2.64
Koshkonong[2]	Black	*T.*	....	.03	.02	.72	.07	.23	.64	1.96	....	.25	.01	....	....	....	....	....	....	....	.90	T.	....	....	....	....	....	....	....	*T.*	*T.*	....	4.83
Leeper[2]	do	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Licking(1)... 4 miles N	Gasconade	....	....	....	....	.62	....	....	....	.85	....	.15	....	....	....	....	....	....	....	....	.60	....	....	....	....	....	....	....	....	....	....	....	2.22
Licking(2)[2] ‡	do	.03	....	....	....	.56	.17	.24	.07	.83	.02	.10	.35	....	....	....	....	....	....	....	.51	.14	....	....	....	....	....	....	....	*T.*	.04	....	3.06
Macedonia Lookout[2]	Black	....	....	.02	.06	.23	.04	.05	.40	2.03	....	.29	.25	....	....	....	....	....	....	....	.30	.03	....	....	....	....	....	....	....	....	.04	....	3.74
Marble Hill	Mississippi	....	....	....	....	.13	.07	....	.50	.23	....	.36	....	....	....	....	....	....	....	T.	.37	*T.*	....	....	....	....	....	....	....	.07	....	....	1.73
Meramec Park[2]	Meramec	.03	....	....	....	.19	.02	.07	....	1.39	.01	....	.51	....	....	....	....	....	....	....	.12	.27	....	....	.01	....	....	....	....	T.	T.	....	2.62
Morehouse	Mississippi	T.	T.	T.	.04	.03	....	.37	1.84	1.26	....	.37	....	....	....	....	....	....	....	....	.30	.03	....	....	T.	....	....	....	....	T.	....	....	4.24
Moselle[2]	Meramec	.03	....	....	....	.17	.05	.06	....	.85	....	....	.35	....	....	....	....	....	....	....	.03	.39	....	....	....	....	....	....	T.	....	....	....	1.93
New Madrid[2]	Mississippi	T.	....	T.	....	T.	.15	.52	.76	2.33	T.	.12	.27	....	....	....	....	....	....	....	.27	.35	....	....	.15	....	....	....	....	....	.15	T.	5.07
Oates Tower‡	Black	....	....	....	.25	.15	....	.05	.20	.29	....	.33	....	....	....	....	....	....	....	....	.32	*T.*	....	....	T.	....	....	....	....	T.	T.	....	1.59
Owensville[2]	Gasconade	.05	....	....	....	*	.38	....	....	1.01	....	....	.48	....	....	....	....	....	....	....	*	.50	....	....	....	....	....	....	....	....	.02	....	2.44
Pacific[2]	Meramec	.10	....	....	....	*.20*	*.06*	....	....	.90	....	....	.65	....	....	....	....	....	....	....	*	.29	....	....	*.02*	....	....	....	....	....	....	....	§2.22
Parma[2]	St. Francis	T.	....	....	.08	.06	.05	.32	.72	2.80	....	....	.41	....	....	....	....	....	....	....	.22	.20	....	....	.02	....	....	....	....	....	.06	....	4.94
Perryville	Mississippi	....	....	*T.*	*T.*	.10	....	....	.62	.82	....	.45	....	....	....	....	....	....	....	*T.*	*	.52	....	....	....	....	....	....	....	....	....	....	2.51
Pilot Knob[2]... 2 mi. NE	St. Francis	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Poplar Bluff[2]....(A)	Black	....	....	....	....	T.	.02	....	.56	2.03	.18	.27	....	....	....	....	....	....	....	....	*.38*	*.07*	....	....	....	T.	....	....	....	....	*.03*	....	§3.54
Poplar Bluff[2]....(B)	do	.03	....	.01	.02	.04	.04	.08	.56	2.03	....	.18	.27	....	....	....	....	....	....	....	.38	.07	....	....	T.	....	....	....	....	....	.03	....	3.74
Puxico[2]	St. Francis	T.	....	.04	.01	.04	.11	.10	.14	2.30	....	.06	.30	....	....	....	....	....	....	....	.20	.32	....	....	....	....	....	....	....	....	.05	....	3.67
Qulin[2]	do	T.	....	.06	.04	.11	.07	.22	.70	2.40	T.	.20	.27	....	....	....	....	....	....	....	.28	.38	....	....	T.	....	....	....	....	....	.04	....	4.77
Reynolds[2]‡	Black	.03	....	....	....	.84	.14	.08	.26	1.33	....	.11	.34	....	....	....	....	....	....	....	.48	.06	....	....	....	....	....	....	....	....	T.	....	3.67
Richwoods[2]	Meramec	.02	....	....	....	.29	*	.09	....	1.03	....	....	.57	....	....	....	....	....	....	....	.40	.40	....	....	T.	....	....	....	....	....	....	....	2.80
Rolla[2]	do	.04	....	....	....	.60	....	.08	....	.53	....	.10	.30	....	....	....	....	....	....	....	.15	.30	....	....	.04	....	....	....	....	....	T.	....	2.14

Continued on next page

Daily Precipitation for January 1946—Continued from preceding page

Stations	Drainage-basins	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Total
Southeastern Division — Concluded																																	
Round Spring[2]	Black	.20	....	....	....	1.10	.11	....	.47	.86	....	.42	....	....	....	....	....	....	....	....	.53	....	....	....	....	....	....	....	....	....	....	....	3.69
St. Louis:																																	
City Office[1],[5]	Mississippi	....	....	T.	.16	.03	T.	.02	.50	.05	....	.52	.01	....	....	....	....	....	....	T.	.28	....	....	T.	.01	....	....	....	....	.01	....	T.	1.59
Airport[3],[5]	Missouri	T.	....	....	.05	.02	T.	....	.46	.05	....	.51	T.	....	....	....	....	....	....	T.	.28	....	....	T.	.01	....	....	....	....	T.	T.	T.	1.38
St. Louis Univ.[1],[5]	Mississippi	....	....	T.	.20	.03	.01	T.	.56	.05	T.	.38	....	....	....	T.	....	....	....	T.	.48	....	....	....	.04	....	....	....	....	.02	....	....	1.77
Washington Univ.[2]	...do	.09	....	....	....	.17	....	.01	....	.53	....	....	.50	....	....	....	....	....	....	....	.02	.23	....	....	.01	....	....	....	....	....	....	....	1.56
Salem	Meramec	....	....	....	.11	.72	....	.20	.14	.58	....	.49	....	....	....	....	....	....	....	T.	.48	T.	....	....	T.	....	....	....	....	.08	....	....	2.80
Sikeston[2]	Mississippi	.02	....	.02	.02	.06	.09	.40	.73	3.06	T.	.15	.39	....	....	T.	....	....	....	....	.13	.30	....	....	.06	....	....	....	....	....	.07	....	5.50
Steelville[2] ...2½ mi. NE	Meramec	.02	....	....	....	T.	.28	.12	....	1.05	....	....	.58	....	....	....	....	....	....	....	....	.32	....	....	....	....	....	....	....	*T.*	.01	....	2.38
Summersville[2] ‡	Black	T.	....	....	.08	1.15	.10	.05	.30	1.04	....	T.	.44	....	....	....	....	....	....	....	.60	.16	....	....	....	....	....	....	....	T.	T.	....	3.92
Union[2] ....1½ mi. SE	Meramec	*.06*	....	....	....	.18	.06	....	....	1.07	....	....	.49	....	....	....	....	....	....	....	.04	.22	....	....	.04	....	....	....	....	....	*T.*	....	§2.16
Valley Park[2]	...do	*.15*	....	....	....	.26	.09	T.	....	.75	....	....	.51	....	....	....	....	....	....	....	T.	.30	....	....	....	....	....	....	....	....	T.	....	§2.06
Van Buren[2]‡	Black	.05	....	....	....	.35	.05	*	.45	2.30	....	....	.35	....	....	....	....	....	....	....	.38	.07	....	....	....	....	....	....	....	T.	.03	....	4.03
Vichy[3] .....2 miles NW	Meramec	....	....	T.	.17	.15	T.	....	.82	.08	....	.35	T.	....	....	....	....	....	....	T.	.40	....	....	T.	T.	....	T.	....	....	T.	T.	....	1.97
Wappapello Dam[2]	St. Francis	T.	....	.02	.02	.10	.05	.05	.41	1.77	....	.13	.23	....	....	....	....	....	....	....	.23	.18	....	....	....	....	....	....	....	T.	.04	....	3.23
Webster Groves	Mississippi	....	....	....	.01	.16	....	T.	.09	.42	....	.45	....	....	....	....	....	....	....	....	.35	T.	....	....	....	....	....	....	....	T.	T.	....	1.48
Weingarten	...do	....	....	....	....	.20	....	....	.25	.75	....	.50	....	....	....	....	....	....	....	....	.52	.10	....	....	....	....	....	....	....	....	....	....	2.32
West Plains[3]	Black	....	T.	.01	.55	.56	.08	.07	2.33	.01	....	.40	....	....	....	....	....	....	....	.24	.51	T.	....	....	....	....	T.	....	....	.01	T.	....	4.77
Williamsville[2]	...do	....	....	....	....	.58	.41	.20	1.14	2.22	....	.36	....	....	....	....	.16	....	....	....	.68	.38	T.	....	....	....	....	....	....	.02	....	....	6.15
Willow Springs[2] 500 ft E	White	....	....	....	1.03	.12	....	.12	.35	1.40	....	*	.42	....	....	....	....	....	....	....	.64	.03	....	....	....	....	....	....	....	....	.09	....	4.20
Winona Ranger Sta.[2]	Black	.02	....	....	....	1.05	....	.28	.48	1.50	....	....	....	....	....	....	....	....	....	....	.67	.05	....	....	....	....	....	....	....	.03	.03	....	4.11
Zalma[2]	Mississippi	....	....	....	T.	.09	T.	.15	.38	1.86	T.	.05	.28	....	....	....	....	....	....	....	.03	.24	....	....	....	....	....	....	....	....	.05	T.	3.13
Cairo, Ill.[1],[5]	...do	....	T.	.03	.01	.11	.27	.02	3.39	.01	....	.33	T.	....	....	....	....	....	....	....	.49	.01	....	.06	.01	....	T.	....	....	.04	.02	....	4.80

Except as otherwise indicated, amounts are for 24 hours ending late in afternoon. [1] Midnight to midnight. [2] Measured in the morning; for the preceding 24 hours. [3] Data for 24 hours ending 12:30 A. M. (C. S. T.) of following day. [5] Recording gage. T. Trace or 0.005 inch or less. * Included in next measurement. // Windshield on gage. Italics data interpolated. § Partly interpolated. (A) Record from cooperative station gage. (B) Record from river station gage. ‡ Received too late to be included in means and extremes.

Daily Evaporation (inches), Mean Temperature (F°), and Wind Movement (miles) for January 1946

(See precipitation data in daily precipitation table)

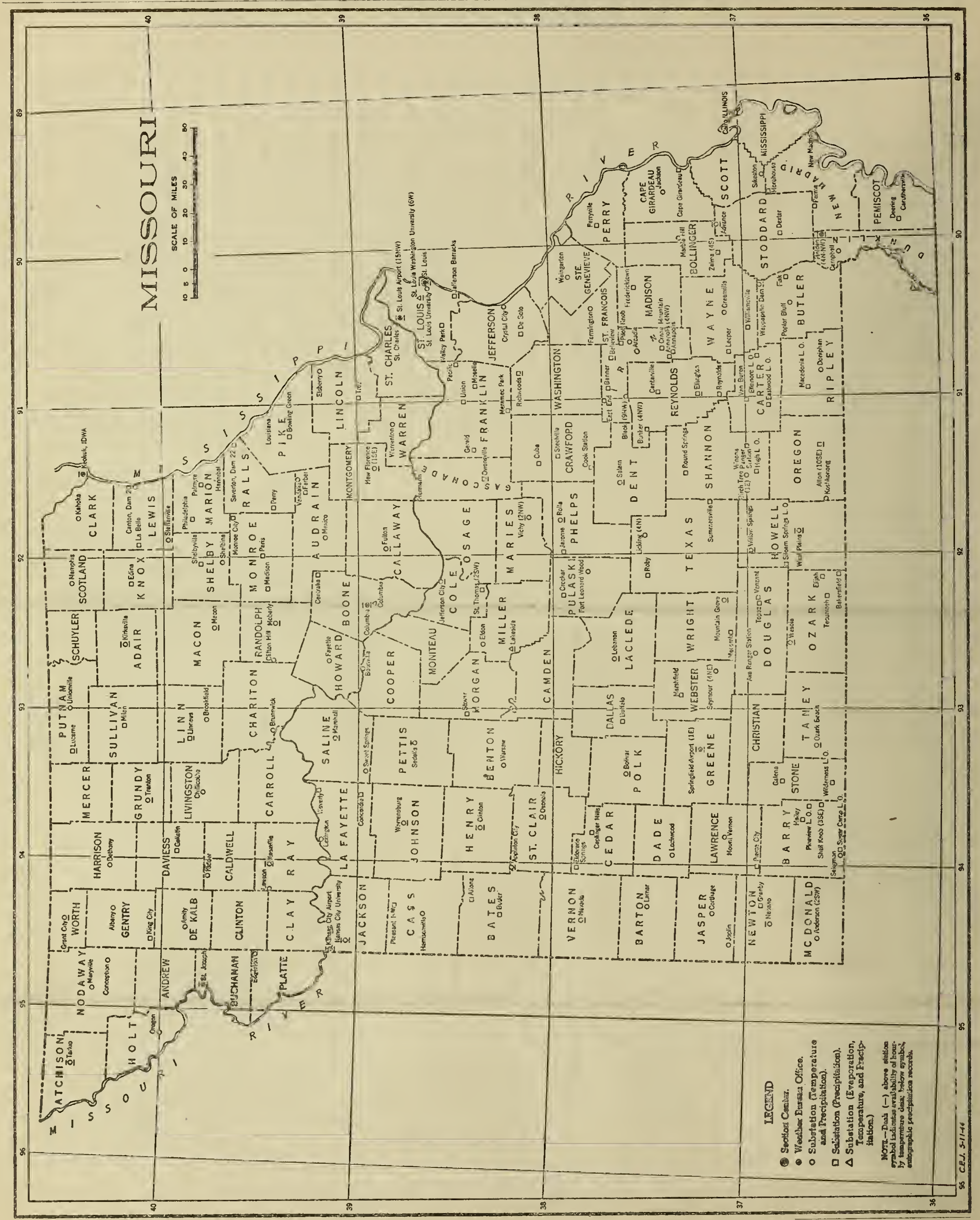
Station	Data	Day of month																															Monthly
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Columbia (Univ. of Mo. Hort. Exp. Sta. 9 mi. WNW.)	Evaporation	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.....
	Mean temperature	14	30	32	43	52	46	37	30	36	32	32	30	30	38	28	27	33	42	39	31	21	25	36	28	38	22	22	36	34	36	23	32.4
	Wind movement	56	49	39	97	199	84	93	103	157	59	25	134	61	138	152	28	31	102	54	128	169	86	221	199	145	209	105	122	90	256	235	3,626
Lakeside (Osage Dam)	Evaporation	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.....
	Mean temperature	20	27	36	46	56	50	40	34	37	34	34	34	33	34	28	30	32	38	42	34	26	28	29	36	40	28	23	31	33	42	32	34.4
	Wind movement	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
St. Louis (Washington University)	Evaporation	....	....	....	....	....	....	.010	.022	.006	.017	.002	.000	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.....
	Mean temperature	18	24	36	46	52	54	32	40	36	33	33	34	29	36	28	28	34	40	36	32	18	18	24	32	38	14	24	28	34	46	26	32.3
	Wind movement	42	19	47	30	85	104	51	76	81	37	21	38	44	40	70	107	21	23	33	56	89	26	70	80	57	116	60	63	32	69	85	1,772

Observations taken at 8:00 a. m. except at 7:30 a. m. at Lakeside. For Lakeside and St. Louis (Washington University) descriptions see April 1932 and August 1938 reports, respectively. * Included in next measurement.

Daily Temperatures for January 1946

Stations		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Northern Division																																	
Brunswick /	Maximum	28	42	44	54	55	47	37	34	38	33	37	29	44	45	32	40	46	53	38	32	26	45	40	41	50	14	41	47	44	45	34	39.8
	Minimum	1	0	20	24	38	41	31	29	30	29	29	26	19	19	16	16	17	24	30	30	14	11	13	21	21	5	5	14	23	28	14	20.6
Chillicothe /	Maximum	27	42	46	51	52	45	35	33	34	32	34	33	41	45	29	38	48	56	34	29	36	44	39	40	48	*18*	40	46	45	43	33	39.2
	Minimum	1	11	21	21	39	33	29	27	27	27	26	20	17	30	13	13	14	22	33	28	13	10	13	18	19	2	3	*17*	27	34	10	19.9
Columbia	Maximum	28	43	43	55	57	51	38	36	41	31	38	35	47	50	31	41	48	56	40	34	26	41	43	36	52	23	41	47	43	49	34	41.2
	Minimum	6	22	32	36	51	38	30	30	31	29	30	22	20	27	20	18	21	34	34	21	15	12	30	20	23	7	7	28	30	18	15	24.4
Fayette	Maximum	28	42	37	53	55	52	45	34	42	34	39	34	46	46	36	40	50	55	44	33	30	44	41	38	50	36	41	49	40	45	34	41.7
	Minimum	2	17	25	31	50	39	30	28	31	27	29	19	16	26	17	14	19	29	31	27	12	6	32	18	25	5	4	21	25	24	13	22.3
Grant City	Maximum	22	41	39	46	47	45	44	30	30	30	32	32	38	43	32	37	..	57	45	31	24	41	40	31	42	24	43	44	45	41	32	[a]37.6
	Minimum	−4	14	12	30	40	29	27	22	27	22	27	12	7	30	8	11	..	31	30	21	10	8	30	15	20	−2	5	24	25	11	4	[a]18.2
Hannibal	Maximum	25	38	37	52	55	50	38	35	37	41	35	35	37	46	32	37	47	55	42	31	22	35	40	34	50	20	38	46	41	46	30	38.9
	Minimum	2	18	29	30	46	36	28	27	29	27	27	18	12	25	17	17	23	33	29	19	9	6	30	16	17	1	3	38	25	15	12	21.4
Kansas City Airport	Maximum	33	44	52	56	53	51	38	32	35	33	35	31	46	45	28	40	50	53	41	33	28	48	41	40	47	20	42	48	45	46	40	41.1
	Minimum	7	28	25	40	44	33	30	30	30	28	29	21	26	27	15	17	23	36	33	24	18	18	31	25	19	7	14	29	36	17	14	25.0
Kirksville	Maximum	25	40	45	49	52	46	41	32	32	38	34	34	36	43	34	38	46	56	45	32	25	37	38	36	45	30	39	43	40	45	27	38.8
	Minimum	1	15	22	30	44	34	29	21	21	30	27	14	10	31	14	15	24	32	29	24	9	5	32	14	24	−1	2	22	23	17	8	20.1
Lawson	Maximum	30	41	48	51	51	50	44	31	33	31	36	34	43	43	38	40	50	54	43	33	25	45	45	46	46	32	42	48	40	44	35	41.0
	Minimum	−1	18	23	32	45	32	29	26	29	25	28	18	18	30	14	12	22	32	32	23	14	10	22	20	29	4	7	27	28	18	10	21.8
Louisiana	Maximum	27	39	40	54	59	55	48	36	40	42	37	37	39	49	42	40	42	55	42	35	29	30	41	41	53	39	39	41	39	54	31	41.8
	Minimum	4	13	30	29	50	37	30	29	35	30	28	25	15	29	22	14	20	28	29	27	12	5	27	19	24	5	2	30	20	30	15	23.0
Macon /	Maximum	27	40	41	53	54	45	35	34	40	39	35	28	42	44	31	39	47	53	34	29	23	39	40	39	48	14	40	46	42	45	31	38.6
	Minimum	2	3	19	27	39	40	29	27	28	27	26	22	13	14	15	13	14	22	32	28	10	5	8	15	15	13	4	10	24	24	10	18.6
Maryville	Maximum	24	42	40	45	47	46	39	30	29	30	34	32	39	43	29	36	45	56	42	31	25	43	38	33	41	23	44	43	41	39	34	37.5
	Minimum	−7	17	14	32	38	28	24	22	26	24	28	12	10	28	8	10	18	29	31	24	10	7	32	17	23	0	5	21	27	10	5	18.5
Mexico /	Maximum	24	39	42	54	57	50	33	34	39	37	38	30	45	37	31	40	47	54	36	35	26	36	41	37	51	20	40	*45*	42	48	33	39.4
	Minimum	3	11	21	32	41	44	29	28	28	28	29	28	17	18	20	14	16	23	30	29	12	8	9	18	18	6	6	19	28	31	13	21.2
Moberly /	Maximum	27	40	44	54	55	46	34	36	39	39	37	32	43	44	30	38	46	54	36	30	24	39	40	43	49	24	40	45	43	44	34	39.6
	Minimum	14	15	25	29	43	40	29	28	29	28	28	23	15	31	16	13	21	26	30	29	10	8	15	17	18	4	4	23	23	35	12	22.0
Oregon	Maximum	29	41	46	51	54	49	38	29	32	31	36	37	39	*43*	34	32	47	53	43	32	28	46	43	38	43	22	44	47	42	43	39	39.7
	Minimum	−1	23	22	35	41	28	25	23	25	25	14	15	15	28	9	13	20	34	21	25	13	*11*	32	19	20	1	8	25	*28*	14	8	20.0
St. Charles /	Maximum	30	42	53	58	60	62	33	43	40	37	35	35	40	50	31	37	46	58	36	32	25	33	42	40	54	25	40	44	47	60	41	42.2
	Minimum	8	8	21	33	43	47	32	30	31	31	29	32	17	21	26	19	20	26	32	31	12	4	14	22	23	10	13	24	26	34	17	23.7
St. Joseph	Maximum	29	43	48	53	49	48	36	31	31	31	34	27	42	45	27	38	46	53	35	31	23	47	41	37	44	14	43	46	41	43	38	38.5
	Minimum	3	24	22	34	37	30	27	26	28	25	27	17	18	19	12	18	23	34	31	20	15	15	29	21	12	4	13	29	32	14	10	21.6
Trenton	Maximum	25	41	40	47	45	51	40	39	34	34	33	30	36	46	38	40	48	58	51	32	31	41	37	32	46	30	42	46	44	41	34	39.7
	Minimum	0	16	35	34	36	34	30	27	30	26	29	17	15	32	13	18	22	32	32	27	12	8	28	17	27	0	5	27	24	18	*8*	21.9
Unionville /	Maximum	25	40	44	52	52	47	35	33	35	33	33	28	36	45	30	41	50	59	32	28	21	38	36	36	45	15	40	46	41	40	29	37.6
	Minimum	−2	−2	18	16	35	35	28	24	24	24	24	14	9	10	10	10	10	20	28	23	5	0	2	11	11	−4	−4	10	25	28	5	14.4
Warrenton	Maximum	30	41	41	59	59	58	48	35	39	40	35	36	43	50	42	38	47	56	49	35	29	34	41	40	54	40	39	47	41	56	33	43.1
	Minimum	1	15	33	29	51	41	29	28	33	29	27	26	14	30	24	15	19	29	29	27	10	−3	27	19	24	8	3	27	25	33	14	23.1
Keokuk, Iowa	Maximum	23	41	39	49	56	48	33	32	35	42	35	32	35	45	30	39	46	56	36	30	16	38	42	30	46	8	40	43	42	48	28	37.5
	Minimum	0	19	27	34	43	31	29	28	28	27	30	16	11	22	19	18	25	34	29	14	7	6	26	14	7	−1	5	28	28	12	11	20.2
Southwestern Division																																	
Clinton	Maximum	30	50	39	57	55	50	37	34	42	32	40	35	46	44	30	42	48	52	47	37	31	48	39	40	51	25	41	49	45	45	37	41.9
	Minimum	9	21	29	38	50	37	30	30	32	29	31	21	21	30	19	17	22	31	35	24	16	14	31	26	22	10	11	25	28	19	15	24.9
Eldon	Maximum	31	44	51	59	57	53	50	34	43	41	38	38	46	47	43	42	49	57	50	42	28	44	43	38	54	46	40	48	41	51	36	44.6
	Minimum	7	19	32	36	50	44	30	29	32	29	28	26	19	30	22	14	24	31	36	27	14	10	30	22	28	12	8	27	27	33	15	25.5
Harrisonville /	Maximum	34	47	50	55	53	53	32	33	40	34	34	35	49	44	30	33	51	56	45	32	34	44	43	41	50	30	42	52	45	41	40	42.0
	Minimum	6	11	23	27	48	36	22	28	28	21	29	23	13	21	13	14	17	23	31	29	13	13	24	23	23	10	8	14	26	37	11	21.5
Jefferson City	Maximum	29	44	48	61	57	53	45	35	41	39	39	48	47	50	40	42	50	58	48	38	26	44	44	38	55	39	42	50	42	51	42	44.7
	Minimum	0	15	31	33	50	40	30	28	32	28	30	20	17	30	21	14	16	25	31	26	14	15	31	21	28	11	4	20	22	26	15	23.4
Joplin	Maximum	38	49	58	59	58	53	44	36	41	40	41	38	42	41	37	42	48	53	53	46	33	46	42	43	57	32	38	49	46	47	41	44.9
	Minimum	17	28	31	52	53	44	33	32	34	31	36	26	23	32	23	19	25	35	45	26	22	24	36	32	32	14	13	28	34	25	19	29.8
Lamar /	Maximum	40	50	55	58	55	51	37	35	43	39	43	37	45	43	28	45	51	55	52	35	36	48	43	46	58	26	41	53	47	45	44	44.6
	Minimum	12	14	25	29	51	42	30	29	31	30	30	27	20	21	23	16	15	20	29	32	20	19	20	28	27	13	10	12	23	36	15	24.2
Lebanon	Maximum	32	43	56	57	55	54	51	33	39	46	40	37	44	47	41	45	49	56	52	48	30	43	42	40	56	49	40	50	45	50	38	45.4
	Minimum	4	20	34	35	50	42	29	29	32	28	33	26	19	29	22	14	20	30	35	29	14	11	29	24	28	12	6	26	22	35	14	25.2
Lexington /	Maximum	28	33	44	56	54	52	40	36	39	34	38	36	48	48	32	44	52	57	44	30	30	46	42	45	52	25	43	52	47	28	39	41.7
	Minimum	25	6	9	29	38	36	29	29	30	27	28	23	20	34	18	15	24	30	34	28	15	12	24	20	26	6	8	24	27	25	12	22.9
Marshall	Maximum	27	48	47	59	59	51	50	40	42	42	41	36	47	51	46	44	54	57	53	47	28	50	50	45	54	52	41	51	51	47	37	46.7
	Minimum	2	17	22	33	50	39	30	29	29	28	27	24	20	31	16	16	25	33	34	28	14	12	32	20	29	5	9	21	28	24	13	23.9
Mountain Grove	Maximum	33	41	45	54	55	54	52	34	37	50	44	38	44	47	42	44	48	60	56	49	33	40	39	39	61	51	37	50	46	54	42	45.8
	Minimum	9	21	30	36	48	43	30	29	32	32	33	27	18	25	24	15	22	30	38	31	14	14	25	25	29	15	6	21	27	33	15	25.7
Neosho	Maximum	42	50	56	60	59	55	50	40	43	45	44	43	45	46	42	46	52	53	55	48	37	48	44	44	59	55	44	50	47	47	43	48.1
	Minimum	12	21	29	39	52	50	32	32	33	28	37	28	15	23	24	12	17	25	42	31	20	16	34	31	29	17	7	21	24	39	17	27.0
Nevada	Maximum	38	47	51	58	56	54	50	37	42	39	42	40	46	43	38	44	51	55	52	49	33	47	44	44	55	43	40	53	43	47	44	46.0
	Minimum	12	25	28	38	51	38	30	31	32	30	31	26	19	29	20	16	19	29	42	29	21	18	34	29	32	13	9	23	30	30	14	26.7
Sedalia	Maximum	34	47	45	55	56	52	44	34	41	38	38	37	45	44	38	41	48	51	47	41	29	47	43	38	50	39	40	47	44	46	36	43.1
	Minimum	4	22	29	35	50	41	29	29	32	28	29	24	20	28	18	16	22	31	35	27	15	12	32	22	30	7	9	25	29	27	12	24.8
Springfield . 4 mi. NW	Maximum	36	42	50	55	56	53	37	35	39	43	40	36	43	46	34	42	47	53	49	44	28	44	41	39	56	30	39	48	40	47	39	42.9
	Minimum	13	26	33	44	48	42	31	31	32	29	32	24	20	25	20	16	19	29	37	24	16	16	29	27	30	11	9	24	30	23	16	26.0
Warrensburg	Maximum	32	46	45	57	56	50	47	36	41	37	37	38	47	46	42	39	48	52	48	40	28	45	44	39	50	38	39	47	44	46	37	43.3
	Minimum	8	22	26	33	33	39	29	29	31	28	30	24	22	30	16	15	23	32	35	28	16	14	32	23	32	8	10	19	31	25	13	24.4
Southeastern Division																																	
Arcadia /	Maximum	35	40	45	56	55	60	42	52	40	52	38	39	47	50	30	45	50	65	55	40	29	40	39	41	58	25	38	54	41	60	40	45.2
	Minimum	10	9	20	32	43	50	40	30	32	32	29	32	18	12	28	19	13	13	33	34	16	8	7	26	26	22	4	4	19	29	19	22.9
Birch Tree . . ½ mile E	Maximum	35	40	41	56	55	57	53	36	47	55	42	39	46	49	43	44	50	60	52	47	33	40	39	52	60	50	38	52	36	60	40	46.7
	Minimum	5	19	32	40	51	46	31	31	36	33	36	22	15	17	26	18	12	20	34	31	16	8	26	28	21	15	1	14	21	33	18	24.4
Caruthersville	Maximum	35	37	48	64	64	71	63	56	63	50	44	45	44	47	41	39	51	58	50	47	42	38	42	47	57	51	35	50	40	60	53	49.4
	Minimum	20	24	35	44	52	52	43	31	43	40	38	36	27	26	35	30	22	28	39	39	27	21	27	33	29	22	14	20	28	38	28	32.0
Crystal City	Maximum	31	43	54	57	60	64	59	36	51	44	37	38	42	54	47	43	49	63	53	36	31	36	43	40	59	53	41	50	44	63	48	47.4
	Minimum	11	18	34	35	52	47	33	31	36	32	30	32	18	28	28	19	14	25	30	31	12	23	28	25	23	14	5	24	20	37	18	26.2
Doniphan	Maximum	37	35	45	60	59	61	56	48	57	54	44	44	48	49	40	44	57	63	54	49	38	40	44	46	61	60	37	58	42	66	57	50.1
	Minimum	11	15	33	44	51	43	35	34	41	34	31	28	14	16	31	25	11	19	39	37	22	9	23	26	21	23	3	11	18	37	23	26.1
Farmington	Maximum	31	41	47	55	55	59	56	35	52	44	40	37	45	52	45	40	61	58	57	42	31	35	38	37	58	54	37	49	45	60	52	46.7
	Minimum	9	18	31	35	51	49	33	29	34	32	31	30	18	27	26	12	27	15	35	30	12	5	24	26	25	14	4	22	24	34	17	25.1
Jackson	Maximum	33	37	43	56	58	59	57	39	59	48	47	38	39	44	42	39	47	56	52	44	34	34	39	48	56	54	32	49	48	59	56	46.6
	Minimum	12	16	31	40	49	48	34	31	37	34	31	33	19	23	28	22	14	22	32	32	17	11	24	31	22	16	4	18	18	34	22	26.0
Poplar Bluff	Maximum	36	37	45	*58*	60	62	53	59	46	53	44	42	45	48	39	43	54	60	48	44	38	40	43	42	*61*	*57*	*31*	*55*	*42*	*63*	*60*	48.6
	Minimum	13	12	34	41	55	42	34	34	*42*	34	23	25	17	20	31	25	15	22	38	*36*	22	12	25	32	28	*24*	7	20	*20*	*37*	23	27.2
Rolla /	Maximum	30	43	51	58	56	56	33	38	38	42	37	36	45	51	31	39	48	58	47	33	27	41	39	41	57	20	40	48	46	56	39	42.7
	Minimum	6	14	30	35	50	45	32	29	30	30	31	28	17	28	24	16	20	25	37	32	12	6	15	23	25	12	5	20	27	34	14	24.3
St. Louis	Maximum	25	40	50	56	59	59	45	45	51	38	36	37	39	51	35	38	45	58	48	33	25	30	41	38	54	32	38	45	37	60	33	42.6
	Minimum	11	18	36	38	54	*45*	*30*	30	36	30	31	26	22	32	24	20	26	36	33	25	13	13	25	22	30	10	10	27	30	27	18	26.7
Salem	Maximum	32	41	44	55	55	57	52	34	39	48	40	38	47	50	42	42	47	62	48	43	32	41	39	40	58	51	41	50	38	58	38	45.2
	Minimum	0	17	32	35	50	45	31	29	33	32	31	29	16	26	25	16	15	25	35	30	12	7	25	25	26	14	5	21	22	34	16	24.5
Sikeston /	Maximum	33	39	49	60	62	66	51	61	50	52	41	42	42	48	35	40	51	58	50	40	32	37	42	45	57	29	34	51	47	59	44	46.7
	Minimum	17	18	27	38	48	51	44	33	35	40	35	38	21	23	27	25	20	22	30	36	22	16	17	28	28	28	9	9	22	33	26	27.9
Union . . . . . . 1½ mi. SE	Maximum	33	42	46	60	60	59	53	36	40	41	46	36	42	48	42	42	45	57	49	37	30	37	42	40	54	44	39	46	39	58	37	44.5
	Minimum	5	13	34	28	51	45	31	30	35	29	26	27	17	27	27	17	14	24	29	29	11	0	25	23	24	12	5	27	20	36	17	23.8
West Plains	Maximum	38	37	42	55	55	56	48	42	45	55	45	40	46	48	38	48	52	61	54	43	34	42	39	44	61	37	39	54	37	60	42	46.4
	Minimum	9	21	33	42	43	43	32	32	35	30	36	24	15	18	24	18	14	23	35	27	17	11	26	23	26	10	4	17	20	27	17	24.3
Cairo, Ill.	Maximum	29	39	47	59	62	63	52	63	61	47	42	42	37	45	39	38	45	52	46	43	32	33	41	41	54	40	31	45	41	56	42	45.4
	Minimum	22	23	38	47	55	51	36	35	43	40	38	32	26	30	31	27	25	32	40	32	22	20	28	31	32	18	13	24	27	39	28	31.8

/ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs. [a], [b], [c], etc., number of days missing, for example, [b] indicates two days missing. Italics data interpolated. § Partly interpolated.


MISSOURI
SCALE OF MILES
10 5 0 10 20 30 40 50
LEGEND
● Section Center.
● Weather Bureau Office.
○ Substation (Temperature and Precipitation).
□ Substation (Precipitation).
△ Substation (Evaporation, Temperature, and Precipitation.)
NOTE.—Dash (—) above station symbol indicates availability of hourly temperature data; below symbol, autographic precipitation records.
C.R.J. 5-11-44

WBO. St. Louis. 3-18-46—1000.

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CLIMATOLOGICAL DATA

19

MISSOURI SECTION
H. F. WAHLGREN
ST. LOUIS, MO.

VOL. L FEBRUARY 1946 No. 2

PRICE: 5 CENTS A COPY; 25 CENTS A YEAR

GENERAL SUMMARY

The month was unusually mild for the time of year and was quite favorable for seasonal outdoor work over much of the State, particularly the latter half, except too wet for much field work in the Southeastern Division.

Only three Februaries in the past 59 years have averaged warmer than the current month, namely in 1927, 1930, and 1938. Monthly averages this month ranged from approximately 5° to 8° above normal for the three divisions of the State and each reporting station had above-normal monthly average. The 25th was the warmest day of the month, as a rule, when maximum temperatures in the high 60's to the middle 70's were registered. The 15th was generally the coldest day, when minimum readings ranged from near zero, at a few stations in the Northern Division, to the lower 20's at some southern stations. There were no outstanding or prolonged cold periods, daily temperatures averaging well above normal, as a rule, except for brief periods on the 9th and 10th, 14th and 15th, and again on the 27th, when they were below normal. No unusual extremes of temperature were reported.

Precipitation was very irregularly distributed during the month, being very light in the extreme northern counties, and rather heavy in most of the Southeastern Division. Monthly totals ranged from 0.10 inch at the station receiving the least amount of precipition to 7.33 inches at the station having the greatest monthly amount. The bulk of the month's moisture was from rain, snowfall being rather light and infrequent, except moderate to heavy locally in south-central portions on the 9-10th, and again on the 12-13th in central and east-central portions of the State. The snowfall quickly melted and the ground was not covered for more than four or five days at any station, although drifts remained unmelted for a longer period. The average precipitation for the Northern Division was only 0.97 inch, or 0.62 inch less than normal; for the Southwestern Division it was 2.98 inches, −0.97 inch, and for the Southeastern Division it was 4.48 inches, +1.72 inches.

Following heavy precipitation on the 12-13th, rather marked rises occurred in most rivers of the southern half of the State, resulting in overflows locally in the Black, Bourbeuse, Current, Gasconade, Meramec, Mississippi, and St. Francis rivers.

There were no damaging storms of any kind reported during the month. However, an unusual phenomenon, for so early in the year, occurred on the 5th when a rather general duststorm, borne by high southwesterly winds, passed over the State reducing visibility in some places to less than one mile and locally at Browning to less than one-quarter mile.

The prevailing mild, open weather during February was very favorable for grasses and wheat and these became green and made good growth, particularly the latter part of the month. However, fruit buds were prematurely advanced by the unseasonable warmth which was an unfavorable feature of the month's weather. Some corn was still being husked out of the shock the latter part of the month. Some oats had been sown, locally. Considerable plowing and disking of fields, where they

(Continued on page 11)

PRESSURE, WIND, HUMIDITY, AND SUNSHINE

Stations	Sea-level pressure, extremes—inches: Highest	Date	Lowest	Date	Wind: Average hourly velocity	Maximum velocity	Direction	Date	Relative humidity: 12:30 a. m.	6:30 a. m.	12:30 p. m.	6:30 p. m.	Percentage of sunshine	Degree days
Columbia..	30.44*	20	29.32*	26	8.8	26	sw.	6	64*	69*	53*	54*	66	693
K. C. Airp't	30.43	20	29.31	25	12 5	39	sw.	5	62	72	48	48	75	651
St. Joseph .	30.43*	20	29.26*	25	10 5	39	nw.	14	68*	76*	50*	53*	71	695
St. Louis	30.46*	15	29.36*	26	14.1	33	w.	6	66*	69	52	59*	58	682
Springfield	30.43	20	29.39	26	15.0	39	sw.	25	72	78	57	62	83	642
Cairo, Ill..	30.51	15	29.32	13	10.8	43	sw.	13	..	79	34	..	57	577
....	.....	..	.....	..	....	..	......	..	..	..	..	..	..	....

* Data for Airport station.

COMPARATIVE DATA FOR FEBRUARY

Year	Temperature: Average for State	Highest	Lowest	Precipitation: Average for State	Average, Northern Division	Average, Southwestern Division	Average, Southeastern Division	Snowfall, Average for State	Number of days: Precip. .01 inch or more	Clear	Partly cloudy	Cloudy
1888	33.0	73	−17	2.22	2.04	2.22	2.39	....	7	..	..	..
1889	29.3	73	− 9	2.74	1.80	3.12	3.30	....	7	..	..	..
1890	35.5	81	− 8	2.71	1.12	2.04	4.97	....	7	..	..	..
1891	32.7	78	−13	2.45	2.05	2.33	2.96	2.4	6	..	..	..
1892	37.7	71	2	4.31	3.47	5.40	4.06	....	9	7	6	16
1893	27.9	65	−20	2.17	2.02	1.49	2.99	4.6	6	10	7	11
1894	30.8	72	−12	2.70	2.15	2.01	3.93	11.2	6	10	8	10
1895	23.6	77	−26	0.57	0.48	0.55	0.67	3.3	5	10	10	8
1896	35.6	81	−10	1.67	1.50	1.22	2.30	4.1	5	12	8	9
1897	34.8	74	−15	2.51	1.47	2.79	3.27	8.2	7	7	7	14
1898	35.4	78	− 9	1.61	1.54	1.47	1.81	0.8	5	13	6	9
1899	20.4	72	−32	2.30	1.75	2.06	3.10	5.3	6	12	8	8
1900	26.2	70	−16	4.00	3.87	3.35	4.77	16.6	10	10	6	12
1901	28.1	76	−19	1.74	1.41	1.51	2.31	7.6	6	13	7	8
1902	24.0	72	−17	1.62	0.89	2.10	1.88	5.5	5	11	8	9
1903	29.8	74	−25	3.25	1.98	3.34	4.42	5.8	7	11	6	11
1904	30.0	82	−18	1.02	0.64	0.63	1.78	1.5	5	11	8	10
1905	21.5	69	−40	1.68	1.72	1.69	1.63	13.2	8	11	6	11
1906	33.7	73	−13	2.42	2.66	2.17	2.43	4.8	7	15	6	7
1907	34.8	77	−15	1.28	0.79	0.92	2.12	4.5	6	12	5	11
1908	35.6	78	− 7	4.32	2.83	4.20	5.94	4.1	9	13	6	10
1909	38.8	71	− 4	3.24	2.37	2.52	4.82	3.1	9	13	5	10
1910	28.3	72	−24	2.17	0.92	1.89	3.71	10.2	6	13	5	10
1911	38.1	87	0	3.78	4.09	3.99	3.27	6.7	8	12	5	11
1912	28.3	72	−12	2.51	1.99	2.56	2.98	14.5	6	10	7	12
1913	29.8	78	− 9	2.15	2.08	2.62	1.75	8.5	7	12	5	11
1914	28.3	75	−11	2.80	2.03	2.55	3.83	14.0	7	12	6	10
1915	39.4	72	7	3.07	2.48	3.53	3.21	4.1	8	9	5	14
1916	31.4	78	−12	0.98	0.79	0.73	1.42	5.0	5	13	6	10
1917	30.5	83	−22	0.42	0.16	0.24	0.85	1.4	2	14	7	7
1918	34.9	85	−25	1.06	1.25	0.80	1.12	0.6	4	15	6	7
1919	35.3	71	−10	1.96	1.98	2.08	1.82	6.4	7	13	4	11
1920	34.5	78	− 5	0.62	0.33	0.40	1.14	1.2	4	11	6	12
1921	40.1	86	5	1.03	0.55	0.74	1.79	1.8	4	14	6	8
1922	35.4	80	− 5	1.83	1.37	1.62	2.49	1.9	5	14	6	8
1923	30.2	75	− 9	1.58	0.52	1.26	2.97	1.4	5	13	5	10
1924	33.8	79	− 5	1.84	1.58	1.92	2.03	8.1	7	14	4	11
1925	38.7	78	1	1.88	1.85	1.42	2.37	1.7	6	12	6	10
1926	39.4	76	− 4	2.07	1.93	1.81	2.46	2.9	6	11	6	11
1927	41.3	78	1	1.07	1.07	0.90	1.25	2.3	5	10	8	10
1928	37.0	73	− 2	2.27	2.18	2.17	2.47	1.8	7	12	6	11
1929	25.0	64	−23	1.96	1.31	1.72	2.86	9.4	7	10	5	13
1930	44.5	89	− 5	1.75	0.95	1.49	2.80	1.3	4	13	8	7
1931	40.9	75	5	2.49	1.46	2.82	3.20	0.3	6	12	6	10
1932	42.4	83	− 3	1.47	1.00	0.99	2.43	2.0	6	12	7	10
1933	32.2	78	−22	1.45	0.74	1.26	2.35	4.2	5	14	7	7
1934	32.5	79	−26	1.34	1.00	1.32	1.70	7.0	5	15	6	7
1935	37.4	80	0	1.54	1.63	1.45	1.55	0.2	5	10	6	12
1936	23.2	78	−25	1.50	1.43	1.33	1.73	4.1	6	12	7	10
1937	32.4	74	−15	1.38	1.20	1.46	1.48	3.5	6	11	7	10
1938	41.4	80	− 5	3.20	1.47	3.60	4.54	5.0	7	8	6	14
1939	33.0	71	− 9	3.17	1.73	2.70	5.08	8.6	9	11	6	11
1940	33.5	78	−11	1.59	1.11	1.37	2.28	5.5	9	7	6	16
1941	32.7	66	0	0.58	0.50	0.62	0.63	2.2	5	10	7	11
1942	33.0	74	−10	3.00	3.43	2.35	3.23	6.6	10	8	7	13
1943	39.1	80	−10	0.94	0.81	0.95	1.07	0.9	4	17	7	4
1944	37.9	82	−21	3.10	1.72	3.56	4.01	7.5	9	10	8	11
1945	35.5	85	−13	4.05	1.41	4.16	6.57	5.1	9	7	6	15
1946	40.8	75	− 1	2.81	0.97	2.98	4.48	2.6	5	15	6	7
....	....	..	....	....	....	....	....	....	..	..	..	..
....	....	..	....	....	....	....	....	....	..	..	..	..
Period	**33.4**	**89**	**−40**	**2.12**	**1.59**	**2.01**	**2.76**	**5.0**	**6**	**12**	**6**	**10**

NAT. HIST.

Climatological Data for February 1946

Stations	Counties	Elevation, feet	Temperature, in degrees Fahr.							Precipitation, in inches						Number of days				Prevailing direction of wind	Observers
			Length of record, years	Mean	Departure from the normal	Highest	Date	Lowest	Date	Length of record, years	Total	Departure from the normal	Greatest in 24 hours [4]	Date	Total snowfall, unmelted	With precip., .01 inch or more	Clear	Partly cloudy	Cloudy		
Northern Division																					
Albany	Gentry	930	5	37.1	......	74	25	7	1	17	0.18	−1.44	0.11	23	T.	3	22[a]	0[a]	5[a]	s.	Curtis E. Grace
Bethany	Harrison	916	51	35.8	+ 8.3	73	25	8	15	53	0.18	−1.24	0.18	18-19	*T.*	1	17	4	7	sw.	B. A. McGregor
Brookfield	Linn	767	5	37.2[a]	......	70[c]	25	9	15	5	0.85	......	0.72	13	1.0	4	19	0	9	nw.	G. F. Breen
Brunswick	Chariton	652	65	37.4	+ 7.6	71	25	8	14	67	0.90	−0.91	0.40	18-19	6.5	4	19	1	8	nw.	O. K. Benecke
Canton, Lock & Dam 20	Lewis	488	8	35.4	......	68	25	− 1	15	16	0.52	−0.74	0.42	13	4.1§	5	13	7	8	nw.	Lockmaster
Chillicothe	Livingston	779	37	36.7	+ 4.4	75	4	9	15	40	0.76	−0.69	0 31	18-19	*3.4*	3	23	1	4	nw.	Wm. J. Olenhouse
Clifton Hill	Randolph	731	47	37.8	+ 7.6	68	5	6	15	37	1.00§	−0.74	0.60§	13	6.3§	3	19	4	5	sw.	Dr. A J. Bradsher
Columbia	Boone	740	56	40.2	+ 7.8	74	25	8	15	56	2.14	+0.10	1.16	12-13	5.8	6	16	6	6	s.	U. S. Weather Bureau
Conception	Nodaway	1,108	57	37.6	+ 9.4	73	25	7	15	62	0.11	−1.04	0.11	18-19	0.5	1	15	10	3	nw.	Fr. Adelhelm Hess
Edgerton	Platte	856	26	41.0	+ 6.7	73	25	13	15	43	0.41	−0 93	0.41	18-19	*T.*	2	23	3	2	s.	Paul C. Handley
Elsberry	Lincoln	449	15	37.0	+ 3.2	72	25	1	15	15	2.52	+0.86	1.02	12-13	7.2	4	16	9	3	w.	Soil Conservation Service
Fayette	Howard	760	66	39.5	+ 8.9	72	25	4	15	63	1.69	−0.01	0.98	12-13	5.0	4	19	4	5	nw.	Irvin E. Schnell
Fulton	Callaway	818	58	38.4	+ 5.3	72	25	7	15	54	2.20	+0.53	0.76	18-19	3.0	4	21	4	3	s.	Frank E. Hillgartner
Grant City	Worth	1,134	42	36.0	+ 7.4	73	25	6	15	54	0.15§	−0.96	0.11	18-19	1.5	2	14	10	4	n.	J. Homer Korn
Hannibal	Marion	759	54	35.7	+ 6.0	70	25	3	15	62	0.81	−1.05	0.50	13	3.0	5	10	11	7	nw.	Hannibal Water Dept.
Kansas City Airport	Jackson	741	57	41.8	+10.6	72	4	17	15	57	0.94	−0.55	0.53	18-19	2.7	5	14	8	6	sw	U. S. Weather Bureau
Kansas City Univ.	Jackson	908	8	43.6	......	73	4	18	15	8	0.83	......	0 31	13	1.0	4	16	8	4	sw.	University of Kansas City
Kidder	Caldwell	1,020	54	37.2	+ 8.8	71	25	8	15	58	0.39	−1.15	0.35	18-19	2.0	2	20	4	4	s.	Mrs. Geraldine Terry
Kirksville	Adair	969	57	35.4	+ 8.3	68	25	4	15	64	0.12	−1.41	0.12	12-13	1.1	1	14	6	8	nw.	Dr. Willis J Bray
Knoxville	Ray	960	1	38.4	......	71	25	10	15	2	0.56§	......	0.35	18-19	3.0	4	9	14	5	sw.	C. C. A. Station
Lawson	Ray	1,070	8	39.0	......	71	25	10	15	8	0.36	−1.03	0.22	12-13	3.4	2	19	5	4	s.	Elmer E. Lamb
Louisiana	Pike	469	52	38.3	+ 7.4	70	25	0	15	65	1.67	−0.41	0 95	12-13	*5.0*	6	16	7	5	nw	Stark Bro's Nurseries
Macon	Macon	875	47	34.8	+ 5.2	69	25	3	15	53	0.77	−0.93	0.46	13	7.0	3	12	7	9	nw.	John W. Atwell
Maryville	Nodaway	1,169	56	36.6	+10.8	72	25	8	15	52	0.17	−1.26	0.17	18	0.5	1	17	4	7	nw.	R. B. Montomery
Memphis	Scotland	787	7	32.8	......	72	6	1	15	16	0.45§	−0.52	*0.30*	13	3.6	4	14	5	9	nw.	John W. Alexander
Mexico	Audrain	800	57	36.4	+ 6.3	72	25	4	15	68	2.05§	+0.20	1.00	18-19	*3.2*	3	9	10	9	n.	Darrence W. Stuart
Moberly .....3½ mi. NE	Randolph	860	9	36.6	+ 3.7	70	25	1	15	9	0.98§	−0.54	0 44	18-19	4.5§	3	10	3	15	nw.	F. W. Bell
New Florence. 1 mi SE	Montgomery	885	3	37.5	......	71	25	5	15	4	2.47	......	1.40	12-13	2.9	7	11	5	12	s.	U. S. Weather Bureau
Oregon	Holt	1,048	90	39.7	+10.9	74	25	10	15	90	0.18	−1.19	0.18	19	*T.*	1	20	4	4	s.	James M. Curry
St. Charles	St. Charles	520	58	39.0	+ 5.7	71	25	10	15†	68	2.28	+0.29	0.89	14	2.0	5	11	8	9	nw.	Martin L. Comann
St. Joseph	Buchanan	957	36	40.2	+10.6	73	25	15	15	74	0.28	−1.39	0.08	5	T.	4	16	9	3	nw.	U. S Weather Bureau
Saverton, Lock No. 22.	Ralls	472	8	36 9	......	70	25	5	15	8	0.97	......	0.42	13	2.5	5	20	2	6	nw.	Lockmaster
Shelbina	Shelby	779	5	36.5[a]	......	71[a]	25	0[a]	15	53	0.92§	−0.92	0.59	12-13	5.8	4	11[a]	9[a]	7[a]	w.	Guyman Hatcher
Steffenville	Lewis	650	48	36.2	+ 6.5	69	25	0	15	53	0.49	−1.28	0.21	12-13†	3.0	5	14	7	7	nw.	Mrs. Fannie V. Gross
Tarkio	Atchison	916	43	36.0	+ 7.0	72	25	9	15	52	0.11	−1.17	0.11	18	T.	1	13	11	4	nw.	C. A. A. Station
Trenton	Grundy	822	50	38.4	+ 9.0	72	25	9	15	51	0.52	−1.06	0.36	18-19	2.0	3	11	13	4	s.	W. H. Estes
Unionville	Putnam	1,062	53	32.4	+ 5.7	70	25	3	15†	53	0.34	−1.43	0.21	12-13	1.2	3	11	13	4	w.	Mrs. Dora A. Wilson
Vandalia	Audrain	766	2	38.8	......	67	5	4	15	7	0.62	......	0.40	12-13	2.0	2	15	5	8	s.	Mrs. Naomi K. Stoutz
Warrenton	Warren	816	64	40 4	+ 9.5	72	25	1	15	56	2.51	+0.62	1.13	12-13	3.0	7	16	6	6	sw.	W. T. Zimmerman
Keokuk, Iowa	Lee, Ia.	574	74	34.8	+ 6.5	67	25	6	15	74	0.37	−1.18	0.31	13	3.1	3	8	14	6	nw.	U. S. Weather Bureau
Division means	**and extremes**	.....	..	**37.5**	**+ 7.4**	**75**	**4**	**− 1**	**15**	..	**0.97**	**−0.62**	**1.40**	**12-13**	**2.8**	**3**	**15**	**7**	**6**	**nw.**	
Southwestern Division																					
Anderson ...1½ mi SW	McDonald	1,000	42	40.4	+ 4.7	74	25	5	14	47	2.78	+1.00	1.88	12-13	2.0	4	18	2	8	sw.	Samuel G. Chamberlain
Appleton City	St. Clair	813	51	42.2	+ 8.3	71	25	7	14	54	1.67	0.00	0.85	18	4.0	5	19	1	8	sw.	Rolla Brown
Bolivar	Polk	1,071	43	43.4	+ 8.2	71	25	14	14	51	2.90	+0.80	1.82	13	1.9	5	16	7	5	sw.	Southwest Baptist College
Boonville	Cooper	650	8	37.4	......	73	25	5	15	69	1.86	+0.08	0.70	18-19	6.0	9	16	2	10	nw.	Boonville Water Dept.
Carthage	Jasper	962	12	45.1	......	74	25	11	14	22	2.85	......	1.60	12-13	*2.0*	4	15	9	4	s.	Carthage W. and E. Plant
Clinton	Henry	786	53	41.4	+ 7.8	73	25	14	14†	59	1.71	−0.24	0.81	18-19	5.0	5	15	11	2	s.	U. S. Weather Bureau
Eldon	Miller	934	51	42.6	+ 9.5	72	25	12	15	47	2.24	+0.42	1.30	13	2.4	5	13	7	8	s.	Ira M. Wilson
Fort Leonard Wood	Pulaski	1,107	5	42.6	......	74	25	13	15	5	2.26	......	1.75	12-13	*2.0*	2	16	3	9	s.	U. S. Army Medical Corps
Harrisonville	Cass	904	68	39.1	+ 8.4	71	4†	9	14	71	1.72	−0.01	0.91	18	5.7§	4	16	9	3	se.	Jeffrey B. Patterson
Jefferson City	Cole	557	56	40.9	+ 8.8	74	25	10	15	64	2.81	+1.05	1.90	12-13	*4.0*	4	11	9	8	......	K. W. O. S. Radio Farm
Joplin	Jasper	1,008	24	46.1	+10.3	73	25	17	14	41	3.11	+1.43	1.10	13	4 0	4	17	3	8	s.	Empire Dist. Electric Co.
Lakeside	Miller	595	15	40.6	+ 6.6	72	25	16	15	15	3.04	+1.22	1.51	12-13	3.0	6	14	6	8	......	W. S. Frame
Lamar	Barton	980	58	42.2	+ 6.9	73	25	12	14†	65	2.34	+0.57	1.02	18-19	*2 0*	5	19	2	7	sw.	Mrs. Marie Mann
Lebanon	Laclede	1,265	58	43.4	+ 9.0	72	25	14	14†	59	3.39	+1.20	2.42	12-13	1.5	5	12	7	9	sw.	Mrs. Rosa E. Montelius
Lexington	Lafayette	688	61	42.8	+11.8	72	5†	14	15	62	0 86	−0 98	0.46	18	*3.0*	2	23	2	3	sw.	Tilton Davis
Lockwood	Dade	1,078	40	45.0	+ 8.0	72	25	16	14	50	3.12	+1.39	1.52	12-13	4.0	5	18	7	3	sw.	Hubert A. Nieman
Marshall	Saline	779	59	41.7	+10.8	73	4†	10	15	56	0.97	−0.81	0.47	18-19	4.0§	4	19	6	3	ne.	Thomas A. Reid
Mountain Grove	Wright	1,463	45	43.4	+ 8.3	72	25	17	14†	49	5.04	+2.81	2.20	12-13	3.5	7	15	5	8	se.	Mo. Fruit Exp. Station
Mount Vernon	Lawrence	1,174	34	42.2	+ 7.7	71	22†	15	14†	46	4.45	+1.85	2 26	12-13	0.7§	6	9	12	7	sw.	James C. Williamson
Neosho	Newton	1,011	59	45.1	+ 7.5	73	25	16	14	63	3.41	+1.42	2.01	12-13	1.5	5	16	6	6	sw.	U. S. Fisheries Station
Nevada	Vernon	862	53	44.3	+10.4	72	22†	11	14	54	2.06	+0.31	1.00	18-19	4.6	5	16	5	7	sw.	Henry Kraft
Ozark Beach	Taney	700	6	42.8	......	74	25	16	1†	21	4.39	+2.59	2.55	12-13	3.5	5	10	6	12	sw.	Empire District Elec. Co.
Sedalia	Pettis	910	33	41.6	+11.2	71	25	8	15	35	1.63	−0.51	0 86	18-19	5.0	5	15	5	8	sw.	Dr. J. E. Cannaday
Seligman	Barry	1,512	45	45.0[a]	+ 7.5	71[a]	25	16	14	43	4.04	+2.20	2.52	12-13	1.0	6	17[b]	2[b]	7[b]	s.	Floyd E. Fawver
Seymour 3½ miles NE	Webster	1,612	40	39.8	+ 4.8	69	25	12	15	40	3.82	+1.64	2.62	12-13	2.0	4	19	0	9	w.	A. L. Hailey
Springfield... 4 mi. NW	Greene	1,301	58	42.2	+ 8.2	70	25	16	14	58	3.17	+0.82	2.19	12-13	1.5	6	12	4	12	s.	U. S. Weather Bureau
Sweet Springs	Saline	700	5	41.0[a]	......	73[a]	25	9[a]	15	5	1.54	......	0.75	18	7.0	5	13[a]	11[a]	3[a]	sw.	H F. Nelson
Warrensburg	Johnson	878	59	42.6	+10.1	71	25	12	14	66	1.24	−0.64	0.69	18-19	4.0	4	19	5	4	sw.	Central Teachers College
Warsaw	Benton	687	45	42.8	+ 7.2	73	25	8	15	51	2.11	−0.13	1.36	12-13	7.0	3	17	3	8	s.	Dora B. Johnson
Wasola	Ozark	1,294	5	45.2	......	73	25	20	14†	6	5.02	......	1 65	12-13	*3.8*	6	17	5	6	s.	A. W. Pinckney
Division means	**and extremes**	.....	..	**42.5**	**+ 8.4**	**74**	**25**	**5**	**14†**	..	**2.98**	**−0.97**	**3.35**	**12-13**	**3.4**	**5**	**16**	**5**	**7**	**sw.**	
Southeastern Division																					
Advance.... ¼ mile W	Stoddard	354	9	41.8	+ 3.0	68	22	18	15	9	5.08	+1.32	2.29	12-13	T.	9	13	5	10	s.	U. S. Weather Bureau
Arcadia	Iron	926	65	40.2	+ 6.1	69	22†	14	15†	68	3.37	+0.89	2.90	12-13	T.	3	18	2	8	e.	Arcadia College
Birch Tree... ½ mile E	Shannon	1,000	51	41.0[d]	+ 4.7	73[d]	25	15[d]	1†	52	3.98	+1.48	2.62	12-13	2.0	5	18[d]	2[d]	4[d]	nw.	R. C. Moger
Black.......9 miles NW	Iron	1,000	53	40.2	+ 5.9	71	25	11	1†	53	4.26	+1.98	3.30	13	0	4	14	5	9	sw.	Claude Volner
Campbell	Dunklin	314	20	44.6[b]	+ 2.5	68	22†	22[e]	15	20	5.84	+2.51	2.53	13	0.2	10	14	8	6	s.	Mrs. Ruth Christian
Cape Girardeau	Cape Girardeau	347	1	43.8	......	64	23†	17	15	46	4.94	+2.54	1.80	13	*0.2*	10	10	8	10	sw.	Homer R. Bolen
Caruthersville	Pemiscot	265	50	46.4	+ 5.9	68	22	23	11	54	5.99	+2.61	1.90	12-13	2.0	10	16	4	8	se.	Victor T. Malloure
Crystal City	Jefferson	420	12	43.2	+ 8.0	71	25	13	15	12	3.66	+1.79	2.30	12-13	T.	7	14	1	13	sw.	Richard K. Ragland
Doniphan	Ripley	314	42	44.2	+ 4 9	74	25	14	1†	42	6.17	+2.86	2.91	12-13	3.0	7	16	3	9	sw.	Boyce Lackey
Farmington	St. Francois	896	35	42.0	+ 5.1	69	25	13	15	49	4.61	+2.09	2.46	13	0.8	5	14	4	10	s.	F. M. Karsch
Greenville	Wayne	460	37	40.2[c]	+ 4.4	70[c]	22	9[c]	11	39	5.31	+2.59	2.30	13	*6.0*	7	13[c]	2[c]	10[c]	nw.	Beuford Shoemake
Jackson	Cape Girardeau	428	55	42.4[a]	+ 5.9	70	22	16[c]	15	56	5.00	+2.12	2.27	13	T.	7	14	3	11	s.	Danny Siebert
Koshkonong	Oregon	958	45	45.4	+ 6.3	72	25	20	15	46	6.94	+4.08	3.25	12-13	5.0	10	16	3	9	sw.	Mrs. Genevieve T. Smith
Licking...... 4 miles N	Texas	1,170	9	....	......	..	..	..	..	9	....	......	....	..	....	..	..	..	..	......	U. S. Forestry Service

Continued on next page

Climatological Data for February 1946—Continued from preceding page

Stations	Counties	Elevation, feet	Temperature, in degrees, Fahr.							Precipitation, in inches						Number of days				Prevailing direction of wind	Observers
			Length of record, years	Mean	Departure from the normal	Highest	Date	Lowest	Date	Length of record, years	Total	Departure from the normal	Greatest in 24 hours [4]	Date	Total snowfall, unmelted	With precip., .01 inch or more	Clear	Partly cloudy	Cloudy		
Southeastern Division—	*Concluded*																				
Marble Hill	Bollinger	532	51	42.4	+ 5.8	69	22	14	15	53	2.90§	−0.18	0.81	12-13	*T.*	8	14	4	10	se.	R. A. DeWitt
Poplar Bluff	Butler	339	41	43.3	+ 5.2	71	22	19	1†	42	5.23§	+2.34	2.36	12-13	*0.5*	10	16	6	6	s.	Joe Roehm
Rolla	Phelps	1,202	46	41.4	+ 5.1	71	25	13	15	62	2.93	+0.88	1.68	12-13	2.5	5	13	10	5	sw.	Rolla School of Mines
St. Louis:																					
City Office		465	109	40.6	+ 5.8	69	25	12	15	109	3.11	+0.55	2.07	12-13	1.6	6	12	7	9	s.	**Section Center**
St. Louis Airport	St. Louis	556	9	40.0	+ 6.0	71	25	10	15	15	2.03	−0.21	1.09	12-13	5.0	7	12	4	12	s.	U. S. Weather Bureau
St. Louis University	St. Louis City	578	34	40.8	+ 5.9	67	25	12	15	34	3.63	+1.32	2.19	13	0.9	7	12	5	11	se.	St. Louis University
Salem	Dent	1,206	42	42.0	+ 6.2	71	25	15	15	45	4.23	+1.95	3.40	12-13	0.5	5	15	4	9	s.	E. E. Martin
Sikeston	Scott	318	39	42.8	+ 5.6	70	22	19	15	49	6.07	+2.85	2.21	12-13	*T.*	11	15	6	7	se.	Mrs. Lucy W. Humphreys
Union 1½ mi. SE	Franklin	520	8	41.5	......	73	25	12	15	29	2.66	+0.46	1.07	13	*1.5*	6	17	3	8	nw.	Cornelius Sieges
Vichy 2 mi. NW	Marics	1,125	10	40.5	......	71	25	9	15	11	2.96	......	2.40	12-13	4.0	5	11	9	8	s.	Civil Aeronautics Adm.
Wappapello Dam	Butler	475	7	43.0	......	69	25	19	15	7	4.57	......	1.58	12-13	0.2	10	17	3	8	sw.	U. S. Engineer Office
Weingarten	St. Genevieve	833	5	42.5	......	68	25	11	15	6	4.77	......	3.50	13	0	5	14	6	8	s.	William J. Miller
West Plains	Howell	1,005	9	41.1	+ 2.5	72	25	16	2	9	4.36	+0.87	2.40	12-13	2.6	10	11	6	11	s.	U. S. Weather Bureau
Willow Springs 500 ft E	Howell	1,238	5	42.6	......	72	22†	17	1†	39	4.39	+1.83	1.55	13	1.5	6	18	3	7	s.	Allen Frazee
Cairo, Ill.	Alexander, Ill.	314	74	44.4	+ 5.9	66	22	20	15	75	5.73	+2.60	2.36	12-13	1.4	9	12	5	11	s.	U. S. Weather Bureau
Division means	**and extremes**	.....	..	**42.3**	**+ 5.3**	**74**	**25**	**9**	**11†**	..	**4.48**	**+1.72**	**3.50**	**13**	**1.5**	**7**	**14**	**5**	**9**	**s.**	
State means	**and extremes**	.....	..	**40.8**	**+ 7.4**	**75**	**4**	**− 1**	**15**	..	**2.81**	**+0.69**	**3.50**	**13**	**2.6**	**5**	**15**	**6**	**7**	**s.**	

The departures from normal temperature are computed from the averages of the entire period for stations having 10 or more years of record. Departures of precipitation for stations with 15 years or more of record are computed from a normal or "standard mean", adjusted to a uniform 35-year period; for stations of 10 to 14 years the means for the period of record are used. The normal may be found by adding the departures when minus (−) or subtracting when plus (+). Figures and letters following stations indicate distance in miles and direction of station from the city Post Office, unless otherwise indicated. T. Trace or 0.005 inch or less. [a], [b], [c], etc., number of days missing; for example, [b], indicates two days missing. Italics data interpolated. § Partly interpolated. † And other dates. ‡ Received too late to be included in means and summaries. [4] Best available used for stations not equipped with recorders. Post office address of: Altona is Adrian; Crane Mountain is Arcadia; East End is Goodland; Eastwood Lookout is Van Buren; Ellsinore Lookout is Mill Spring; Hailey is Cassville; High Lookout is Birch Tree; Macedonia Lookout is Doniphan; Perry is Center; Pilot Knob is Ironton; Wilderness Lookout is Lampe.

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were dried out sufficiently to permit this work, was accomplished during the latter half in preparation for early seeding of oats and planting of other crops. There was no freeze in the ground, generally, at the close of the month and the soil had already settled and was drying out nicely. Livestock continued in good condition and had range of pastures and stalk fields most of the month as a result of the lack of snow cover. Present conditions are indicative of an early spring this year.—M. R. W.

TEMPERATURE

The monthly mean for the State, 98 stations reporting, was 40.8°, or 7.4° warmer than the 59-year February average. The highest monthly mean was 46.4° at Caruthersville, and the lowest was 32.4° at Unionville. The highest reported was 75° at Chillicothe on the 4th, and the lowest was 1° below zero at Canton on the 15th.

PRECIPITATION

The average for the State, 213 stations reporting, was 2.81 inches, or 0.69 inch more than the 59-year February average. The greatest monthly amount was 7.33 inches at Ellsinore Lookout, and the least was 0.10 inch at Lucerne. The greatest amount reported in 24 hours was 3.50 inches at Weingarten, on the 13th. The average number of days with 0.01 inch, or more, was 5.

Snowfall averaged 2.6 inches, or 2.4 inches less than the 55-year February average. The greatest monthly snowfall was 10.0 inches at Van Buren; a number of stations reported no snowfall.

MISCELLANEOUS PHENOMENA

Auroras.—6th, 7th.

Duststorm.—5th.

Floods.—In Black River, at Poplar Bluff, 15th to 17th. In Bourbeuse River, at Union, on 16th. In Current River, at Doniphan, 14th to 15th. In Gasconade River, at Jerome, 15th to 16th. In Meramec River, 14th to 17th. In the Mississippi River, at Louisiana, on 1st and 16th; also, in the reach from Cairo to New Madrid, 14th to 27th. In St. Francis River, at Fisk, 15th to 26th.

Fogs.—Heavy, 4th, 8th, 9th, 13th, 22d, 23d.

Glaze.—12th, 13th, 23d.

Hail.—Light, on 5th at University of Kansas City.

Sleet.—9th, 10th, 12th, 13th, 14th, 18th, 19th, 23d, 26th.

Windstorms.—No damaging winds reported, but rather high winds occurred on several days.

ERRATA

August 1945, page 59: Mean temperature and departure at Poplar Bluff should be 78.2 and + 0.2, respectively. Date of maximum temperature at Sikeston should be 2d.
Page 61: Precipitation on 5th and 6th at Marshall should be blank and .22, respectively.
Page 63: Mean maximum temperature at Poplar Bluff should be 91.0.

Daily Precipitation for February 1946

Stations	Drainage basins	Day of month																															
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	..	..	..	Total
Northern Division																																	
Albany	Grand												T.		T.				T.	.05				.11			.02						0.18
Amity	do				T.	T.							T.	.02					.03	.21				T.			T.						0.26
Auxvasse	Missouri				T.	.02								.93	T.				.24	.55				.01									1.75
Bethany	Grand												T.	T.					T.	.18				T.			T.						0.18
Bowling Green[2]	Mississippi						.05							.33	.96					.35				*T.*	.01								1.70
Brookfield[2]	Grand													.12	.50					.20				.03									0.85
Browning, 3 mi. NE	do				T.	T.							T.	.34	.02				T.	.22		.02		.07			T.	T.					0.67
Brunswick[2]	do				T.	T.								.12	.35					.40				.03									0.90
Canton, Lock No. 20[2]	Mississippi				T.									T.	.42	.01				.07			.01	.01				T.					0.52
Centralia[2]	do						.02							.29	.54					.66													1.51
Chillicothe[2] (A)	Grand														.26				.18	.31				.01									0.76
Chillicothe[2] (B)	do				T.									T.	.11					.26				T.									0.37
Clifton Hill	Chariton													*.45*	.15					.40													§1.00
Columbia[1, 5]	Missouri			T.	T.	.07							.09	1.11	T.				.62	.22		T.		.03									2.14
Columbia[5] 9 mi. WNW	do				T.	.09								.83	.14				.06	.78				T.									1.90
Conception	do													T.					T.	.11							T.						0.11
Edgerton	do																		.05	.36													0.41
Edina[2]	Mississippi				T.										.60	T.				.06				T.									0.66
Elsberry S. C. S.[2]	do						.11							1.02	.97	T.				.42				T.	T.								2.52
Fayette	Missouri				T.	T.								.98					.15	.55				.01									1.69
Fulton[2]	do						.43							.45	.56					.76				T.	T.								2.20
Gallatin[2]	Grand				T.	T.								.03	.06					.92				.04				T.					1.05
Grant City	do				T.	T.							T.	T.					T.	.11							*.04*						§0.15
Hannibal[1] (A)	Mississippi				T.								.04	.50	T.				.04	.21				.02									0.81
Hannibal[2] (B)	do					T.								.14	.48					.50				.03	.02								1.17
Hermann[2]	Missouri						.20							.57	1.12					.51													2.40
Kahoka[2]	Mississippi				*T.*	T.	*T.*							*	*.37*					T.								T.					*0.37*
Kansas City Airport[1, 5]	Missouri				T.	.11							.02	.28					.50	.03				T.									0.94
Kansas City University	do					.13							T.	.31					.18	.21													0.83
Kidder[2]	Grand													T.	.04					.35													0.39
King City	Missouri													.03					.09	.03													0.15
Kirksville	Mississippi					T.								.12					T.			T.					*T.*						0.12
Knoxville[3]	Missouri				T.	.03							T.	*.18*					.33	.02				T.									§0.56
La Belle[2]	Mississippi													*T.*	*.20*					.10													§0.30
Lawson	Missouri					T.							T.	.22					T.	.14													0.36
Linneus	Grand					T.								.15						.15				.07			*T.*						0.37
Louisiana (A)	Mississippi					.18								.95	.08					.40		.02		.04									1.67
Louisiana[2] (B)	do						.18							.25	.80					.36				T.	.05								1.64
Lucerne[2]	Grand				*T.*										T.					.10				*T.*									0.10
Macon[2]	Chariton				T.	T.								T.	.46	T.				.26				.05									0.77
Madison[2]	Mississippi													*	.50					.35													0.85
Martinsburg[2]	Missouri					T.	.29							.27	.90	T.				.63				T.	T.								2.09
Maryville	do												T.	T.					T.	.17				T.			T.						0.17
Memphis[2]	Mississippi							T.						.04	*.30*	.07				T.			.04					T.					§0.45
Mexico[2]	do													.33	*.72*	*T.*				1.00													§2.05
Milan[2]	Grand													*.10*	.16					.25													§0.51
Moberly[2] 3½ mi. NE	Mississippi				T.	T.								.29	*.25*					.44													§0.98
Monroe City	do				.04								.09	.38						.36				.06									0.93
New Florence[3, 5] 1 mi SE	Missouri			T.	T.	.38							.28	1.14	.02				.31	.31				.03									2.47
Oregon	do												T.	*T.*						.18													0.18
Palmyra	Mississippi																																....
Paris[2]	do													.22	.57					.45				T.	T.								1.24
Perry 1 mile E	do						T.							.60						.50													1.10
Philadelphia	do												T	*.30*	*T.*					.20				T.									§0.50
St. Charles[2] (A)	Missouri					.01	.35							.63	.89					.40													2.28
St. Charles[2] (B)	do				T.	T.	.28			T.				.52	1.35	.01				.40	.06				.07								2.69
St. Joseph[1, 5]	do					.08							.03	T.					.15	.02							T.						0.28
Saverton, Lock No. 22[2]	Mississippi				T.	T.	T.							.12	.42	T.				.39				.03	.01								0.97
Shelbina	do				T.									.59	*.06*				T.	.24		T.		.03			*T.*						§0.92
Shelbyville[2]	do														.28					.27				.17									0.72
Steffenville	do					.01								.19	.02					.21		T.		.06				T.					0.49
Tarkio[3]	Missouri					T.							T.		T.				.11	T.			T.	T.			T.						0.11
Trenton[2]	Grand				T.										.11					.36				.05				T.					0.52
Troy[2]	Mississippi						.07							.54	1.02	T.				.35	.01				.01								2.00
Unionville[2]	Chariton													.05	.16					.13				T.									0.34
Vandalia	Mississippi			*T.*		T.							T.	.40	.22					T.													0.62
Warrenton	do				T.	.22	T.						.02	1.13	.72				.03	.36				.03									2.51
Keokuk, Iowa[1]	do			T.	T.	T.	T.							.31	T.				T.	.02		.04	T.	T.			T.	T.					0.37
Southwestern Division																																	
Altona[2]	Osage													T.	.37					.70													1.07
Anderson[2] 1½ mi. SW	Neosho										*T.*			1.88	.03				.38	.49							*T.*						2.78
Appleton City	Osage					.07								*	.75				.50	.35													1.67
Ava Ranger Station[2]	White				T.		.64				.51			2.87	.38					.54				.08									5.02
Bolivar	Osage				T.	.22							T.	1.82	.01				.50	.35													2.90
Boonville[2] (A)	Missouri				.13	.10	.06	.01						.16	.50					.70				.10	.10								1.86
Boonville[2] (B)	do													.08	.65					.88													1.61
Bradleyville[2]	White						.60				.22			2.20	.79					.60				.34									4.75
Buffalo[2]	Osage						.91							1.75	.23					.67													3.56
Butler[2]	do						.06							.20						.73													0.99
Caplinger Mills[2]	do				.03	T.	.08							.80	.68				.05	1.00													2.64
Carthage	Neosho					.20								1.60					.85	.20													2.85
Cassville[2]	White				.05		.32				.75			2.51	.13				.33	.50													4.59
Clinton[3]	Osage				.03	.10							T.	.77					.79	.02													1.71
Concordia	Missouri				T.	.01								*	.50				*	.74													1.25
Crocker	Osage					.32								2.18					.26	.33				*T.*									3.09
Eldon	Missouri				T.	.25								1.30	.22				.07	.40													2.24
Eldorado Springs	Osage					.28							T.	1.33					.73	.30													2.64
Elijah[2]	White				.11		.95				.18			1.30	1.22					.43				.15				.16					4.50
Forsyth[2]	do				T.		.87				.47			1.93	.62					.52				T.									4.41
Fort Leonard Wood[2]	Gasconade													1.75						.51													2.26
Galena[2]	White				.08		.05				.05			2.10	.13				.01	.78				.26									3.46
Granby[2]	do																																....
Hailey	do				.04	.49								3.35	.11				.74	T.													4.73
Harrisonville[2]	Osage				T.		.04							.28	.49					.91													1.72
Jefferson City (A)	Missouri				T.	.22							T.	1.90					.15					.54									2.81
Jefferson City[2] (B)	do				T.		.47							.50	1.17					.90	T				T.								3.04
Joplin[1]	Neosho				T.	.55							.38	1.10					1.08														3.11
Lakeside[2, 5]	Osage				T.	.02	.43							1.51	.48					.59	.01												3.04

Continued on next page

Daily Precipitation for February 1946—Continued from preceding page

Stations	Drainage basins	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	..	..	..	Total
Southwestern Division—	*Concluded*																																
Lamar[2]	Neosho						.22							.93	.17				.05	.97													2.34
Lebanon	Osage					.29								2.42	.09				.16	.43				T.			T						3.39
Lexington[2]	Missouri													*	.40					.46													0.86
Lockwood	Osage				T.	.22							T.	1.52	.62				.70	.06													3.12
Mansfield[2]	White																																....
Marshall	Missouri					T.								.40	.10				.12	.35													0.97
Marshfield[2]	White						.15							2.00	.26					.60	.02						T.						3.03
Mountain Grove[2]	Gasconade						.92				.14			2.20	1.04					.53				.17				.04					5.04
Mount Vernon[2]	Neosho				T.		1.32				.02			1.90	.36				.60	.25							T.						4.45
Neosho	do				.01	.36								2.01					.83	.20													3.41
Nevada	Osage					.10							T.	.90	.06				.72	.28													2.06
Osceola[2]	do				.01		.03							.32	.77					.94													2.07
Ozark[2]	White					T.	.24							2.15	.49					.62				.07									3.57
Ozark Beach[2]	do						.92				.38			2.20	.35					.54													4.39
Pierce City[2]	Neosho					T.	1.13							1.63	.30					.78													3.84
Pineview Lookout[2]	White				.02		.30				.15			*	2.17				.75														3.39
Pleasant Hill[2]	Osage				T.	T.	T.							.03	.41					.77													1.21
Roby	Gasconade					.28								2.43	T.				.18	.30				.03			T.						3.22
St. Thomas[2], 2¼ mi SW	Osage						*.44*							1.92	*.79*					.43													§3.58
Saunders Lookout[2]	White				.02		.49							2.18	.23					.56				.12				T.					3.60
Sedalia	Missouri					.12								.50	.15				.38	.48													1.63
Seligman[2]	Neosho				T.		.36				.02			2.52	.15				.34	.65													4.04
Seymour[2] 3½ mi. NE	White				T.	T.	.52							1.55	1.07					.68				T.				T.					3.82
Shell Knob[2] 3 mi. SE	do						.56				.05			2.35	.10				.09	.65							T.	T.					3.80
Siloam Sprgs Lookout[2]	do						.67				*.25*			1.20	1.37					.52	.05			.51									§4.57
Springfield[1],[5] 4 mi. NW	do			T.	T.	.21			T.	T.			.65	1.54					.68	.04			.05				T.						3.17
Stover[2]	Missouri						.06							*	1.08					.60													1.74
Sugar Camp Lookout[2]	White				.04		.72				*.05*			2.46	*.25*				.33	.62							*T.*						§4.47
Sweet Springs	Missouri					.02								.61	.16				.23	.52					T.								1.54
Tecumseh[2] ¼ mi. W	White																																....
Topaz[2]	do				T.		.59				.37			2.00	.66					.40				.31				T.					4.33
Vanzant[2] 3¾ mi. SE	do						.75				.27			1.68	1.24					.46				.09									4.49
Warrensburg	Missouri					T.								.50	.05				.28	.41													1.24
Warsaw[2] (A)	Osage				T.	T.								.58	.78					.75				T.									2.11
Warsaw[2] (B)	do				*T.*	*T.*								.56	*.76*					.72				*T.*									§2.04
Wasola[2]	White						.90				.38			1.65	1.11					.64				.34				T.					5.02
Waverly[2]	Missouri				T.	T.								.05	.09					.52													0.66
Wilderness Lookout[2]	White						.61				.12			2.07	.54					.68													4.02
Southeastern Division																																	
Advance[3] ½ mile W	St. Francis			T.	1.17	.95			.01	T.	T.		.32	1.97	T.				.07	.24				.19			.16						5.08
Alton(1) 10 miles SE	Black				.38	.71					.43			2.43						.52				.64			.20						5.31
Annapolis[2] 7 mi. W	do						.67				.40	T.		1.59	1.90					.19	T.				.13			.15					5.03
Arcadia[2]	St. Francis						.47				T.			1.05	1.85																		3.37
Belleview[2]	Meramec				T.	T.	.78							1.29	2.09					.11	.01							T.					4.28
Bernie[2]	St. Francis				.12	.71	1.91		.11	.08	.09			1.22	1.04					.31			.12	.18				.39					6.28
Birch Tree[2] ½ mile E	Black				T	T.	.69				.12			1.36	1.26					.55	T												3.98
Black 9 miles NW	do					.59								3.30						.16							.21						4.26
Bloomfield[2]	St. Francis				.27	.63	3.21			.01	T.			1.33	.88					.33					.24			.19					7.09
Bunker[2] 4 miles NW	Black						.36							1.63	1.58					.15								.09					3.81
Campbell	St. Francis				.31	.90	.75		.03	.05	04			2.53	T.					.27				.64			.32	T					5.84
Cape Girardeau (A)	Mississippi				.70	.17	.75		.02	.05	.02			1.80	.82					.35								.26					4.94
Cape Girardeau[2] (B)	do				.05	.72	.82			T.	T.	T.		1.78	1.24					.27	.10							.34					5.32
Caruthersville (A)	do				.70	.60	.89		.20	.21	.33			1.90						.20				.70			.26						5.99
Caruthersville[2] (B)	do				.15	.61	1.43		.10	.24	.30	.03		1.15	.82					1.02				.85				.32					7.02
Centerville(1)[2]	Black				*T.*	*T.*	.60				*.16*			1.85	1.25					.18					.10			.15					§4.29
Centerville(2)[2]	do						.64				.12			1.31	1.58					.17					.02			.07					3.91
Cook Station[2]	Meramec						.35							1.57	1.09					.15								.05					3.21
Crane Mountain[2]	St. Francis						.53				.18			1.73	1.43					.14								.14					4.15
Crystal City	Mississippi				.01	.57								2.30	.14					.35				.02			.27						3.66
Cuba	Meramec					.40							T.	1.84	.17				.10	.20													2.71
Deering[2]	St. Francis				.20	.31	1.25		.02	.14	T.	T.		1.21	.27					.36	T.			.70	T.			.18					4.64
De Soto[2]	Mississippi						.42							1.23	1.42					.30	.01				.06			.19					3.63
Dexter[2]	St. Francis				.13	.71	1.49			.14	T.	.03		1.11	1.13					.34	.06				.16			.42					5.72
Doniphan(1)	Black				.62	1.10				*T.*	.38			2.91					T.	.35				.53			.28						6.17
Doniphan(2)[2]	do				*	.68	1.10				.11			1.35	1.98					.51	.06			.45	.15			.40					6.79
East End[2]	Meramec						.45							1.52	1.87					.18								.16					4.18
Eastwood Lookout	Black				.57	.12	.55				*.60*			*	*				*	1.20				.21			.13						§3.38
Ellington[2]	do					T.	.59				.48	T.		1.43	1.52					.22	T.				.10			.25					4.59
Ellsinore Lookout[2]	do				.38	.59	1.50			.13	*.45*			2.05	1.22					.62				.07	.11			.21					§7.33
Farmington[2]	St. Francis						.74							1.05	2.46					.13								.23					4.61
Fisk[2]	do				T.	.96	1.26				.05			1.04	.83					.26	T			T.	.02			T.					4.42
Fredericktown[2]	do						.68				.73	T.		1.26	1.65					.14								.14					4.60
Gerald[2]	Meramec																																....
Greenville(1)	St. Francis				.74	1.04	T.		T.		*	.52		2.30						.34							.37						5.31
Greenville[2] (2)	do				.15	.56	1.04			T.	.39	.05		1.55	1.23					.26	.06				.30			.31					5.90
High Lookout[2]	Black				*.02*	*.01*	.53				*.15*			1.50	1.60					.41				.19				.15					§4.56
Jackson	Mississippi				.73	.62	.54				.09		T.	2.27	T.					.42							.33						5.00
Jefferson Barracks[2]	Mississippi				T.	T.	.53							.85	1.19	T.				.45	.02				T.			T.					3.04
Jerome[2]	Gasconade						.42							2.16	.74					.36													3.68
Koshkonong[2]	Black				.55	.30	.87				.40			1.90	1.35					.47	*T.*			.97	.06			.07					6.94
Leeper[2]	do																																....
Licking(2)[2]	Gasconade						.50							2.36	.76					.50				.10	.10								4.32
Macedonia Lookout[2]	Black				.09	.41	.51				.41	T.		1.60	.86					.37				.35	.20			.08					4.88
Marble Hill	Mississippi				.54	.39	.19		T.		.10			.81	.21					.34							*.32*	T.					§2.90
Meramec Park[2]	Meramec						.31							1.02	1.07					.28	T.				T.								2.68
Morehouse	Mississippi				.81	.78	1.18		.01	T.	T			2.15	.10					.22							.29	.03					5.57
Moselle[2]	Meramec						.37							.85	1.10					.29					.02								2.63
New Madrid[2]	Mississippi				.32	.35	1.75			.05	.06	.16		1.12	.63					.27				T.	T.			.42					5.13
Oates Tower	Black				T.	.26								.82	2.00					.15							.13						3.36
Owensville[2]	Gasconade						.28							1.70	.45					.46	.04				.02			.10					3.05
Pacific[2]	Meramec						.46							1.56	.52					*.45*													§2.99
Parma[2]	St. Francis				.15	.58	1.60			.03	T.	.04		1.32	1.05					.28				.09				.18					5.32
Perryville	Mississippi					.61					*.04*			2.35	.25					.21							.15						§3.61
Pilot Knob[2] 2 mi. NE	St. Francis			*T.*			*.50*							3.00	.12					.11					T.			.19					§3.92
Poplar Bluff[2] (A)	Black				*.28*	*.72*	*1.33*			*.02*	*.04*			1.48	.88					.38					.06			.04					§5.23
Poplar Bluff[2] (B)	do				.28	.72	1.33			.02	.04			1.48	.88					.36					.15			.23					5.49
Puxico[2]	St. Francis				.06	.37	1.03			.05	.01	T.		1.63	1.05					.26	.03			T.	.22			.15					4.86
Qulin[2]	do				.04	.52	1.92		T.	.06	.02	T.		1.20	.91					.36	T.			.29	.19			.27					5.78
Reynolds[2]	Black						.60							1.45	*1.40*					.26					T.								§3.71
Richwoods[2]	Meramec					T.	.95							2.35	.45					.25													4.00
Rolla[2]	do						.45							1.68	.50					.25	.05				T.								2.93
Round Spring[2]	Black						.55							1.05	2.10					.33													4.03

Continued on next page

Daily Precipitation for February 1946—Continued from preceding page

Stations	Drainage-basins	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	..	..	..	Total
Southeastern Division —	*Concluded*																																
St. Louis:																																	
City Office[1], [5]	Mississippi	....	....	T.	T.	.46	....	....	T.	....	....	....	.22	1.87	T.	....	....	....	.05	.49	....	....	....	.02	....	....	T.	....	....	....	....	....	3.11
Airport[3], [5]	Missouri	....	....	T.	T.	.30	....	....	T.	....	....	....	.18	1.06	.02	....	....	....	.03	.39	....	....	....	.05	....	....	T.	....	....	....	....	....	2.03
St. Louis Univ.[1], [5]	Mississippi	....	....	....	T.	.48	....	....	....	....	....	....	.29	2.19	.02	....	....	....	.08	.53	....	....	....	.04	....	....	T.	....	....	....	....	....	3.63
Washington Univ.[2]	...do	....	....	....	....	....	.44	....	....	....	....	....	....	.85	1.33	....	....	....	....	.48	.02	....	....	....	.01	....	....	....	....	....	....	....	3.13
Salem	Meramec	....	....	....	....	.60	....	....	....	....	T.	....	....	3.30	.10	....	....	....	T.	.18	....	....	....	....	....	....	.05	....	....	....	....	....	4.23
Sikeston[2]	Mississippi	....	....	....	.20	.80	1.90	....	.01	.08	*T.*	....	....	1.10	1.11	....	....	....	....	.38	.06	....	....	....	.09	....	....	.34	....	....	....	....	6.07
Steelville[2] ...2½ mi. NE	Meramec	....	....	....	....	....	.35	....	....	....	....	....	T.	1.25	1.03	....	....	....	....	.18	....	....	....	....	T.	....	....	.01	....	....	....	....	2.82
Summersville[2]	Black	....	....	....	T.	T.	.72	....	....	....	*.05*	....	....	1.51	1.71	....	....	....	....	.41	....	....	....	T.	....	....	....	....	....	....	....	....	§4.43
Union[2] ....1½ mi. SE	Meramec	....	....	....	.01	T.	.47	....	....	....	....	....	....	.70	1.07	....	....	....	....	.40	....	....	....	....	.01	....	....	....	....	....	....	....	2.66
Valley Park[2]	...do	....	....	....	....	T.	.40	....	....	....	....	....	....	.64	1.50	....	....	....	....	.56	....	....	....	....	....	....	....	....	....	....	....	....	3.10
Van Buren[2]	Black	....	....	.87	.41	....	.78	....	....	....	.48	....	....	1.40	1.57	....	....	....	....	.30	....	....	....	.10	.16	....	....	.12	....	....	....	....	6.19
Vichy[3] .....2 miles NW	Meramec	....	....	T.	T.	.24	....	....	T.	....	....	....	.78	1.68	T.	....	....	....	.20	.06	....	....	....	T	....	....	....	....	....	....	....	....	2.96
Wappapello Dam[2]	St. Francis	....	....	....	.15	.29	1.00	....	....	.03	.01	....	....	1.58	1.04	....	....	....	....	.25	T.	....	....	....	.09	....	....	.13	....	....	....	....	4.57
Webster Groves	Mississippi	....	....	....	*T.*	.40	....	....	....	....	....	....	....	1.92	.06	....	....	....	....	.47	....	....	....	T.	....	....	....	....	....	....	....	....	2.85
Weingarten	...do	....	....	....	....	.67	....	....	....	....	....	....	....	*	3.50	....	....	....	....	.15	....	....	....	....	....	....	.45	....	....	....	....	....	4.77
West Plains[3]	Black	....	....	T.	.10	.71	....	....	....	T.	.12	....	.49	1.92	T.	....	....	....	.33	.09	....	....	.46	.05	....	....	.09	....	....	....	....	....	4.36
Williamsville[2]	...do	....	....	....	.66	.50	.98	....	....	....	.18	....	....	2.02	1.08	....	....	....	....	.63	.03	....	....	....	....	....	....	.31	....	....	....	....	6.39
Willow Springs[2] 500 ft E	White	....	....	....	*T.*	....	.56	....	....	....	.09	....	....	1.47	1.55	....	....	....	....	.52	....	....	....	.20	....	....	....	....	....	....	....	....	4.39
Winona Ranger Sta.[2]	Black	....	....	....	.04	.02	.50	....	....	....	.20	....	....	1.60	1.55	....	....	....	....	.32	T.	....	....	.34	.11	....	....	.20	....	....	....	....	4.88
Zalma[2]	Mississippi	....	....	....	.35	.53	.85	....	....	.01	.01	T.	....	1.57	.85	....	....	....	....	.23	.03	....	....	....	.29	....	....	.09	....	....	....	....	4.81
Cairo, Ill.[1], [5]	...do	....	....	....	1.00	1.71	....	....	.06	T.	.13	....	.32	2.04	....	....	....	....	.04	.23	....	....	....	T.	....	....	.20	....	....	....	....	....	5.73
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....

Except as otherwise indicated, amounts are for 24 hours ending late in afternoon. [1] Midnight to midnight. [2] Measured in the morning; for the preceding 24 hours. [3] Data for 24 hours ending 12:30 A. M. (C. S. T.) of following day. [5] Recording gage. T. Trace or 0.005 inch or less. * Included in next measurement. // Windshield on gage. Italics data interpolated. § Partly interpolated. (A) Record from cooperative station gage. (B) Record from river station gage. ‡ Received too late to be included in means and extremes.

Daily Evaporation (inches), Mean Temperature (F°), and Wind Movement (miles) for February 1946

(See precipitation data in daily precipitation table)

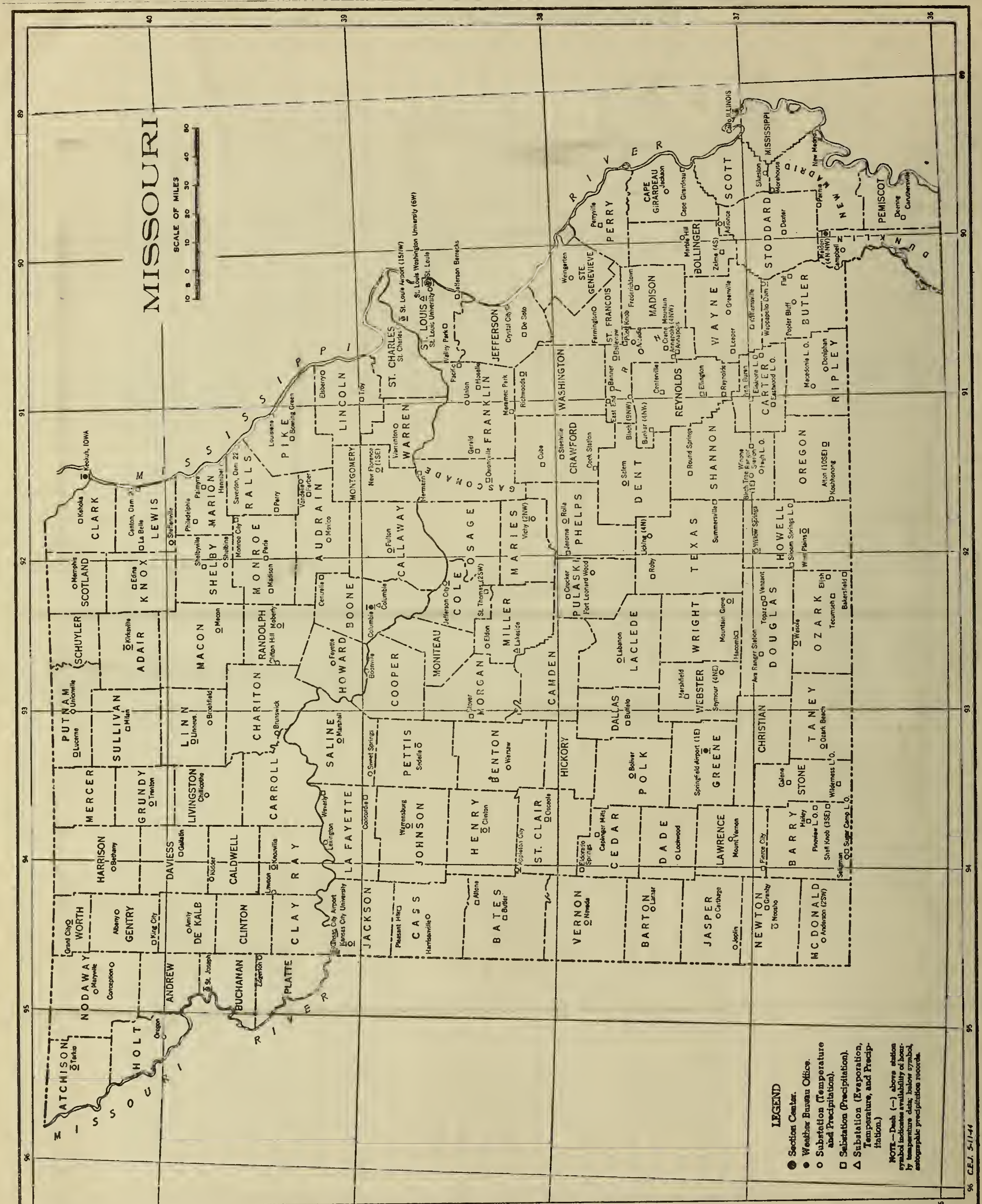
Station	Data	Day of month																															Monthly
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	..	..	..	
Columbia (Univ. of Mo. Hort. Exp. Sta. 9 mi. WNW.)	Evaporation	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.....
	Mean temperature	34	38	40	55	56	38	42	46	28	30	37	46	36	26	23	43	34	38	38	34	44	48	44	40	52	52	30	44	..	..	..	39.8
	Wind movement	131	72	104	151	216	312	105	96	98	29	23	178	140	215	97	155	38	29	150	89	114	46	106	99	115	188	132	141	..	..	..	3,369
Lakeside (Osage Dam)	Evaporation	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.....
	Mean temperature	32	39	38	46	58	46	42	41	33	35	38	37	36	30	36	38	41	38	38	38	43	48	42	41	50	46	39	46	..	..	..	40.6
	Wind movement	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
St. Louis (Washington University)	Evaporation	....	....	....	....	.004	....	....	....	....	....	....	....	.072	....	....	....	....	....	....	....	....	....	.080	.006	.070	.156	....	....	....	....	....	.....
	Mean temperature	35	42	39	44	55	38	40	47	30	31	38	38	40	30	26	38	38	38	38	36	40	48	36	40	52	48	32	44	..	..	..	39.3
	Wind movement	51	42	50	50	75	69	72	42	94	103	42	42	62	97	88	70	65	20	64	54	35	47	47	46	48	89	68	47	..	..	..	1,679

Observations taken at 8:00 a. m. except at 5:00 p. m. at Columbia. For Lakeside and St. Louis (Washington University) descriptions see April 1932 and August 1938 reports, respectively. * Included in next measurement.

Daily Temperatures for February 1946

Stations		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	..	..	..	Mean
Northern Division																																	
Brunswick /	Maximum	46	51	60	66	69	44	57	41	40	45	50	60	27	40	43	53	49	41	47	44	59	62	51	49	71	48	40	65	..	..	..	50.6
	Minimum	14	21	23	24	44	27	23	23	20	18	18	27	27	8	10	11	25	24	33	28	25	34	33	32	33	33	23	20	..	..	..	24.3
Chillicothe /	Maximum	43	49	60	75	70	41	54	36	39	46	48	54	24	39	43	49	51	41	47	44	59	60	50	50	72	39	47	66	..	..	..	49.9
	Minimum	12	23	21	29	44	25	24	27	17	18	19	29	19	14	9	13	21	21	32	21	27	31	31	31	32	32	18	18	..	..	..	23.5
Columbia	Maximum	46	59	60	67	66	45	61	50	38	43	53	55	43	38	46	53	49	44	44	44	58	64	44	50	74	58	39	67	..	..	..	52.1
	Minimum	25	26	27	46	29	29	25	26	20	20	27	39	22	14	8	34	28	34	33	27	35	35	32	35	36	28	25	31	..	..	..	28.4
Fayette	Maximum	46	52	58	67	67	45	59	52	39	45	53	59	50	40	40	54	46	41	44	44	58	64	54	50	72	66	39	66	..	..	..	52.5
	Minimum	21	20	24	43	36	27	22	33	18	17	22	34	22	15	4	35	21	30	32	24	33	32	31	33	32	34	21	25	..	..	..	26.5
Grant City	Maximum	38	33	53	64	67	38	48	42	41	43	44	48	30	35	50	49	50	44	46	42	60	52	53	48	73	60	37	66	..	..	..	48.4
	Minimum	24	15	18	38	21	20	18	22	13	29	26	28	15	15	6	33	20	24	30	18	34	31	28	31	30	30	14	28	..	..	..	23.5
Hannibal	Maximum	45	37	47	58	62	34	45	52	36	40	45	57	43	34	41	49	47	39	43	40	50	58	40	44	70	57	36	64	..	..	..	46.9
	Minimum	24	19	19	42	26	28	21	24	16	17	26	32	21	7	3	29	24	27	31	23	30	33	28	31	32	28	20	24	..	..	..	24.5
Kansas City Airport	Maximum	45	60	61	72	65	46	62	49	46	49	53	54	28	43	52	53	49	41	48	49	60	65	57	53	71	58	47	67	..	..	..	53.7
	Minimum	30	29	26	50	30	29	27	24	20	20	30	28	20	19	17	33	28	33	33	27	43	35	34	38	38	32	21	40	..	..	..	29.8
Kirksville	Maximum	42	34	44	56	60	48	45	40	37	42	43	53	48	34	34	47	48	38	45	40	51	55	45	44	68	61	35	62	..	..	..	46.4
	Minimum	21	15	16	38	40	23	20	30	16	16	26	30	20	14	4	29	22	26	32	21	31	33	29	32	31	30	18	24	..	..	..	24.5
Lawson	Maximum	43	58	59	69	65	42	60	50	47	46	42	52	40	41	46	50	51	42	41	46	57	63	51	53	71	63	50	66	..	..	..	52.3
	Minimum	26	26	22	42	27	25	22	25	17	19	17	35	18	14	10	28	28	30	33	22	33	33	30	31	30	33	17	29	..	..	..	25.8
Louisiana	Maximum	42	49	46	60	65	62	49	57	40	40	50	53	46	34	36	51	48	42	43	43	52	59	52	44	70	66	37	64	..	..	..	50.0
	Minimum	19	16	23	43	47	28	21	39	20	17	21	31	26	16	0	30	20	23	34	27	32	34	30	30	34	36	25	22	..	..	..	26.6
Macon /	Maximum	45	45	52	64	68	41	50	47	39	43	48	54	25	35	45	49	49	39	45	42	55	60	43	48	69	42	36	64	..	..	..	47.9
	Minimum	10	16	17	19	43	24	22	24	16	15	17	26	24	14	3	5	22	23	27	23	23	33	30	31	32	32	19	19	..	..	..	21.8
Maryville	Maximum	38	36	56	64	65	38	54	46	42	48	47	47	28	38	54	47	49	42	45	41	60	55	55	48	72	63	37	67	..	..	..	49.4
	Minimum	19	20	19	40	22	21	17	21	13	19	26	28	15	15	8	30	23	28	32	20	37	30	28	28	32	30	13	30	..	..	..	23.7
Mexico /	Maximum	45	53	55	65	63	44	53	57	38	43	50	55	32	33	41	51	46	39	42	43	53	60	42	47	72	46	36	65	..	..	..	48.9
	Minimum	13	23	24	25	47	27	23	25	18	17	18	28	30	15	4	7	20	20	30	26	25	36	30	31	31	30	24	23	..	..	..	23.9
Moberly /	Maximum	45	52	56	64	65	42	52	47	42	43	49	57	25	35	44	49	47	39	44	42	54	60	44	47	70	41	41	64	..	..	..	48.6
	Minimum	13	24	21	36	47	26	22	32	18	15	16	33	23	11	1	8	20	26	30	23	30	34	31	31	33	41	19	21	..	..	..	24.5
Oregon	Maximum	42	52	61	68	68	42	60	51	46	50	45	51	30	44	59	48	54	44	48	49	64	60	59	53	74	64	44	69	..	..	..	53.5
	Minimum	24	26	23	24	24	23	25	22	16	23	27	29	11	19	10	35	24	33	32	22	38	34	29	32	35	30	15	40	..	..	..	25.9
St. Charles /	Maximum	50	58	50	61	62	43	50	60	41	38	54	47	39	38	49	60	45	43	40	42	50	63	45	42	71	57	37	60	..	..	..	49.8
	Minimum	22	23	26	35	49	30	28	34	24	23	22	33	36	20	10	10	26	27	32	29	32	35	30	32	35	38	26	26	..	..	..	28.3
St. Joseph	Maximum	42	53	61	68	66	42	60	47	46	50	46	50	27	42	58	49	52	43	48	46	62	61	57	52	73	56	43	69	..	..	..	52.5
	Minimum	29	26	24	47	25	28	29	22	19	26	29	24	19	16	15	32	25	33	33	26	40	34	31	34	37	28	17	35	..	..	..	28.0
Trenton	Maximum	43	36	57	67	66	41	51	49	41	47	46	53	51	35	42	49	48	45	47	42	56	58	52	55	72	70	38	65	..	..	..	50.8
	Minimum	23	18	20	42	24	20	28	29	16	27	27	35	17	22	9	35	20	22	30	27	34	38	27	31	30	32	17	28	..	..	..	26.0
Unionville /	Maximum	42	30	45	59	66	39	45	36	42	44	45	52	24	34	41	50	50	41	47	42	55	57	47	46	70	39	38	64	..	..	..	46.1
	Minimum	5	13	13	15	42	20	15	15	14	13	14	30	17	11	3	3	20	19	27	17	17	30	27	27	29	30	17	18	..	..	..	18.6
Warrenton	Maximum	50	57	54	59	64	61	53	62	43	42	53	48	44	45	43	58	51	44	41	46	52	65	57	48	72	65	38	65	..	..	..	52.9
	Minimum	21	20	24	47	55	28	22	38	20	20	22	33	30	15	1	36	20	29	32	26	28	36	31	30	33	35	23	23	..	..	..	27.8
Keokuk, Iowa	Maximum	41	28	42	55	66	37	42	47	34	40	37	56	33	30	40	47	47	40	45	38	45	51	42	44	67	56	33	63	..	..	..	44.5
	Minimum	23	14	16	40	27	25	18	24	17	19	29	33	22	8	6	31	24	29	33	22	33	31	31	31	33	30	23	27	..	..	..	25.0
Southwestern Division																																	
Clinton	Maximum	46	59	60	71	68	47	65	48	40	42	57	55	38	44	50	56	53	40	47	50	61	63	53	55	73	53	44	65	..	..	..	53.7
	Minimum	29	25	34	49	31	29	25	25	21	22	27	38	21	14	14	33	30	35	35	30	36	38	33	32	34	29	24	30	..	..	..	29.2
Eldon	Maximum	48	60	57	66	65	56	63	57	40	45	55	54	50	40	50	59	52	48	42	49	59	66	60	54	72	69	41	66	..	..	..	55.1
	Minimum	26	24	31	46	55	29	25	37	20	19	24	37	23	14	12	39	29	33	33	26	33	39	34	34	32	37	24	27	..	..	..	30.1
Harrisonville /	Maximum	48	60	61	71	64	44	64	42	44	49	52	53	24	46	42	58	51	41	49	48	59	65	52	53	71	46	42	65	..	..	..	52.3
	Minimum	28	26	24	35	50	22	26	34	15	19	23	26	18	9	11	17	25	22	31	23	28	35	32	31	34	40	20	21	..	..	..	25.9
Jefferson City	Maximum	48	60	60	67	65	46	64	58	42	44	53	57	44	39	51	59	50	43	42	49	59	67	55	53	74	60	40	68	..	..	..	54.2
	Minimum	24	21	26	45	30	29	21	28	19	20	20	36	22	17	10	38	27	32	31	29	30	35	32	33	32	40	23	24	..	..	..	27.6
Joplin	Maximum	47	60	56	68	64	48	61	58	40	47	58	54	50	42	58	59	58	51	51	53	60	70	58	58	73	64	50	65	..	..	..	56.5
	Minimum	33	31	42	54	36	30	38	33	24	27	31	42	21	17	24	43	39	41	36	33	45	43	38	41	48	37	32	41	..	..	..	35.7
Lamar /	Maximum	52	60	60	70	65	50	65	60	41	49	58	54	34	40	58	60	57	43	54	53	60	68	56	58	73	53	51	66	..	..	..	56.0
	Minimum	16	24	30	37	54	28	27	32	22	19	21	23	29	12	12	19	35	35	34	27	27	34	35	33	37	43	25	27	..	..	..	28.5
Lebanon	Maximum	49	58	55	66	64	53	61	59	41	56	50	49	50	39	54	59	59	46	48	52	59	68	67	55	72	66	44	65	..	..	..	55.9
	Minimum	26	24	35	44	53	27	27	40	20	22	35	34	22	14	14	37	30	37	33	26	34	37	36	32	35	41	24	28	..	..	..	31.0
Lexington /	Maximum	50	52	62	64	72	70	65	42	46	50	54	60	37	45	49	56	52	44	46	50	60	70	58	54	72	50	52	57	..	..	..	55.0
	Minimum	27	28	34	42	44	27	35	35	19	20	27	37	24	15	14	27	22	33	34	34	35	38	44	38	38	38	20	28	..	..	..	30.6
Marshall	Maximum	46	62	60	73	73	49	65	65	41	47	56	62	51	39	46	55	48	46	47	51	61	67	60	50	72	69	38	42	..	..	..	55.0
	Minimum	27	26	25	42	41	29	24	33	19	18	26	34	20	15	10	39	25	34	33	26	33	35	32	33	33	34	21	29	..	..	..	28.4
Mountain Grove	Maximum	52	56	51	56	60	56	59	57	53	43	51	50	46	42	50	61	60	54	48	51	58	66	65	56	72	68	46	63	..	..	..	55.4
	Minimum	27	27	34	41	54	27	28	39	25	20	26	30	24	17	17	34	33	36	34	28	32	39	38	36	35	42	26	29	..	..	..	31.4
Neosho	Maximum	50	57	62	68	66	48	62	59	40	48	58	55	53	45	61	62	63	57	52	56	64	71	67	60	73	70	50	55	..	..	..	58.3
	Minimum	30	22	34	51	45	30	27	38	24	19	22	40	22	16	21	40	33	40	36	24	35	34	39	30	39	49	22	31	..	..	..	31.9
Nevada	Maximum	48	60	62	71	66	49	65	55	43	49	59	54	48	44	56	60	58	51	53	54	59	72	64	59	72	66	51	66	..	..	..	57.6
	Minimum	30	24	36	51	39	28	26	36	21	18	21	35	22	11	17	39	33	38	35	26	40	33	33	34	39	43	24	35	..	..	..	31.0
Sedalia	Maximum	45	57	59	69	66	45	62	59	39	46	55	57	50	40	47	54	50	47	44	47	59	67	60	51	71	68	40	65	..	..	..	54.2
	Minimum	27	24	31	46	41	28	25	34	18	18	25	36	22	11	8	41	28	35	32	26	35	36	33	31	34	36	22	30	..	..	..	29.0
Springfield . 4 mi. NW	Maximum	47	59	52	65	63	45	63	57	39	46	53	52	46	41	58	59	56	46	49	50	60	68	50	55	70	58	45	65	..	..	..	54.2
	Minimum	25	25	35	46	32	29	28	32	22	23	24	35	20	16	20	35	33	38	32	28	36	38	37	33	39	28	26	31	..	..	..	30.2
Warrensburg	Maximum	46	59	60	69	69	46	64	61	41	46	55	58	50	43	45	55	52	47	47	47	60	68	62	63	71	68	43	66	..	..	..	55.8
	Minimum	29	28	26	46	37	28	26	34	19	20	27	36	20	12	13	37	27	34	32	27	35	41	34	34	34	37	22	32	..	..	..	29.5
Southeastern Division																																	
Arcadia /	Maximum	55	56	58	60	62	50	60	60	37	45	57	50	50	45	46	65	55	50	55	52	58	69	55	57	69	60	46	60	..	..	..	55.1
	Minimum	17	19	19	25	44	29	25	24	30	28	17	17	32	22	14	14	30	26	26	26	24	25	32	35	30	32	25	19	..	..	..	25.2
Birch Tree .. ½ mile E	Maximum	55	56	52	..	61	48	61	55	51	44	52	52	52	47	49	63	60	..	54	52	57	68	55	56	73	..	..	63	..	..	..	[d]55.7
	Minimum	15	16	24	..	45	28	19	46	30	24	15	31	25	21	15	26	35	..	30	21	27	28	28	34	30	..	..	20	..	..	..	[d]26.4
Caruthersville	Maximum	55	56	59	58	65	63	58	51	48	42	49	53	63	50	52	62	56	56	54	50	58	68	60	60	67	64	54	59	..	..	..	56.8
	Minimum	26	25	34	45	56	45	30	44	35	27	23	32	45	29	24	28	38	40	43	30	32	42	42	33	37	53	35	31	..	..	..	35.9
Crystal City	Maximum	56	58	58	56	66	61	58	67	57	44	59	51	49	48	46	67	59	46	45	50	55	68	63	54	71	69	43	63	..	..	..	56.7
	Minimum	17	19	24	48	54	30	25	36	26	25	17	31	37	21	13	37	28	26	35	30	29	34	36	29	35	42	26	22	..	..	..	29.7
Doniphan	Maximum	60	58	56	56	61	60	63	59	56	48	56	53	56	53	48	66	58	53	55	58	61	72	58	63	74	68	62	68	..	..	..	59.2
	Minimum	14	16	20	46	55	28	20	46	31	26	14	23	26	26	19	26	34	33	39	31	22	29	42	28	28	47	25	20	..	..	..	29.1
Farmington	Maximum	54	55	55	51	62	57	57	59	49	40	56	47	46	44	44	64	55	47	44	49	54	67	62	53	69	63	42	60	..	..	..	53.8
	Minimum	22	23	30	45	51	29	28	42	26	24	20	31	37	21	13	33	31	28	34	29	29	33	37	33	33	41	19	23	..	..	..	30.2
Jackson	Maximum	54	52	52	51	59	58	55	53	47	39	57	49	58	59	47	64	59	56	51	50	56	70	65	54	66	65	47	58	..	..	..	55.4
	Minimum	19	19	26	43	*51*	26	23	33	25	*24*	17	28	41	25	16	31	32	..	..	..	26	31	39	27	33	47	28	22	..	..	..	[c]29.3
Poplar Bluff	Maximum	57	57	57	55	62	58	61	52	49	46	50	52	62	51	46	64	55	53	52	57	59	71	58	60	71	*63*	52	62	..	..	..	56.9
	Minimum	19	19	22	45	52	30	23	42	32	26	19	23	*32*	25	19	28	37	35	40	27	24	31	35	30	28	40	26	22	..	..	..	29.7
Rolla /	Maximum	51	57	56	60	60	46	62	62	40	43	55	48	35	41	51	60	52	48	42	48	56	66	48	53	71	54	41	63	..	..	..	52.5
	Minimum	21	28	32	43	50	28	27	35	21	21	23	35	33	16	13	24	31	33	33	28	31	39	36	35	35	48	25	26	..	..	..	30.4
St. Louis	Maximum	50	56	52	58	63	46	51	64	37	38	54	50	44	38	42	61	47	47	42	44	50	61	45	45	69	58	34	61	..	..	..	50.2
	Minimum	27	30	28	46	35	32	32	32	24	24	29	34	24	15	12	37	31	34	35	30	33	43	34	37	36	34	28	29	..	..	..	30.9
Salem	Maximum	53	58	52	56	62	52	62	61	48	44	57	49	44	42	49	62	55	49	45	50	56	68	57	54	71	62	44	62	..	..	..	54.4
	Minimum	22	20	32	43	52	28	24	42	24	23	20	32	25	17	15	34	30	34	33	26	29	33	40	34	32	39	24	23	..	..	..	29.6
Sikeston /	Maximum	56	56	61	58	59	52	58	50	37	43	54	56	63	49	43	62	55	56	50	52	57	70	51	59	68	63	51	59	..	..	..	55.3
	Minimum	26	25	25	30	46	33	28	29	34	28	24	25	30	29	19	21	35	32	34	30	29	32	39	31	35	38	31	27	..	..	..	30.2
Union ......1½ mi. SE	Maximum	50	66	58	60	65	61	59	64	45	41	54	50	48	39	47	60	50	45	42	45	55	64	59	50	73	68	40	63	..	..	..	54.3
	Minimum	19	18	22	47	55	30	24	36	23	23	18	*30*	30	19	12	39	25	26	33	29	28	31	35	31	34	40	25	21	..	..	..	28.7
West Plains	Maximum	56	57	50	59	60	47	61	54	39	46	52	49	52	49	52	62	61	47	51	54	58	68	57	60	72	60	49	63	..	..	..	55.2
	Minimum	17	16	22	45	36	25	20	38	30	20	18	30	24	22	17	24	33	30	33	24	27	30	39	30	28	34	23	20	..	..	..	27.0
Cairo, Ill.	Maximum	52	53	59	56	60	51	54	50	46	41	51	53	62	48	41	59	54	55	47	48	54	66	54	54	65	62	47	57	..	..	..	53.5
	Minimum	29	28	36	46	51	35	33	46	35	27	27	34	34	30	20	37	38	37	38	34	34	41	37	35	39	42	34	31	..	..	..	35.3

/ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs. [a], [b], [c], etc., number of days missing, for example. [b] indicates two days missing. Italics data interpolated. § Partly interpolated.



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CLIMATOLOGICAL DATA

19

MISSOURI SECTION

H. F. WAHLGREN
ST. LOUIS, MO.

VOL. L — MARCH 1946 — No. 3

PRICE: 5 CENTS A COPY; 25 CENTS A YEAR

GENERAL SUMMARY

Unseasonably mild weather, for this time of year, prevailed in Missouri during March and all vegetation and field work was approximately four weeks ahead of normal advancement at the close of the month. It was a very favorable month for all outdoor work and for the growth of wheat, grasses and other crops that had been planted. However, the unseasonable advancement of all fruits and berries caused great concern as to their chances of escaping serious damage or being entirely killed by later frosts or freezing temperatures, which usually occur during the first half of April or even later.

It was the warmest March since 1910 and the second warmest of record in the 59 years that State-wide records have been kept; also, it was the third consecutive month of the current year with average temperature well above normal, the average for the three months being approximately 7° warmer than the normal for the period January to March, inclusive. The unusually mild weather was State-wide, all three divisions of the State averaging from approximately 10° to 12° above their respective normals and not a single reporting station had a subnormal monthly average. There were no freezing temperatures, or frost formation, during the latter half of the month, as a rule, except at a few scattered stations. The 9th and 10th were generally the coldest days, while the 29th and 31st were generally the warmest days of the month. There were no unusual extremes of temperature for the month, as a whole, but the maximum on the 31st was the highest of record, for that date, at a number of stations. No zero temperatures occurred anywhere in the State and the average number of days with minimum 32°, or lower, was only 4.

Precipitation was irregularly distributed during March, averaging approximately one inch more than normal over the Northern Division, and slightly more than one inch below normal over the Southwestern and Southeastern divisions. Showers were rather frequent in the Northern half of the State, several stations in that area reporting rain on 12 to 15 days during March. During February this was the driest section of the State. Practically all of the month's precipitation was from rain, snowfall being of little consequence and the ground was not covered for more than one day, at any place. Measurable snowfall was confined to the extreme Northwestern and extreme Northeastern tier of counties. Most stations in the southern half of the State reported no snowfall.

Minor overflows occurred in portions of the Grand, Meramec, and Mississippi rivers during March. In the reach from Keokuk to Grafton the Mississippi was above flood stage continuously after the 14th.

Fruit trees bloomed heavily during the month and the prospects for a bumper crop of all fruits were exceptionally good at the end of March, barring subsequent damage by frost or freezing temperatures. Most of the oat crop was sown during the month under favorable weather and soil conditions and was coming up to good stands, at the close. Most early gardens and potatoes were planted. Wheat and grass made excellent growth and were in good condition throughout March. Much plowing for corn and soybeans was accomplished during the

(Continued on page 19)

PRESSURE, WIND, HUMIDITY, AND SUNSHINE

Stations	Sea-level pressure, extremes-inches				Wind				Relative humidity				Percentage of sunshine	Degree days
	Highest	Date	Lowest	Date	Average hourly velocity	Maximum velocity	Direction	Date	12:30 a. m.	6:30 a. m.	12:30 p. m.	6:30 p. m.		
Columbia	30 49*	10	29.42*	16	8.5	29	nw.	8	73*	79*	56*	62*	57	287
K. C. Airport	30.51	10	29.38	16	11.8	43	nw.	8	73	81	58	56	55	300
St. Joseph	30.52*	10	29.38*	16	9.8	30	nw	8	82*	86*	63*	64*	53	343
St. Louis	30.45*	10	29.48*	16	13.1	34	sw.	6	72*	80	56	60*	57	252
Springfield	30.51	10	29.39	16	15.2	43	w.	8	82	91	59	46	71	328
Cairo, Ill.	30.48	11	29.50	16	10.1	31	se.	16	..	82	59	..	59	196
....	.....	..	.....	..	....	..	......	..	..	..	..	..	..	....

* Data for Airport station.

COMPARATIVE DATA FOR MARCH

Year	Temperature			Precipitation					Number of days			
	Average for State	Highest	Lowest	Average for State	Average, Northern Division	Average, Southwestern Division	Average, Southeastern Division	Snowfall, Average for State	Precip. .01 inch or more	Clear	Partly cloudy	Cloudy
1888	38.5	90	1	3.90	4.13	4.37	3.19	....	10	..	..	..
1889	44.3	84	13	2.22	1.26	3.37	2.02	....	5	..	..	..
1890	37.3	79	−11	3.51	2.00	2.40	6.12	5.7	8	..	..	..
1891	36.6	78	−11	2.66	3.03	2.26	2.68	7.1	10	..	..	..
1892	38.9	87	5	2.98	3.31	3.46	2.18	....	8	8	10	13
1893	40.5	86	0	2.92	2.49	2.71	3.57	3.2	7	11	10	10
1894	47.7	89	2	3.22	2.29	2.95	4.43	0.2	6	15	9	7
1895	42.4	98	0	2.36	1.49	2.39	3.21	4.4	9	14	7	10
1896	39.2	82	2	2.22	1.15	2.04	3.47	5.2	8	11	9	11
1897	44.2	82	− 5	6.73	4.38	5.62	10.18	1.0	12	9	9	13
1898	44.7	83	9	7.44	5.26	6.42	10.63	0.6	11	11	7	13
1899	37.4	78	− 8	2.92	3.19	2.34	3.23	8.9	10	9	11	11
1900	40.4	88	− 4	1.52	1.43	1.35	1.79	0.2	6	15	9	7
1901	42.7	85	− 1	3.77	3.33	4.21	3.77	1.8	8	11	8	12
1902	45.3	85	1	3.71	2.50	4.64	3.99	0.8	9	10	10	11
1903	46.8	81	9	3.62	2.34	4.17	4.34	1.1	8	13	7	11
1904	44.8	87	8	4.55	3.54	3.13	6.98	1.2	9	11	9	11
1905	50.3	88	10	3.15	2.27	3.36	3.83	T.	8	11	8	12
1906	34.6	75	− 5	3.98	2.63	3.12	6.18	8.6	11	6	7	18
1907	53.9	95	16	2.76	2.54	3.05	2.70	1.0	7	14	7	10
1908	50.1	89	14	2.98	1.38	3.33	4.22	1.0	7	14	7	10
1909	44.5	81	9	3.03	2.24	2.01	4.83	0.6	6	13	9	9
1910	55.8	96	15	0.77	0.26	1.00	1.05	0.1	2	20	7	4
1911	46.8	91	5	1.72	1.71	1.84	1.62	1.4	6	16	8	7
1912	35.2	89	− 4	4.69	3.69	5.25	5.12	16.5	11	12	6	13
1913	40.6	84	−12	4.64	3.44	4.52	5.95	5.0	9	12	8	11
1914	43.2	87	− 2	2.76	2.80	2.89	2.59	4.7	8	13	7	11
1915	36.4	70	6	1.45	1.20	2.01	1.15	7.9	6	7	8	16
1916	47.0	95	− 2	2.55	2.48	3.20	1.98	3.1	7	14	8	9
1917	45.2	86	− 7	2.69	2.70	2.80	2.57	1.5	7	15	7	9
1918	50.9	95	8	1.02	0.46	1.55	1.06	0.1	4	18	6	7
1919	46.3	90	− 2	2.40	2.27	1.44	3.49	0.7	6	15	8	8
1920	44.6	86	− 6	5.12	4.60	5.37	5.40	1.4	8	15	6	10
1921	51.9	90	11	5.06	3.52	5.32	6.34	0.5	10	13	9	9
1922	45.6	80	3	6.39	4.89	6.78	7.51	2.2	12	11	6	14
1923	40.4	83	−11	4.23	3.53	3.64	5.52	2.3	8	14	6	11
1924	38.4	80	8	2.54	2.52	2.40	2.71	9.4	8	8	8	15
1925	47.7	86	− 5	1.94	1.77	1.98	2.07	0.8	5	17	8	6
1926	39.6	83	8	2.87	2.15	2.82	3.63	7.0	8	13	6	12
1927	45.9	80	0	5.93	4.08	6.88	6.83	3.7	11	12	8	11
1928	46.3	89	10	1.61	1.00	1.58	2.24	2.4	5	15	9	7
1929	48.6	97	11	3.33	2.99	3.13	3.88	T.	8	12	8	11
1930	43.2	80	6	1.38	1.19	0.91	2.04	1.4	4	18	6	7
1931	39.5	70	10	3.18	2.57	3.05	3.91	8.8	8	11	7	13
1932	38.3	81	− 2	1.99	1.39	1.62	2.96	2.8	7	12	9	10
1933	44.1	87	5	3.61	3.05	2.79	4.99	2.0	10	11	8	12
1934	41.2	82	− 3	2.55	1.53	2.10	4.03	4.9	7	13	8	10
1935	50.4	87	8	5.76	2.46	5.10	9.73	0.7	9	10	10	11
1936	49.4	84	13	1.27	0.82	1.00	1.98	T.	5	16	9	6
1937	40.4	77	6	1.66	1.27	2.15	1.56	2.8	6	12	8	11
1938	53.6	90	14	4.98	3.73	4.42	6.79	T.	12	13	7	11
1939	47.1	89	− 4	3.08	3.33	2.20	3.70	0.2	8	15	7	9
1940	43.1	89	0	2.44	2.07	2.43	2.83	4.0	8	9	9	13
1941	40.5	78	7	0.78	0.86	0.76	0.72	3.4	5	13	9	9
1942	45.8	84	8	2.05	2.05	1.48	2.63	0.7	7	12	8	11
1943	39.7	87	−22	2.63	1.41	2.58	3.90	5.0	8	13	9	9
1944	41.4	83	6	3.78	4.10	3.85	3.39	2.7	12	10	8	13
1945	52.6	89	2	7.44	5.10	6.98	10.25	1.0	12	13	7	11
1946	55.3	92	12	2.82	3.52	1.93	3.00	0.2	9	10	10	11
....	....	..	....	....	....	....	....	....	..	..	..	..
....	....	..	....	....	....	....	....	....	..	..	..	..
Period	**44.2**	**98**	**−22**	**3.24**	**2.55**	**3.13**	**4.05**	**2.9**	**8**	**13**	**8**	**10**

Climatological Data for March 1946

Stations	Counties	Elevation, feet	Temperature, in degrees Fahr.							Precipitation, in inches						Number of days				Prevailing direction of wind	Observers
			Length of record, years	Mean	Departure from the normal	Highest	Date	Lowest	Date	Length of record, years	Total	Departure from the normal	Greatest in 24 hours [4]	Date	Total snowfall, unmelted	With precip., .01 inch or more	Clear	Partly cloudy	Cloudy		
Northern Division																					
Albany	Gentry	930	5	53.4[a]	......	85[a]	31	19[a]	9	17	4.98	+3.29	0.93	16	1.0	15	14	9	8	s.	Curtis E. Grace
Amity	DeKalb	1,007	0	53.1	......	84	31	21	10	11	4.80	+2.53	1.53	16	1.0	12	9	9	13	se.	O. M. Colhour
Bethany	Harrison	916	51	52.2	+11.9	82	31	18	9	53	4.79	+2.56	0.87	16	1.0	11	9	6	16	se.	B. A. McGregor
Brookfield	Linn	767	5	53.5	......	83	29	21	9†	5	3.08	......	0.73	17	0	11	12	7	12	sw.	G. F. Breen
Brunswick	Chariton	652	65	53.8	+11.9	85	31	22	9	67	2.79	+0.09	1.12	22–23	0	15	12	5	14	se.	O. K. Benecke
Canton, Lock & Dam 20	Lewis	488	8	51.6	......	77	3	18	10	16	2.08	−0.26	0.47	5–6	0.2	14	11	7	13	s.	Lockmaster
Chillicothe	Livingston	779	37	53.1	+11.4	85	31	21	9	40	3.74	+1.26	1.04	16–17	0	13	26	1	4	se.	Wm. J. Olenhouse
Clifton Hill	Randolph	731	47	55.2[e]	+13.0	82[e]	31	22[e]	9	37	2.66§	−0.08	0.95	23	T.	12	9[e]	6[e]	11[e]	sw.	Dr. A J. Bradsher
Columbia	Boone	740	56	56.0	+13.1	85	31	23	9	56	2.41	−0.53	0.86	22–23	T.	13	10	13	8	s	U. S. Weather Bureau
Conception	Nodaway	1,108	57	53.4	+13.6	83	31	20	9†	62	6.51	+4.86	1.39	16	1.0	13	9	9	13	se.	Fr. Adelhelm Hess
Edgerton	Platte	856	26	55.4	+12.2	88	31	22	10	43	3.35	+1.09	0.85	16†	0	9	14	8	9	sw.	W. A. Foster
Elsberry	Lincoln	449	15	54.8	+11.3	82	3†	21	9	15	3.11	+0.35	0.89	17–18	0	11	16	6	9	se.	Soil Conservation Service
Fayette	Howard	760	66	55.2	+13.3	83	31	19	9	63	3.12	+0.30	2.15	22–23	0	10	12	6	13	se.	Irvin E. Schnell
Fulton	Callaway	818	58	55.0	+10.9	83	31	22	9	54	2.50	−0.46	0.71	23	T.	11	21	4	6	s.	Frank E. Hillgartner
Grant City	Worth	1,134	42	51.9	+10.6	82	31	18	9	54	4.68	+2.67	1.07	5	2.8	14	8[a]	11[a]	11[a]	e.	J. Homer Korn
Hannibal	Marion	759	54	53.7	+12.7	79	29	19	9	62	3.48	+0.88	0.73	17	T.	14	6	15	10	s.	Hannibal Water Dept.
Kansas City Airport	Jackson	741	57	55.6	+12.9	89	31	26	10	57	2.48	+0.17	0.95	4–5	T.	12	6	8	17	s.	U. S. Weather Bureau
Kansas City Univ.	Jackson	908	8	57.6	......	86	29	26	10	8	2.56	......	0.86	4–5	0	9	6	13	12	sw.	University of Kansas City
Kidder	Caldwell	1,020	54	52.2	+11.4	83	31	19	10	58	3.64	+1.45	1.09	5	1.5	12	8	9	14	s.	Mrs. Geraldine Terry
Kirksville	Adair	969	57	52.9	+13.2	80	31	12	9	64	4.52	+1.58	1.37	22–23	T.	13	18	2	11	s.	Dr. Willis J. Bray
Knoxville	Ray	960	1	53.0	......	83	31	22	9	2	2.98	......	1.17	22–23	T.	11	4	7	20	s	C. C. A. Station
Lawson‡	Ray	1,070	8	53.6	......	86	31	21	9	8	2.48	−0.22	0.81	16	0.6	7	11	12	8	s.	Elmer E. Lamb
Louisiana	Pike	469	52	55.6	+12.1	80	2†	22	9	65	2.63	−0.84	0.62	14	0	12	15	6	10	s.	Stark Bro's Nurseries
Macon	Macon	875	47	52.2	+10.0	82	31	19	9	53	3.50	+0.66	1.12	22–23	T.	15	11	5	15	se.	John W. Atwell
Maryville	Nodaway	1,169	56	52.0	+14.1	81	31	19	9†	52	6.81	+4.94	1.33	16	2.5	14	9	4	18	se.	R. B. Montomery
Memphis	Scotland	787	7	50.4	......	80	28	13	10†	16	3.68	+1.32	0.82	22–23	0.5	14	12	6	13	se.	John W. Alexander
Mexico	Audrain	800	57	54.3	+12.3	82	29†	21	9	68	2.89	−0.02	0.80	22–23	T.	10	12	13	6	s.	Darrence W. Stuart
Moberly .....3½ mi. NE	Randolph	860	9	53.6	+10.0	82	31	19	9	9	2.89	+0.21	1.11	22–23	0	11	8	7	16	s.	F. W. Bell
New Florence. 1 mi SE	Montgomery	885	3	53.9	......	80	31	21	9	4	2.10	......	0.61	14	T.	10	11	1	19	s.	U. S. Weather Bureau
Oregon	Holt	1,048	90	53.4	+13.8	88	31	20	9	90	5.52	+3.56	1.46	22–23	3.0	13	15	8	8	sw.	James M. Curry
St. Charles	St. Charles	520	58	55.0	+10.5	80	29	24	9	68	3.05	−0.12	1.09	6	0	11	22	5	4	s.	Martin L. Comann
St. Joseph	Buchanan	957	36	54.0	+13.5	88	31	24	10	74	4.80	+2.32	1.22	22–23	2.0	15	11	10	10	s.	U. S. Weather Bureau
Saverton, Lock No. 22.	Ralls	472	8	54.8	......	79	3	21	9	8	2.71	......	0.80	16	T.	12	21	1	9	se.	Lockmaster
Shelbina	Shelby	779	5	54.0	......	81	31	19	9	53	2.83	+0.04	1.19	23	T.	10	17	3	11	se.	Guyman Hatcher
Steffenville	Lewis	650	48	54.0	+11.8	79	29†	19	9	53	4.00	+0.99	1.38	23	0.2	13	12	9	10	s.	Mrs. Fannie V. Gross
Tarkio	Atchison	916	43	50.2	+10.1	88	31	14	9	52	7.31	+5.64	1.46	25	3.0	12	4	10	17	s.	C. A. A. Station
Trenton	Grundy	822	50	54.3	+13.2	83	31	20	10	51	3.64	+1.19	0.65	16–17	1.0	15	9	13	9	s.	W. H. Estes
Unionville	Putnam	1,062	53	50.0	+11.1	80	31	15	9	53	4.99	+2.49	1.60	22	T.	12	13	11	7	e.	Mrs. Dora A. Wilson
Vandalia	Audrain	766	2	54.8	......	80	29	21	9	7	2.46	......	0.70	5–6	T.	6	16	11	4	s.	Mrs. Naomi K. Stoutz
Warrenton	Warren	816	64	55.2	+12.7	82	29	20	9	56	2.49	−0.69	0.63	14	T.	8	18	11	2	sw.	W. T. Zimmerman
Keokuk, Iowa	Lee, Ia.	574	74	53.0	+14.1	78	29	16	10	74	2.84	+0.46	0.86	5.6	2.0	14	8	13	10	s.	U. S. Weather Bureau
Division means	**and extremes**	.....	..	**53.7**	**+12.2**	**89**	**31**	**12**	**9**	..	**3.52**	**+0.97**	**2.15**	**22–23**	**0.6**	**12**	**12**	**8**	**11**	s.	
Southwestern Division																					
Anderson ...1½ mi sw	McDonald	1,000	42	53.1	+ 4.3	92	31	18	9	47	1.76	−1.94	0.54	15–16	T.	6	17	4	10	sw.	Samuel G. Chamberlain
Appleton City	St. Clair	813	51	55.3	+10.2	86	31	22	9	54	1.76	−1.39	1.03	16–17	0	7	8	10	13	sw.	Rolla Brown
Bolivar	Polk	1,071	43	56.0	+ 9.7	86	31	26	9	51	1.37	−2.06	0.51	17–18	T.	7	6	15	10	sw.	Southwest Baptist College
Boonville	Cooper	650	8	54.2	......	85	31	22	9	69	2.70	−0.34	0.90	22–23	0	10	10	9	12	s.	Boonville Water Dept.
Carthage	Jasper	962	12	55.6	......	89	31	23	9	22	1.70	......	0.32	17–18	0	10	3	23	5	s.	Carthage W. and E. Plant
Clinton	Henry	786	53	56.3	+11.3	88	31	24	9	59	1.59	−1.77	0.87	16	0	5	8	11	12	s.	U. S. Weather Bureau
Eldon	Miller	934	51	56.6[a]	+13.0	88[a]	31	24[a]	9	47	1.69	−1.35	0.39	6	T.	7	8[a]	8[a]	14[a]	s.	Ira M. Wilson
Fort Leonard Wood	Pulaski	1,107	5	56.8[f]	.....	80[g]	2	27[f]	9	5	1.20	......	0.70	5–6	0	3	10[f]	8[f]	7[f]	s.	U. S. Army Medical Corps
Harrisonville	Cass	904	68	53.2	+11.9	81	29†	21	10	71	2.30	−0.50	1.24	22	0	7	10	10	11	s.	Jeffrey B. Patterson
Jefferson City	Cole	557	56	55.8	+12.2	87	22	21	9	64	1.83	−1.23	0.50	6†	T.	7	14	5	12	......	K. W. O. S. Radio Farm
Joplin	Jasper	1,008	24	57.3	+ 8.7	88	31	29	10	41	1.93	−1.27	0.76	17	T.	8	13	1	17	s.	Empire Dist. Electric Co.
Lakeside	Miller	595	15	54.5	+ 9.9	86	31	24	9	15	1.40	−1.35	0.43	23	0	9	10	13	8	......	W. S. Frame
Lamar	Barton	980	58	54.8	+ 8.8	88	31	25	10	65	1.76	−1.43	0.52	16–17	0	7	14	6	11	sw.	Mrs. Marie Mann
Lebanon	Laclede	1,265	58	56.2	+11.2	83	31	23	9	59	1.31	−2.17	0.40	5–6	0	8	5	11	15	sw.	Mrs. Rosa E. Montelius
Lexington	Lafayette	688	61	55.9	+12.5	87	31	25	10	62	2.48	−0.30	0.88	22–23	0	7	14	8	9	sw.	Tilton Davis
Lockwood	Dade	1,078	40	56.6	+ 9.3	88	31	26	10	50	1.38	−2.18	0.42	16–17	0	8	12	13	6	sw.	Hubert A. Nieman
Marshall	Saline	779	59	56.6	+13.6	88	31	24	9	56	2.12	−0.80	0.82	16	T.	7	11	14	6	sw.	Thomas A. Reid
Mountain Grove	Wright	1,463	45	55.0	+ 9.6	81	29	23	9	49	2.54	−1.33	1.30	5–6	0	6	7	12	12	se.	Mo. Fruit Exp. Station
Mount Vernon	Lawrence	1,174	34	54.3	+ 8.4	83	30	25	9	46	1.99	−1.90	0.92	5	0	6	4	19	8	sw.	James C. Williamson
Neosho	Newton	1,011	59	56.4	+ 8.3	88	31	23	9	63	2.05	−1.50	0.38	15–16	0	11	11	10	10	se.	U. S. Fisheries Station
Nevada	Vernon	862	53	56.4[a]	+11.5	89	31	24	10	54	2.01	−0.86	1.19	16–17	0	8	12	8	11	sw.	Henry Kraft
Ozark Beach	Taney	700	6	54.8	......	88	31	24	9	21	1 20	−1.89	0.44	23	0	5	2	12	17	sw.	Empire District Elec. Co.
Sedalia	Pettis	910	33	56.8	+14.0	85	31	24	9	35	3.35	+0.52	1.65	22–23	0	9	14	4	13	sw.	Dr. J. E. Cannaday
Seligman	Barry	1,542	45	56.9[a]	+10.3	87[a]	30	24[a]	9	43	1.92	−1.68	1.38	13	0	5	11[c]	10[c]	7[c]	s.	Floyd E. Fawver
Seymour 3½ miles NE	Webster	1,642	40	52.0	+ 6.6	81	27†	18	9	40	1.86	−1.80	0.52	5–6	T.	6	13	2	16	se.	A. L. Hailey
Springfield... 4 mi. NW	Greene	1,301	58	54.8	+11.2	86	31	26	9	58	1.04	−2.35	0.33	13	0	5	4	8	19	s.	U. S. Weather Bureau
Sweet Springs	Saline	700	5	55.8	......	85	31	21	9	5	2.57	......	1.05	23	0	9	13	11	7	s.	H F. Nelson
Warrensburg	Johnson	878	59	57.0	+13.0	86	31	24	9	66	2.07	−1.02	1.17	22–23	T.	4	12	9	10	se.	Central Teachers College
Warsaw	Benton	687	45	57.5	+10.5	87	31	22	9	51	1.60	−1.95	0.53	5–6	0	5	10	6	15	se.	Dora B. Johnson
Wasola	Ozark	1,294	5	56.8	......	84	31	25	9	6	1.65	......	0.44	13–14	0	8	13	14	4	s.	A. W. Pinckney
Division means	**and extremes**	.....	..	**55.6**	**+10.4**	**92**	**31**	**18**	**9**	..	**1.93**	**−1.20**	**2.56**	**5–6**	**0**	**7**	**10**	**10**	**11**	**sw.**	
Southeastern Division																					
Advance.... ¼ mile W	Stoddard	354	9	55.7	+ 7.7	81	29	25	11	9	1.71	−3.23	0.53	13–14	0	12	6	5	20	s.	U. S. Weather Bureau
Arcadia	Iron	926	65	54.0	+ 9.4	85	29	23	11	68	3.16	−0.89	2.00	6	0	6	10	8	13	e.	Arcadia College
Birch Tree... ½ mile E	Shannon	1,000	51	55.4[g]	+ 8.1	83[g]	29	21[g]	9	52	4.96	+0.98	3.10	5–6	T.	8	10[h]	8[h]	5[h]	sw.	R. C. Moger
Black.......9 miles NW	Iron	1,000	53	53.8	+ 8.8	84	29	17	9	53	3.63	−0.26	2.05	6	0	10	12	12	7	sw.	Claude Volner
Campbell	Dunklin	314	20	57 6	+ 9.6	80	29	29	9	20	3.17	−2.75	0.85	15–16	0	8	9	16	6	s.	Mrs. Ruth Christian
Cape Girardeau	Cape Girardeau	347	1	58.8	......	79	29†	29	9	46	1.75	−2.09	0.49	26	0	11	4	15	12	sw.	Homer R. Bolen
Caruthersville	Pemiscot	265	50	58.8	+ 7.4	80	31	30	9	54	4.76	+0.30	1.30	15	0	8	15	7	9	e.	Victor T. Malloure
Crystal City	Jefferson	420	12	57.8	+12.6	85	29	25	9†	12	2 66	−0.02	1 60	6–7	0	11	12[a]	6[a]	12[a]	se.	Richard K. Ragland
Doniphan	Ripley	344	42	57.8	+ 8.8	87	29	21	9	42	3.69	−0.70	0.82	23	0	9	13	6	12	sw.	Boyce Lackey
Farmington	St. Francois	896	35	55.9	+ 9.4	81	29	25	9	49	3.52	−0.40	2.15	5–6	T.	8	10	8	13	s.	F. M. Karsch
Greenville	Wayne	460	37	56.9[g]	+ 9.2	86[g]	29	21[g]	9	39	1.94	−2.32	1.03	5–6	0	4	10[g]	4[g]	10[g]	se.	Beuford Shoemake
Jackson	Cape Girardeau	428	55	57.2	+10.0	85	29	24	11	56	1.64	−2.53	0.48	5–6	0	12	13	8	10	s.	Danny Siebert
Koshkonong	Oregon	958	45	57.2	+ 7.8	84	29	27	9	46	4.14	+0.04	2.33	5–6	0	8	6	8	17	s.	Mrs Genevieve T. Smith

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Climatological Data for March 1946—Continued from preceding page

Stations	Counties	Elevation, feet	Temperature, in degrees, Fahr.							Precipitation, in inches						Number of days				Prevailing direction of wind	Observers
			Length of record, years	Mean	Departure from the normal	Highest	Date	Lowest	Date	Length of record, years	Total	Departure from the normal	Greatest in 24 hours [4]	Date	Total snowfall, unmelted	With precip., .01 inch or more	Clear	Partly cloudy	Cloudy		
Southeastern Division—	*Concluded*																				
Licking...... 4 miles N	Texas	1,170	9	55.0[d]	+ 7.9	81[d]	29†	22[d]	9	9	3.07	−0.06	1.66	5–6	0	6	6	5	20	s.	U. S. Forestry Service
Marble Hill	Bollinger........	532	51	57.3	+ 9.7	85	29	23	11	53	1.05	−3.23	0.60	16	0	4	11	13	7	s.	R. A. DeWitt
Poplar Bluff...........	Butler	339	41	57.6	+ 9.0	82	29†	23	9	42	2.79	−1.57	0.65	13–14	0	9	12	16	3	s	Joe Roehm
Rolla..................	Phelps...........	1,202	46	55.6	+10.1	83	31	24	9	62	2.14	−1.49	0.95	5–6	*T.*	6	7	15	9	sw.	Rolla School of Mines
St. Louis:																					
City Office	....	465	109	57.2	+13.1	81	3	27	9	109	3.08	−0.30	1.66	5–6	0	13	6	14	11	s.	**Section Center**
St. Louis Airport....	St. Louis	556	9	56.3	+13.3	81	3	25	9	15	3.22	+0.34	1.24	5–6	0	11	5	11	15	s.	U. S. Weather Bureau
St. Louis University.	St. Louis City...	578	34	57.3	+13.1	81	3†	27	9	34	3.75	+0.41	1.17	5	T.	12	12	12	7	se.	St. Louis University
Salem	Dent.............	1,206	42	55.7	+ 9.3	85	29	25	9	45	3.21	−0.66	1.95	6	0	7	9	11	11	s.	E. E. Martin
Sikeston...............	Scott	318	39	57.8	+ 9.2	81	29	28	9	49	2.17	−2.29	0.56	15	0	14	11	14	6	sw.	Mrs. Lucy W. Humphreys
Union ....1½ mi. SE	Franklin	520	8	56.2	......	83	31	24	9†	29	2.01	−1.29	0.84	5–6	0	10	6	11	14	s.	Cornelius Sieges
Vichy ....2 mi. NW	Maries...........	1,125	10	55.3	......	83	31	22	9	11	1.83	......	0.75	5–6	T.	11	6	8	17	s.	Civil Aeronautics Adm.
Wappapello Dam......	Butler	475	7	57.8	......	82	29	27	9	7	2.76	......	0.72	5–6	0	8	10	10	11	sw.	U. S. Engineer Office
Weingarten	St. Genevieve ...	833	5	56.4	......	82	29	25	9	6	2.57	......	1.50	5–6	0	5	8	18	5	s.	William J. Miller
West Plains	Howell	1,005	9	54.0	+ 6.9	83	31	24	9†	9	4.37	+0.46	2.37	5–6	T.	11	4	9	18	sw.	U. S. Weather Bureau
Willow Springs 500 ft E	Howell	1,238	5	55.0	......	84	29	23	9	39	4.27	+0.03	2.20	5–6	T.	8	9	9	13	s.	Allen Frazee
Cairo, Ill.	Alexander, Ill...	314	74	59.1	+11.4	82	29	32	9	75	1.74	−2.01	0.39	15–16	0	15	5	6	20	s.	U. S. Weather Bureau
Division means	**and extremes**	.....	..	**56.6**	**+ 9.6**	**87**	**29**	**17**	**9**	..	**3.00**	**−1.05**	**3.10**	**5–6**	**0**	**9**	**9**	**10**	**12**	**s.**	
State means	**and extremes**	.....	..	**55.3**	**+11.1**	**92**	**31**	**12**	**9**	..	**2.82**	**−0.42**	**3.10**	**5–6**	**0.2**	**9**	**10**	**10**	**11**	**s.**	

The departures from normal temperature are computed from the averages of the entire period for stations having 10 or more years of record. Departures of precipitation for stations with 15 years or more of record are computed from a normal or "standard mean", adjusted to a uniform 35-year period: for stations of 10 to 14 years the means for the period of record are used. The normal may be found by adding the departures when minus (−) or subtracting when plus (+). Figures and letters following stations indicate distance in miles and direction of station from the city Post Office, unless otherwise indicated. T. Trace or 0.005 inch or less. [a], [b], [c], etc., number of days missing; for example, [b], indicates two days missing. Italics data interpolated. § Partly interpolated. † And other dates. ‡ Received too late to be included in means and summaries. [4] Best available used for stations not equipped with recorders. Post office address of: Altona is Adrian; Crane Mountain is Arcadia; East End is Goodland; Eastwood Lookout is Van Buren; Ellsinore Lookout is Mill Spring; Hailey is Cassville; High Lookout is Birch Tree; Macedonia Lookout is Doniphan; Perry is Center; Pilot Knob is Ironton; Wilderness Lookout is Lampe.

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month, with the ground in fine working condition. However, more moisture was needed at the close, in most of the southern half of the State, to keep the soil in good working condition and to sustain the rapid growth of wheat, pastures, and meadows. Alfalfa was about ready for the first cutting over much of the southern half of the State, as the month closed. The indications for an early spring, prevailing at the close of February, were further enhanced by the very favorable weather during March.—M. R. W.

TEMPERATURE

The monthly mean for the State, 99 stations reporting, was 55.3°, or 11.1° warmer than the 59-year March average. The highest monthly mean was 58.8° at Cape Girardeau and Caruthersville, and the lowest was 50.0° at Unionville. The highest reported was 92° at Anderson, on the 31st, and the lowest was 12° at Kirksville, on the 9th.

PRECIPITATION

The average for the State, 213 stations reporting, was 2.82 inches, or 0.42 inch less than the 59-year March average. The greatest monthly amount was 7.31 inches at Tarkio, and the least was 0.71 inch at Forsyth. The greatest amount reported in 24 hours was 3.10 inches at Birch Tree on the 5-6th. The average number of days with 0.01 inch, or more, was 9.

Snowfall averaged only 0.2 inch, or 2.7 inches less than the 56-year March average. The greatest monthly snowfall was 3.0 inches at Oregon and Trenton.

MISCELLANEOUS PHENOMENA

Auroras.—23d, 24th, 27th, 28th.

Floods.—In Grand River, at Chillicothe, on 7th, 17th to 19th, 25th, 27th; at Gallatin on 18th. In Mississippi River, in the reach from Keokuk to Grafton, on 6th and continued into April; at Cairo on 26th and continued into April. In Meramec River, at Pacific, on 8th.

Fogs.—Heavy, 5th, 6th, 14th, 15th, 19th, 20th, 24th, 25th, 26th, 27th.

Glaze.—8th, 10th.

Hail.—Light, on 4th at Conception, Philadelphia, Marshall; 16th at Auxvasse, Columbia, Conception, Hannibal, Kansas City University, Sikeston; 18th at Edina; 22d at Brunswick, Carthage, Kansas City Airport, Kansas City University, Kirksville, Joplin, Sweet Springs, Warrensburg, Warsaw; 23d at Fayette, Mexico, Shelbina; 26th at Conception. Moderate, on 22d at Cora, Sullivan County; no damage. Heavy, on 22d near Browning; 29th near Graham, Nodaway County. (See special hailstorm notes).

Sleet.—6th, 8th, 9th.

Windstorms.—12th, 15th, 16th, 29th. (See special windstorm notes).

HAILSTORMS

On the 22d, heavy hail fell 3 miles northeast of Browing, for about ten minutes, beginning at 7:15 p. m. At one time the ground was almost white with hailstones, which were about one inch in diameter. The storm moved from the southeast, over a narrow path about 10 miles long. The hail was not heavy over the entire length of the path. At Cora, about 5 miles north of Browning, the hail was reported as moderate. Damage to property was negligible; however a few trees were stripped of their small leaves and buds.

On the 29th, at about 5 p. m., heavy hail, accompanied by high wind and heavy rain, fell in the vicinity of Graham, Nodaway County, to a depth of about one inch. The storm came from the southwest. The width and length of the path, as well as the amount of damage, was not reported.

WINDSTORMS

On the 12th, high southwest wind estimated at 50 m. p. h., occurred near Browning, between 1 and 3 p. m., resulting in minor damage to small outbuildings, hay ricks and a few other objects of small importance.

On the 15th, high wind of 60 m. p. h., occurred between 2:30 and 3 p. m., at Joplin, resulting in thousands of dollars damage to buildings, plate glass windows, power and transmission lines and poles, signs, and trees. One person was slightly injured. The windstorm was reported as local, extending only a short distance out of the city limits to the north and east.

(Continued on page 22)

Daily Precipitation for March 1946

Stations	Drainage basins	Day of month																															Total
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Northern Division																																		
Albany	Grand	.10			.04	.65	.45		.15				.05	.12	.05	.01	.93	.77						.70		.01	.61				.34		4.98
Amity	do	.08			T.	1.27	.17	T.	.21	T.	T.		.04	.09	.02		1.53	.36		T				.74		T.	.27			T.	.02		4.80
Auxvasse	Missouri	.01			.03	.15	.44		.01	T.	.03		T.	T.	.62		.23	.10	.18	T.				.65						.18			2.63
Bethany	Grand	.07			T.	.64	.62	T.	.40				T.	.20	.20		.87	.81						.36			.35			T.	.27		4.79
Bowling Green[2]	Mississippi		.04			.20	.50			.02					.48	.01			.41	.01				.31							.26		2.24
Brookfield[2]	Grand					.58	.18		.19	.12					.16	.06	.06	.43	.30					.62							.38		3.08
Browning 3 mi. NE	do	.08			T.	.88	T.		.70	.01	.02		.02	.05	.17	T.	.58	.28	T.		T.			1.41			.06			.19	.39		4.84
Brunswick[2]	do		.06		.17	.20	.12		.11	.04	.03			.06	.07	.09	.27	.38	.03					1.12							.04		2.79
Canton, Lock No. 20[2]	Mississippi		.08			.18	.47		.06	.17	.07			.01		.06		.42	.16	.03			.01	.25	.11						T.		2.08
Centralia[2]	do		.02		*	.12	.26								.39		.18	.28	.37	.04				1.35							.36		3.37
Chillicothe[2] (A)	Grand		.01		T.	.68	.24		.05	.13				.07	.02	.08	.28	1.04	.05					.52	T.						.57		3.74
Chillicothe[2] (B)	do		.05			.42	.25		.03	.05				.02	.02	.12	.18	1.20	.10					.53	T.						.52		3.49
Clifton Hill	Chariton				*.15*	*.02*	*.20*		.10	*T.*			.25	.02	.22		.25	.30	.03					.95							*.17*		§2.66
Columbia[1, 5]	Missouri	.01			.08	.29	T.		.03	.01			.01	T.	.20		.26	.57	.04	T.			.13	.73						.05			2.41
Columbia[5] 9 mi. WNW	do	.01			.01	.22	.45		T.		T.		T.	T.	.19	T.	.34	.33	.05	T.				.52						T.	.03		2.15
Conception	do	.60			T.	.57	.20	.50	.34				.07		.07		1.39	.64						.94			.80			.35	.04		6.51
Edgerton	do	.10				*	.91		.20				.05	.12			.85	.27						.85									3.35
Edina[2]	Mississippi		T.			.33	.25		.15	.15	.06			.12	.22	.02		1.03	.37	.05				1.50	.24						.17		4.66
Elsberry S. C. S.[2]	do		.09		T.	.12	.58		.04	.02	.04				.67		.10	T.	.89	T.				.20			T.				.36		3.11
Fayette	Missouri	.03			.10	.05	.12		.02	T.			T.		.11	T.	.24	.27	T.					2.15						.03			3.12
Fulton[2]	do					.05	.62		T.		.02				.40	.12	.18	.12	.21	.03				.71							.04		2.50
Gallatin[2]	Grand					.34	.78		.12	.12				.03	.02	T.	.50	1.42	.05					.60	.12						.22		4.32
Grant City	do	.12			T.	.83	.24	T.	.37				.07	.20	.12	.03	.69	.85	T.					.51			.76			.02	.37		4.68
Hannibal[1] (A)	Mississippi	.05			.08	.02	.63		.14	.02	T.				.50		.61	.73	.15	.01			T.	.18						.35	.01		3.48
Hannibal[2] (B)	do		.04			.16	.78			.20	.06				.33	.24	.10	.70	.74	.12			T.	.16							.17		3.80
Hermann[2]	Missouri		.05			.16	.40								.45		.02	T.	.30					.72							.27		2.37
Kahoka[2]	Mississippi		T.			.40	.70		*	*	.20			.38	.25	.20	.08	.04	.72	.03				.60	.15		.25						4.00
Kansas City Airport[1, 5]	Missouri	.08			.03	.92	T.	.07	.07	.05			T.		T.	.03	.48	.14	T.				.49	.05		T.	.07						2.48
Kansas City University	do	.08	T.		T.	.86	.13	T.	.14	.05			T.				.51	.14	T.					.58			.07						2.56
Kidder[2]	Grand		.07			.10	.99		.06	.18				.32	T.		.58	.68	.01					.55	.04						.06		3.64
King City	Missouri	.17			.09	.76	.29	.05	.49					.09	.03		.84	.65						1.04		T.	.62						5.12
Kirksville	Mississippi	.05			.04	.53	T.		.42	*T.*			.02	.10	.15	.12	.79	.36	.18	T.				1.37							.39		4.52
Knoxville[3]	Missouri	.07			.25	.40		T.	.02	T.			.04		.04	T.	.82	.16	T.				.85	.32		.01				T.			2.98
LaBelle[2]	Mississippi		T.		T.	.65				.36				.16	.28			.40	.80	T.				.90	.13						T.		3.68
Lawson	Missouri	.07				.57	.08	T.	.07	T.			T.		T.		.81	.18						.70		T.				T.			2.48
Linneus	Grand	T.			T.	.65	.30		.28				.13		.10		.20	*	1.22					.55							.50		3.93
Louisiana (A)	Mississippi	.08			.05	.21	.52		.10		.02				.62		.15	.14	.30					.20							.24		2.63
Louisiana[2] (B)	do		.04			.22	.51			.08	.02			T.	.50	.19	.02	.13	.24	.05			T.	.12	.04						.32		2.48
Lucerne[2]	Grand				.09	.53	.50			.50				.20			.20	.73						1.40	.34						.40		4.89
Macon[2]	Chariton		.04		.05	.38	.25		.07	.07	T.			.07	.17	.03		.40	.37	.02				1.02	.10						.46		3.50
Madison[2]	Mississippi				*	.15	.12			.07					.40	.05		.55	.27	.04				1.25							.15		3.05
Martinsburg[2]	Missouri		.03			.26	.87			.03	.05			T.	.59	.02	T.	.11	.54	.04				.61							.22	.03	3.40
Maryville	do	.04			.05	.67	.28	.08	1.07				.08	.03	.04		1.33	.59						.93			.97			.65	T.		6.81
Memphis[2]	Mississippi		.03			.45	.33		.19	.23	.05			.16	.17	.10		.70	T.					.82	.36		.03				.06		3.68
Mexico[2]	do					.30	.42			*T.*					.55	.03	.04	.04	.51	.06	T.			.80							.14		2.89
Milan[2]	Grand					.74	.31		.47	.25	T.			.16	.11	.21		.60						1.01	.16		.05				.42		4.49
Moberly[2] 3½ mi. NE	Mississippi				.16	T.	.20		.02	.03	T.			T.	.31	.01	.46	*	.45	T.				1.11							.14		2.89
Monroe City	do	.06			T.	.08	.57		.09		.02		T.		.56		.06	T.	.48					.73							.23		2.88
New Florence[3, 5] 1 mi SE	Missouri	.03			.05	.27	.31		T.	.03	T.		T.	T.	.61		T.	.35	.03	T.	T.			.35						.07	T.		2.10
Oregon	do	.08				.81	.04	.03	.87	T.	*T.*		.05		.03	.02	1.07	.42						1.46		.02	.62						5.52
Palmyra	Mississippi	.04			.05	.04	.13		.11						.38		.21	*	.78												.60		2.34
Paris[2]	do		.03		.07	.06	.38		T.	.03					*	.33		.22	.28					.95							.07		2.42
Perry 1 mile E	do				.03	.15	.35		.05						.45		.09	.15	.60					.50						.23			2.60
Philadelphia	do	.04			T.	.67			.12					T.	*	.30	.85		.30	*T.*				.80							.39		3.47
St. Charles[2] (A)	Missouri		.31			.08	1.09		.05						.42	.03	.02		.78	.02				.02							.23		3.05
St. Charles[2] (B)	do		.08			.12	1.12	T.	.14	T.	T.				.40	.02	.03	.01	.78	.08				.05					T.		.32		3.15
St. Joseph[1, 5]	do	.09			.02	1.18		.10	.24				.05	.01	.01	.03	.93	.26	T.				.70	.52		.64	T.			.02			4.80
Saverton, Lock No. 22[2]	Mississippi		.02			.11	.49			.16	.01			T.	.40	.12	.09	.80	.32	.06											.13		2.71
Shelbina	do	.02			.12				.28		T.				.33		.37	.17	.02	T.				1.19			.05				.28		2.83
Shelbyville[2]	do					.37				.17						.34		.27	.46	.12				1.24							.27		3.24
Steffenville	do	.06			.11	.10	.64		.16		.04			T.	.28	.01	.73	.05	.28					1.38							.16		4.00
Tarkio[3]	Missouri	.02			.06	.89		.96	.36	T.			.11		T.	T.	1.41	.28	T.				.02	1.07		1.46	T.			.67			7.31
Trenton[2]	Grand		.06		.05	.55	.50		.14	.22	T.			.06	.09	.08	.18	.65	.06					.32	.06						.62		3.64
Troy[2]	Mississippi		.04			.05	.55		.04						.75	.05			.80	.05				.12							.15		2.60
Unionville[2]	Chariton				.08	.45	.50	T.	.48	.20				.12	.15	.31		.62						1.60	.28		T.				.20		4.99
Vandalia	Mississippi	.05				.19	.70		T.						.42			T.	.60					.50						T.			2.46
Warrenton	do	.05	T.		.14	T.	.62		T.	T.	T.			*T.*	.63			.11	.36	T.				.17							.41		2.49
Keokuk, Iowa[1]	do	.08			.05	.73	.11		.13	.13	.02		.03		.34		.67	.02	.05	T.			T.	.36			.12						2.84
Southwestern Division																																		
Altona[2]	Osage						.22		.04								.46	.50						.04									1.26
Anderson[2] 1½ mi. SW	Neosho					T.	.35		*T.*					.12	.35		.54	.33	.07														1.76
Appleton City	Osage					.02	.05		.03				.03				.55	1.03											.05				1.76
Ava Ranger Station[2]	White						.82								.41			.42	.07	.39				.50									2.61
Bolivar	Osage	T.			T.		.18		T.				T.	.04	.13	T.	.46	.37	.14					.05									1.37
Boonville[2] (A)	Missouri				T.	.20	.30			.50					.07		.18	.43	.02	.01				.90						.09			2.70
Boonville[2] (B)	do		T.		T.	.20	.28								.09		.32	.35		T.				.85							.01		2.10
Bradleyville[2]	White						.60							.03	.30		.35	.10	.26	.04				.18									1.86
Buffalo[2]	Osage						.21								.10		.10	.19	.20					.16									0.96
Butler[2]	do		T.			.02	.22		.08						.02		.48	.63	.06					.06									1.57
Caplinger Mills[2]	do				T.		.13		T.					.03	.12		.31	.26	.17	T.				.03					T.				1.05
Carthage	Neosho					.10	.19		.05					.19	.24	.09	.23	.32	.02					.27									1.70
Cassville[2]	White								T.					.04	.45		.38	.20	.14														1.21
Clinton[3]	Osage	T.			T.	.36		T.	.02				T.				.87	.06	T.				.28										1.59
Concordia	Missouri	.04			.03	.04			.09				T.		.08	T.	.83	.30						.71									2.12
Crocker	Osage						.44		*T.*							.13	.20	*	.17					.06				T.					1.00
Eldon	Missouri				T.		.39		T				T.		.14	T	.38	.31	.03	.07	T.			.37						T.			1.69
Eldorado Springs	Osage	T.			T.	T.			.06				.04	T.	.08	T.	.78	.71										.39	.10				2.16
Elijah[2]	White						2.56							.12	.63		.75		.15					.20									4.41
Forsyth[2]	do						.03							.01	.41			.16	.10					T.									0.71
Fort Leonard Wood[2]	Gasconade						.70								.25		.25																1.20
Galena[2]	White						.45						.04	.35			.80	.01	.16					.06									1.87
Granby[2]	do																																....
Hailey	do				T.		.56							.44	.13	.81	.41	*	.80														3.15
Harrisonville[2]	Osage		.03			.08	.38										.37	.18	.02	T.				1.24									2.30
Jefferson City (A)	Missouri	T.			.01		.50		T.				T.		.29	T.	.09	.43	.01					.50									1.83
Jefferson City[2] (B)	do		T.			.03	.52	T.		T.	T.			T.	.25	.05	.20	.18	.28	.01				.46									1.98
Joplin[1]	Neosho				.02	.45		.16	T.				.05	.27				.76	.06				.16										1.93
Lakeside[2, 5]	Osage		T.			.05	.37		T.	T.	T.			T.	.18	T.	.06	.22	.03	.05				.43							.01	T.	1.40

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Daily Precipitation for March 1946—Continued from preceding page

Stations	Drainage-basins	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Total
Southwestern Division—	*Concluded*																																
Lamar[2]	Neosho						.32		.05						.22		.30	.52	.20					.15									1.76
Lebanon	Osage	T.			.03	T.	.40		T.				T.	T.	.12	T.	.19	.35	.08	.02				.12									1.31
Lexington[2]	Missouri		T.			.42	.25							T.	.45		.38	*	.10					.88									2.48
Lockwood	Osage				T.	T.	.06		.02				.10	.08	.12	T	.40	.42						.18									1.38
Mansfield[2]	White																																....
Marshall	Missouri	T.			.11	T.	.06		.03	T.			T.	*T.*	T.		.82	.20	.10					.80									2.12
Marshfield[2]	White						.46								.19	T.	.26	.13	.13	.01				.32									1.50
Mountain Grove[2]	Gasconade						1.30								.52		.08	.06	.12					.46									2.54
Mount Vernon[2]	Neosho					T.	.92	T.						.15	.16		.46	.26	T.	T.	T.			.04									1.99
Neosho	do	T.			.02	.07			.22				.18	.19	.27	.20	.38	.35	.06					.11									2.05
Nevada	Osage				T.	T.	.11		.04				T.	T.	.07	T.	.42	1.19	.02					.03					.13				2.01
Osceola[2]	do						.27		.01			T.		.01	T.		.35	.62	T.	.01				.01					.05				1.33
Ozark[2]	White						.41								.34		.06		.32			.08											1.21
Ozark Beach[2]	do													.05	.36		.20		.15					.44									1.20
Pierce City[2]	Neosho					T.	.12		T.					.04	.34		.37	.22	.30	T.				.08									1.47
Pineview Lookout[2]	White																																....
Pleasant Hill[2]	Osage		.01			.17	.39		.07	T.	.06			.03			.60	.18	.02					.92			T.						2.45
Roby	Gasconade	T.			T.	.06	.95		T.					.12	.17		.29	.17	T.	.04				.47									2.27
St. Thomas[2]. 2¼ mi SW	Osage		*T.*			*.04*	*.40*			*T.*					.20		T.	.31	*.02*	*.04*				.62							.17		§1.80
Saunders Lookout[2]	White						.52							T.	.20	.04	.15	.08	.05	T.				.02									1.06
Sedalia	Missouri	.03			.02	*	.39		.17				T.		.05		.61	.43						1.65									3.35
Seligman[2]	Neosho					.03	.27								1.38		.06	.18															1.92
Seymour[2]....3½ mi. NE	White		T.			T.	.52			T.				T.	.27	.12	.30	.33	.32	T.	T.			T.			T.						1.86
Shell Knob[2]...3 mi. SE	do						.52							.04	.29	T.	.53		.10					.04									1.52
Siloam Sprgs Lookout[2]	do						1.90								.71	.09	.82		.14					.12									3.78
Springfield[1,5]. 4 mi. NW	do	T.			T.	.16		T.	T.				T.	.33	T.	T.	.24	.30	T.	T.			T.	.01									1.04
Stover[2]	Missouri				T.		.24			*T.*					*.11*		.30	*	.35					.44			.03						§1.47
Sugar Camp Lookout[2]	White						.26		.21					.03	.72		.22		.28	.03													1.75
Sweet Springs	Missouri	.03			.04	.02	.03		.12				T.			.02	.87	.39						1.05									2.57
Tecumseh[2]...¼ mi. W	White																																....
Topaz[2]	do						1.60								.62		.46	.06	.30					.50									3.54
Vanzant[2]....3¾ mi. SE	do						2.03								.82	.06	.08	.09	.44					.56									4.08
Warrensburg	Missouri	T.			T.	T.	T.		.04		T.		T.		T.	T.	.55	.31	T.					1.17									2.07
Warsaw[2]........(A)	Osage				T.	T.	.53		T.				T.	T.	T.		.22	.39		.01				.45									1.60
Warsaw[2]........(B)	do				T.		.45			T.							.70	.17						.35									1.67
Wasola[2]	White						.09	.12						.10	.44		.42	.05	.19					.24									1.65
Waverly[2]	Missouri		T.			.15	.08		T.	T.				T.		.07	.56	.64	.12	T.				1.03									2.65
Wilderness Lookout[2]	White						.55							T.	.48		.70	.01	.09					.07									1.90
Southeastern Division																																	
Advance[3].....¼ mile W	St. Francis	.03				T.	.39		T.					.22	.31	.27	.02		.02				.06	.20	T.	.14	.02		.03				1.71
Alton(1)....10 miles SE	Black						2.12								.97		.17		.05					.08	.10	.26							3.75
Annapolis[1].....7 mi. W	do																																....
Arcadia[2]	St. Francis						2.00	T.							.52		.06		.05					.46							.07		3.16
Belleview[2]	Meramec		T.			.04	2.07				T.				.55	.01	T.		.12	.01				.46			T.	T.		.05			3.31
Bernie[2]	St. Francis														.50	.07	.76							.32		.25	.25		T.	.36			2.51
Birch Tree[2]...½ mile E	Black					T.	3.10							*	.80	.05	.26		.02	T.	T			.71		T.	.02						4.96
Black......9 miles NW	do	.03				.06	2.05							.14	.56		.15		.10		.03			.48							.03		3.63
Bloomfield[2]	St. Francis		.06				.22	.09							.46	.02	.53		.09	.04				.26		.13	.28			.03			2.21
Bunker[2]...4 miles NW	Black						1.95								.69	.03	.56		.16					.52		.05							3.96
Campbell	St. Francis						.41							T.	.50		.85		.03					.36	T.	.55	.10		.37				3.17
Cape Girardeau..(A)	Mississippi		.05				.27							.03	.24		.23	.01	.09	T				.10		.03	.49			T.	.21		1.75
Cape Girardeau[2].(B)	do		.02				.20	.03						T.	.20	T.	.16	.02	.01	T.				.09		.03	.52				.04		1.32
Caruthersville..(A)	do						.99								.36		1.30	T.	.05					.27		.68	.66		.45				4.76
Caruthersville[2]..(B)	do	T.					.46	.50	T.						.80	.08	1.33	T.	.07	.03				.30	.04	.16	1.18		.18	.27			5.40
Centerville(1)[2]	Black				T.	T.	2.10							.04	.60	.02	.18		.05	T.	T.			.85			.03		.12				3.99
Centerville(2)[2]	do		T.			.01	2.23			T.	T				.58	.03	.19		.03	T.	T.			.72			.02	.05	.01	T.	T		3.87
Cook Station[2]	Meramec					.10	1.52								.56		.06		.08	.05				.56				.08					3.01
Crane Mountain[2]	St. Francis					.01	2.00							.01	.43		.17	T.	.05					.42							T.		3.09
Crystal City	Mississippi		.09					1.60		.02				.04	.26		.03	.07	.25	.01				.07			*T.*				.22		2.66
Cuba	Meramec	.04		.02		*	1.30			.03				.07	.60	.04			.11	.04				.30							.06		2.61
Deering[2]	St. Francis						.54	.15							.40		.90	T.	T.					.24		.10	1.08		.05	.33			3.79
De Soto[2]	Mississippi		.05			.02	1.68				.05				.26				.45	.04				.09							.05		2.69
Dexter[2]	St. Francis		.08				.27	.18						.03	.55	.14	.76	.06		.12				.35		.33	.72			.26			3.85
Doniphan(1)	Black	.01					.71							T.	.79		.72	T.	.02					.82		.51	.04		.07				3.69
Doniphan(2)[2]	do						1.08							.20	.54		.68		.08					.95			.60			.06			4.19
East End[2]	Meramec					.10	1.95				.05			T.	.60	.04		.08	.14	.02				.40			.02				.03		3.43
Eastwood Lookout[2]	Black						1.53								.78		.34		.05					.17	.01		.06						2.94
Ellington[2]	do						1.92	T.						T.	.70	.03	.34							.74			.01						3.74
Ellsinore Lookout[2]	do		.04				1.32							.04	.55	.07	.42		.18					.46		.06	.23	.16					3.53
Farmington[2]	St. Francis					T.	2.10	.05			T.				.36	T.	.02		.25	.06				.40							.28		3.52
Fisk[2]	do		.02				.43	T.						T.	.39		.70		T.					.21		.06	.23		T.	.15			2.19
Fredericktown[2]	do						.86	T.							.45		T.		.13	T.				.33				.22			T.		1.99
Gerald	Meramec		*.06*			*.04*	*.82*		.04	.02	.05				.59		.02	.14	.09	.02				.37							.20		§2.46
Greenville(1)	St. Francis						1.03							.47	.42			.02							T.	T.			T.				1.94
Greenville[2](2)	do		T.				.92							.11	.49	.03	.45		.02	.01				.14		.07	.03	.07		.01			2.35
High Lookout[2]	Black						2.05							.19	.77	.11	.22		.06					.38									3.78
Jackson	Mississippi		.03				.48							.11	.22		.27	.08	.01	.02				.11		.03	.04	T.		T.	.24		1.64
Jefferson Barracks[2]	Mississippi		.04			.05	1.62			.03					.18	.03			.76	T.				.05				T.			.30		3.06
Jerome[2]	Gasconade		*.02*				1.39			*T.*					*		.46	.18						.62									§2.67
Koshkonong[2]	Black						2.33							.10	.85	.03	.51		.10					.17			.05			T.			4.14
Leeper[2]	do																																....
Licking(2)[2]	Gasconade						1.66								.42		.13		.18	.02				.66									3.07
Macedonia Lookout[2]	Black						1.43							.10	.61	.02	.50		.06					.27		.11	.32			.05			3.47
Marble Hill	Mississippi						.11							T.	.21		.60		.13								T.						1.05
Meramec Park[2]	Meramec		T.		T.	.02	1.21		.01	T.	.04			T.	.48	.04	T.		.17	.03				.19							.17		2.36
Morehouse	Mississippi		T.				.35								.08		.47		.49					.20	T.	.40	.17		.03				2.19
Moselle[2]	Meramec		.01			.03	.96		.02	T.	T.				.45		T.		.17	.04				.27							.06		2.01
New Madrid[2]	Mississippi		.07				.27	.25							.26	.22	.82	.10	T.	T.				.28		.05	.52		T.	.40			3.24
Oates Tower[2]	Black		T.		T.	.03	1.46		T.	T.	T.			T.	.36	T.	.13		.08		T.			.32		T.	T.	.19		T.	T.		2.57
Owensville[2]	Gasconade		.10			.06	.80				.02				.37		.05	.05	.16	.08				.30									1.99
Pacific[2]	Meramec		*.02*			*.03*	1.10		T.		T.				.40	*.02*			.39	*.04*				*.19*							*.21*		§2.40
Parma[2]	St. Francis						.35	.09							.38	T.	.78	.05	.03	.06				.21		.29	.33		T.	.48			3.05
Perryville	Mississippi					*	.62							T.	.19	T.				.15				.22							.29		1.47
Pilot Knob[2]...2 mi. NE	St. Francis			T.			1.72		T.		T.		.05		.46				.03		.01		.03	.36		.01		.13					2.80
Poplar Bluff[2]....(A)	Black						.61								.65	.06	.63		.07				T.	.32	T.	.11	.23			.11			2.79
Poplar Bluff[2]....(B)	do		.04			T.	.67	T.						.01	.56	.06	.60		.06					.32		.11	.23			.11			2.77
Puxico[2]	St. Francis						.43	.15							.38	.09	.59	T.	.02					.33		.07	.10			.02			2.18
Qulin[2]	do		T.				.44	.08	T.					T.	.74	.13	.94	T.	.02	T.				.43		.36	.25			.28			3.67
Reynolds[2]	Black						2.45								.66	.02	.25		.05					.72									4.15
Richwoods[2]	Meramec					*	1.75		.05			.08			.45	.02			.12	.05				.42							.10		3.04
Rolla[2]	do		T.		T.		.95			T.					.22	T.	T.	.12	.10	.05	T			.70							T.		2.14
Round Spring[2]	Black						2.11								.84		.20							.53									3.68

Continued on next page

Daily Precipitation for March 1946—Continued from preceding page

Stations	Drainage-basins	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Total
Southeastern Division —	*Concluded*																																
St. Louis:																																	
City Office[1], [5]	Mississippi	.03	....	....	.03	1.05	.63	....	T.	.02	T.	....	T.	.01	.26	....	.02	.27	.36	.01	....	....	....	.09	....	....	T.	....	....	.30	....	....	3.08
Airport[3], [5]	Missouri	.06	....	....	.03	.88	.36	....	.01	T.	T.	....	T.	T.	.34	....	T.	.72	.23	.01	....	....	....	.05	....	T.	T.	....	....	.53	....	....	3.22
St. Louis Univ.[1], [5]	Mississippi	.06	....	....	.06	1.17	.79	....	T.	.02	T.	....	....	.02	.39	....	.02	.39	.40	T.	....	....	....	.11	....	....	....	....	....	.32	....	....	3.75
Washington Univ.[2]	....do	....	.05	....	....	.05	1.61	....	....	....	....	....	....	....	.40	.01	....	....	.68	....	....	....	....	.11	....	....	....	....	....	....	.18	....	3.09
Salem	Meramec	T.	....	....	T.	T.	1.95	....	....	....	....	....	....	.10	.30	....	.20	.10	.10	....	T.	....	....	.46	....	....	....	....	....	....	T.	....	3.21
Sikeston[2]	Mississippi	....	.03	....	....	....	.32	.02	....	....	....	....	....	.01	.31	.02	.56	.18	.01	.02	....	....	....	.13	....	.27	.24	....	....	.05	....	....	2.17
Steelville[2] ...2½ mi. NE	Meramec	....	T.	....	....	T.	1.35	....	....	T.	....	....	....	....	.61	T.	.09	....	.13	.07	....	....	....	.39	....	....	....	....	....	....	T.	....	2.64
Summersville[2]	Black	....	....	....	T.	....	2.29	....	....	....	....	....	....	T.	.64	T.	T.	.03	T.	T.	....	....	....	.50	....	....	....	....	....	....	....	....	3.46
Union[2] ....1½ mi. SE	Meramec	....	.02	....	....	.01	.84	....	.02	T.	....	....	....	....	.57	....	.09	....	.17	.02	....	....	....	.16	....	....	....	....	....	....	.11	....	2.01
Valley Park[2]	....do	....	.04	....	....	.05	1.73	....	....	....	....	....	....	....	.50	T.	....	.09	.35	.02	....	....	....	.09	....	....	....	T.	....	....	.36	....	3.23
Van Buren[2]	Black	....	....	....	....	....	1.87	....	....	....	....	....	....	.29	.07	.41	....	.33	....	....	....	....	....	.23	....	T:	....	....	....	....	....	....	3.20
Vichy[3] .....2 miles NW	Meramec	.01	....	....	T.	.59	.16	....	T.	.01	T.	....	T.	.12	.10	T.	.01	.21	.08	.02	T.	....	T.	.52	....	....	....	T.	....	T.	....	....	1.83
Wappapello Dam[2]	St. Francis	....	T.	....	....	....	.72	....	....	....	....	....	....	T.	.65	.05	.58	....	.01	....	....	....	....	.42	....	.13	.20	....	T.	T	....	....	2.76
Webster Groves	Mississippi	T.	.05	....	.04	.01	1.79	....	....	T.	.01	....	....	....	.51	....	.08	.25	.51	....	....	....	....	.11	....	....	T.	....	....	....	.24	....	3.60
Weingarten	....do	....	....	....	....	....	1.50	....	....	....	....	....	....	....	.25	....	....	....	.27	....	....	....	....	.37	....	....	....	....	....	....	.18	....	2.57
West Plains[3]	Black	T	....	....	T.	1.66	.71	T.	T.	....	....	....	.01	.82	.09	.76	....	.14	....	.01	....	....	.04	.10	T.	.03	....	....	T.	....	....	....	4.37
Williamsville[2]	....do	....	....	....	....	....	1.34	....	....	....	....	....	....	.03	.58	.02	.61	....	....	....	....	....	....	.24	....	....	.18	....	....	....	....	....	3.00
Willow Springs[2] 500 ft E	White	....	....	....	....	....	2.20	....	....	T.	....	....	....	T.	.74	.03	.61	.12	.22	....	....	....	....	.27	....	.08	....	....	....	....	....	....	4.27
Winona Ranger Sta.[2]	Black	....	....	....	....	....	2.23	....	....	....	....	....	....	.20	*	.92	.48	....	.03	T.	T.	....	....	.70	....	T	T.	.09	....	....	....	....	4.65
Zalma[2]	Mississippi	....	....	....	....	....	.54	.04	....	....	....	....	....	....	.48	.04	.40	.07	.04	.02	....	....	....	.19	....	.04	.06	.07	....	T.	....	....	1.99
Cairo, Ill.[1], [5]	....do	.06	....	....	....	....	.29	....	T.	....	....	....	....	.13	.25	.01	.38	.02	.06	T.	....	....	.01	.05	.03	.30	.11	....	.01	T.	.03	....	1.74
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....

Except as otherwise indicated, amounts are for 24 hours ending late in afternoon. [1] Midnight to midnight. [2] Measured in the morning; for the preceding 24 hours. [3] Data for 24 hours ending 12:30 A. M. (C. S. T.) of following day. [5] Recording gage. T. Trace or 0.005 inch or less. * Included in next measurement. // Windshield on gage. Italics data interpolated. § Partly interpolated. (A) Record from cooperative station gage. (B) Record from river station gage. ‡ Received too late to be included in means and extremes.

Daily Evaporation (inches), Mean Temperature (F°), and Wind Movement (miles) for March 1946
(See precipitation data in daily precipitation table)

Station	Data	Day of month																															Monthly
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Columbia (Univ. of Mo. Hort. Exp. Sta. 9 mi. WNW.)	Evaporation	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.....
	Mean temperature	50	50	58	60	62	56	46	46	36	38	46	57	59	58	58	58	52	48	46	51	56	64	60	55	60	62	60	64	66	64	64	55.2
	Wind movement	105	132	124	110	116	230	84	188	112	154	128	292	158	42	64	144	83	165	125	25	80	79	132	48	66	58	53	51	29	91	91	3,359
Lakeside (Osage Dam)	Evaporation	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.....
	Mean temperature	48	46	54	52	60	52	48	37	40	40	47	52	60	60	58	57	54	48	48	52	54	58	58	57	58	65	64	66	66	64	66	54.5
	Wind movement	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....
St. Louis (Washington University)	Evaporation	....	.035	.106	.249	.012	.132	.152	.114	*	.094	.091	.176	.183	.052	.000	.098	.148	.024	.009	.027	.069	.149	.102	.134	.146	.070	.126	.089	.149	.121	.152	3.109
	Mean temperature	46	51	60	58	64	60	48	48	37	40	46	52	60	60	60	63	57	50	47	54	59	65	62	59	58	68	66	68	68	61	62	56.6
	Wind movement	85	60	27	90	51	86	68	45	73	62	42	89	88	28	35	56	55	48	78	70	32	39	37	36	48	43	39	26	44	40	69	1,689

Observations taken at 8:00 a. m. except at 5:00 p. m. at Columbia. For Lakeside and St. Louis (Washington University) descriptions see April 1932 and August 1938 reports, respectively. * Included in next measurement.

(Continued from page 19)

During the night of the 15-16th high winds in Bollinger and Cape Girardeau counties uprooted trees in some places, unroofed some buildings and blew down other smaller and lighter ones. Damage in the vicinity of Marble Hill was estimated at $6,000, with minor damage over a considerable area in Cape Girardeau County. The storm began before midnight of the 15th and lasted for two hours, moving from the SSE. No one was injured and there was no crop damage.

On the 29th, about 5 p. m., high wind, accompanied by heavy rain and hail, struck the Maitland-Graham area of Oregon and Nodaway counties, causing serious damage to barns, small outbuildings, windmills, and trees. The storm came from the southwest; the length and width of the path are unknown. The amount of damage was not reported.

ERRATA

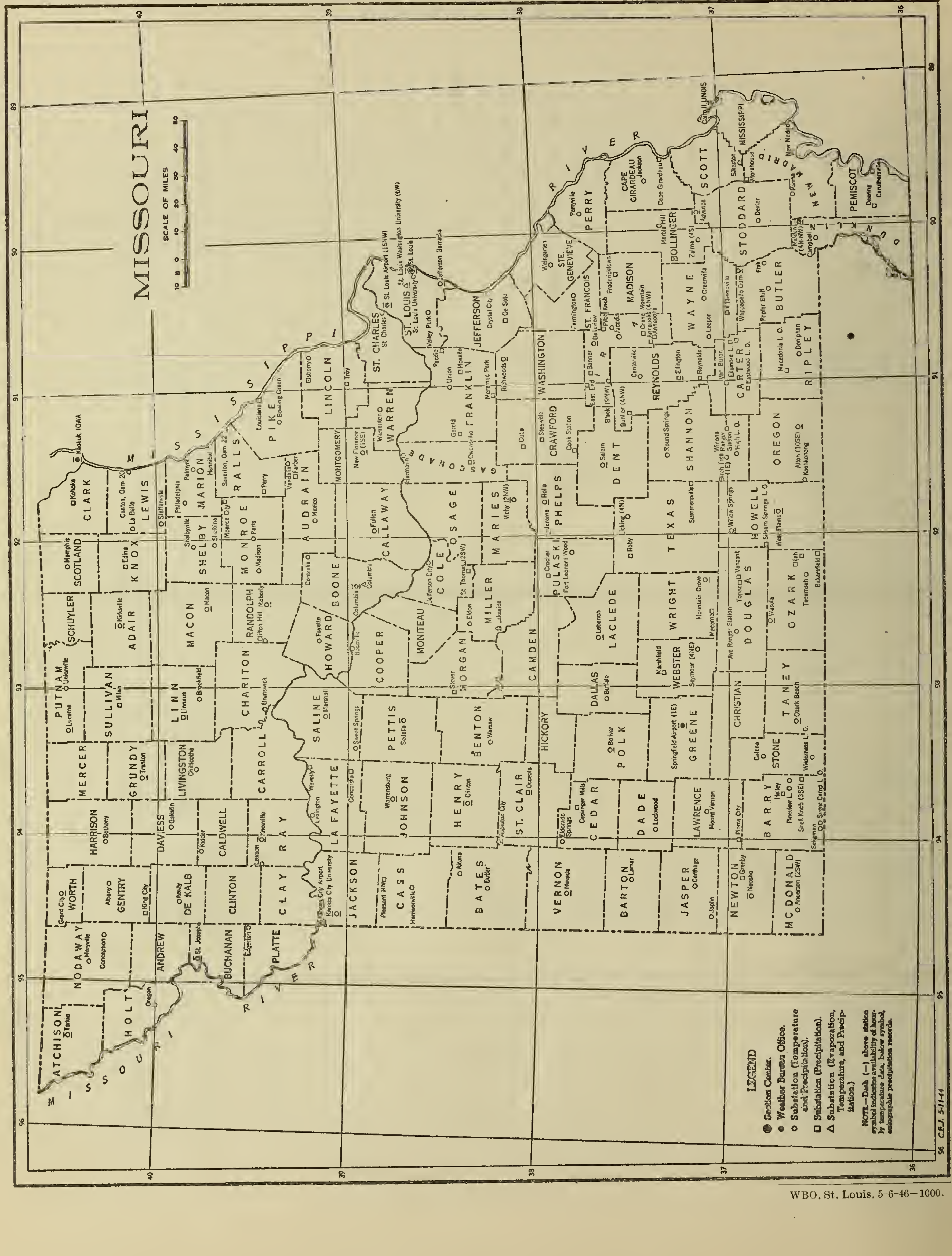
September 1945, page 66: Mean temperature, departure, and date of maximum temperature at Lexington should be 69.6, + 0.8, and 4th, respectively. Date of minimum temperature at Mount Vernon should be 15†. Mean temperature and departure at Nevada should be 71.8 and + 2.3, respectively.

January 1946, page 1: Total degree days at Springfield should be 942. Page 2: Mean temperature and departure at Springfield should be 34.6 and + 2.3, respectively. Page 7: Maximum and minimum temperatures on 7th at Springfield should be 42 and 30, respectively; mean maximum should be 43.1.

Daily Temperatures for March 1946

Stations		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Northern Division																																	
Brunswick /	Maximum...	49	68	77	68	69	50	60	47	50	51	70	64	70	60	74	65	60	47	56	59	69	76	61	74	74	70	75	80	81	70	85	65.5
	Minimum ...	34	31	30	41	50	46	33	34	22	24	25	34	50	52	49	49	48	45	45	45	45	46	51	38	39	49	48	49	52	55	47	42.1
Chillicothe /	Maximum...	49	66	76	56	61	47	58	41	48	52	70	66	71	58	76	63	58	46	61	55	70	78	58	75	74	68	75	79	82	69	85	64.2
	Minimum ...	39	35	35	51	47	38	33	23	21	23	24	38	49	53	46	48	47	42	43	45	44	48	50	38	44	51	44	49	54	53	47	42.0
Columbia	Maximum...	56	67	80	65	71	59	62	53	53	50	67	68	68	62	75	69	56	48	51	61	70	75	63	74	77	75	77	79	83	70	85	66.7
	Minimum ...	34	34	45	55	55	38	36	27	23	31	35	50	54	52	52	50	48	44	44	45	47	54	44	40	49	55	52	54	52	54	48	45.2
Fayette	Maximum...	61	68	78	68	70	72	60	58	54	50	68	67	68	63	73	69	57	54	51	58	68	75	68	74	75	71	73	78	80	69	83	67.1
	Minimum ...	37	32	37	48	52	50	31	32	19	25	29	46	48	53	46	49	47	44	45	44	44	51	49	36	46	49	47	53	51	54	46	43.2
Grant City	Maximum...	58	65	75	58	44	53	52	49	42	48	66	63	67	64	70	64	53	49	60	52	66	72	65	70	67	67	72	76	76	66	82	62.3
	Minimum ...	36	34	48	36	36	35	32	25	18	20	33	46	51	52	48	48	45	43	40	44	45	50	43	42	48	46	44	48	56	50	46	41.5
Hannibal	Maximum...	54	67	78	65	72	63	58	51	45	45	62	69	70	61	70	67	59	51	49	63	71	75	62	70	70	70	74	76	79	65	76	64.7
	Minimum ...	34	33	35	48	51	39	33	23	19	24	28	46	51	52	48	49	47	42	42	40	48	55	46	41	45	56	49	52	55	49	43	42.7
Kansas City Airport	Maximum...	53	71	75	64	61	52	62	53	56	53	72	58	70	65	76	60	53	45	60	56	68	76	63	74	75	68	73	76	83	73	89	65.6
	Minimum ...	40	38	51	52	46	38	38	30	30	26	41	54	54	54	48	47	45	41	44	44	49	49	49	42	56	54	48	49	53	54	52	45.7
Kirksville	Maximum...	55	65	76	67	66	61	55	49	37	47	65	66	69	62	70	64	63	55	54	61	68	75	68	70	71	68	73	77	78	65	80	64.5
	Minimum ...	35	34	40	45	43	39	32	28	12	21	29	46	50	52	48	49	46	43	43	43	45	51	44	35	45	50	45	49	50	46	42	41.3
Lawson	Maximum...	50	50	75	65	60	60	62	56	51	52	69	60	69	60	74	61	50	44	59	56	66	76	61	64	74	74	74	80	80	71	86	64.2
	Minimum ...	42	34	40	51	46	35	32	28	21	23	33	48	46	53	47	46	42	40	44	45	47	50	48	40	52	44	43	46	56	46	64	43.0
Louisiana	Maximum...	61	67	80	71	72	68	58	55	47	47	62	70	68	65	73	71	68	63	49	64	71	75	71	73	70	73	75	78	80	75	75	67.6
	Minimum ...	39	35	31	50	52	42	30	32	22	30	26	45	52	54	46	56	41	45	44	44	48	53	52	43	44	59	46	47	45	50	44	43.5
Macon /	Maximum...	49	65	72	62	68	50	58	45	47	48	67	65	70	57	72	63	55	47	52	60	69	74	59	71	72	70	73	78	80	69	82	63.5
	Minimum ...	33	33	34	48	48	49	31	31	19	22	23	34	49	52	45	45	47	44	43	43	44	47	49	36	41	46	45	48	49	49	43	41.0
Maryville	Maximum...	57	65	77	67	44	49	53	45	45	47	68	60	67	61	70	63	51	47	62	57	66	70	69	71	66	64	71	75	75	68	84	62.4
	Minimum ...	37	30	43	37	39	35	32	26	19	19	34	50	51	52	49	49	45	40	37	39	45	48	48	39	51	49	44	48	55	50	48	41.5
Mexico /	Maximum...	45	65	79	63	71	57	60	55	*56*	49	65	64	68	63	75	70	54	46	50	64	70	75	63	74	76	73	74	78	82	67	82	65.6
	Minimum ...	31	34	34	53	51	53	35	36	21	*25*	30	39	50	53	45	52	49	45	42	43	44	43	49	38	45	50	48	50	49	52	45	43.0
Moberly /	Maximum...	52	61	79	65	69	49	59	38	49	48	66	68	69	59	72	64	66	47	50	60	67	74	60	71	74	72	73	77	79	66	82	64.0
	Minimum ...	40	32	41	47	49	44	31	38	19	24	32	42	51	53	43	54	43	44	43	43	44	51	50	38	47	55	47	49	51	50	44	43.2
Oregon	Maximum...	60	71	78	66	48	52	57	47	48	51	68	70	69	64	72	61	50	46	63	59	65	73	59	73	68	66	74	77	78	71	88	64.3
	Minimum ...	38	36	49	40	39	34	35	24	20	21	*34*	52	52	52	46	47	43	39	40	41	46	49	49	41	53	49	44	50	56	51	51	42.6
St. Charles /	Maximum...	53	63	78	68	71	65	60	49	46	50	59	69	66	63	71	69	62	48	48	62	72	75	67	75	67	77	70	76	80	68	78	65.3
	Minimum ...	36	32	37	38	53	53	34	40	24	30	31	40	53	55	48	51	48	47	45	45	47	53	52	41	41	55	52	51	52	53	46	44.6
St. Joseph	Maximum...	53	71	80	63	57	50	59	49	48	52	68	58	68	63	73	59	50	43	63	55	65	75	59	73	70	65	73	77	79	71	88	63.8
	Minimum ...	39	38	51	45	42	36	38	27	27	24	39	51	53	52	48	46	43	40	42	42	46	50	46	42	54	50	46	49	60	51	52	44.2
Trenton	Maximum...	60	67	78	70	60	55	56	59	47	48	67	68	70	68	69	67	58	54	62	66	68	68	62	71	72	68	74	78	79	67	83	65.8
	Minimum ...	38	40	38	42	40	36	38	30	21	20	31	45	49	50	47	50	47	42	45	49	51	52	48	35	48	52	44	48	55	51	46	42.8
Unionville /	Maximum...	45	67	76	50	60	45	55	42	37	47	65	65	68	55	58	57	63	46	61	60	68	75	55	70	70	65	74	78	79	66	80	61.4
	Minimum ...	34	32	33	40	40	40	29	30	15	16	17	33	45	50	47	45	45	40	40	40	43	45	47	34	37	47	42	47	53	46	42	38.5
Warrenton	Maximum...	60	69	80	70	73	65	60	58	48	49	63	69	66	65	67	71	62	52	47	63	71	75	70	74	71	75	76	77	82	74	81	67.2
	Minimum ...	37	32	37	54	53	52	30	33	20	29	28	39	52	52	46	55	47	44	42	43	43	53	47	38	46	56	45	49	45	52	44	43.3
Keokuk, Iowa	Maximum...	53	65	76	59	69	61	54	46	38	39	61	68	71	58	69	64	68	51	51	63	68	73	56	66	70	68	72	76	78	64	74	62.9
	Minimum ...	34	34	39	44	43	39	35	25	20	16	28	50	55	53	51	48	48	44	44	42	50	51	46	44	49	55	50	55	56	46	42	43.1
Southwestern Division																																	
Clinton	Maximum...	52	71	78	69	70	55	66	51	59	52	72	60	68	67	74	63	61	50	58	55	72	77	65	77	78	74	78	80	85	75	88	67.7
	Minimum ...	40	30	46	54	55	38	32	25	24	28	31	50	51	54	48	50	45	44	42	46	44	52	46	44	52	55	50	54	54	55	52	44.9
Eldon	Maximum...	..	69	78	70	72	66	63	61	54	54	66	66	65	65	73	66	59	52	52	58	69	75	69	73	73	75	77	79	83	74	84	[a]68.0
	Minimum ...	..	35	42	52	55	48	33	34	24	30	31	47	51	53	50	51	46	44	43	45	43	51	49	42	49	54	50	52	53	53	49	[a]45.3
Harrisonville /	Maximum...	58	72	76	63	65	49	62	42	52	54	69	59	62	69	72	59	55	47	60	53	62	75	65	74	74	73	74	78	81	75	81	64.8
	Minimum ...	38	32	38	46	51	43	32	29	23	21	25	43	48	50	41	47	44	40	40	44	42	44	46	41	46	53	42	50	51	51	49	41.6
Jefferson City	Maximum...	59	70	79	78	73	64	64	52	52	52	67	69	68	69	74	70	58	51	52	59	71	87	78	75	78	74	78	79	83	74	83	69.0
	Minimum ...	39	30	33	54	51	34	29	35	21	30	25	47	50	55	44	51	43	44	43	43	41	53	44	38	38	55	47	51	48	53	47	42.5
Joplin	Maximum...	57	72	75	68	69	59	68	46	61	52	67	58	59	63	70	58	52	47	54	56	70	70	68	71	76	70	73	78	82	77	88	65.6
	Minimum ...	43	42	56	59	57	45	40	33	31	29	39	53	53	54	57	48	47	42	43	45	47	54	49	55	56	56	57	56	57	57	60	49.0
Lamar /	Maximum...	56	74	77	65	70	56	69	46	61	54	69	58	61	66	68	55	53	46	56	55	70	70	70	73	77	73	75	78	82	78	88	66.1
	Minimum ...	42	34	35	50	56	47	35	32	26	25	26	37	51	46	47	45	45	41	41	40	43	44	44	46	52	53	53	51	51	52	54	43.4
Lebanon	Maximum...	62	70	76	72	68	62	64	61	57	58	63	62	62	67	69	62	57	53	49	54	67	73	68	72	69	74	78	77	82	78	83	66.7
	Minimum ...	40	34	46	51	53	49	30	31	23	30	32	45	46	53	50	48	46	43	42	44	43	51	45	47	50	54	51	62	63	65	51	45.7
Lexington /	Maximum...	52	74	78	67	68	56	64	50	57	54	72	62	72	61	67	65	59	64	55	64	70	77	65	70	75	71	74	80	83	72	87	67.3
	Minimum ...	41	38	45	59	54	45	34	38	26	25	34	38	49	54	45	48	46	44	44	44	44	46	46	40	48	53	47	51	51	53	50	44.5
Marshall	Maximum...	64	69	78	72	70	66	61	61	56	51	70	68	69	67	73	73	59	52	55	55	68	75	73	72	79	72	72	79	81	78	88	68.6
	Minimum ...	29	35	43	48	55	41	34	34	24	26	34	49	51	54	49	49	50	43	44	44	44	55	49	41	40	55	57	48	55	55	48	44.6
Mountain Grove	Maximum...	64	68	75	71	67	63	61	57	57	56	59	62	61	65	69	63	60	49	49	50	64	70	67	67	62	77	74	76	81	79	80	65.3
	Minimum ...	39	34	44	50	52	47	34	31	23	30	30	43	48	52	50	51	46	42	42	43	40	51	46	49	49	56	52	55	51	54	52	44.7
Neosho	Maximum...	62	72	76	70	68	64	68	66	64	56	68	65	59	77	69	63	53	47	55	58	71	74	69	73	76	73	72	74	84	80	88	68.2
	Minimum ...	50	33	41	56	58	46	32	32	23	28	30	53	48	46	51	44	47	42	42	38	41	55	47	46	53	55	52	48	47	51	48	44.6
Nevada	Maximum...	61	75	77	70	69	62	70	61	60	55	70	64	64	69	70	61	53	53	58	55	70	72	69	75	79	75	78	81	84	80	89	68.7
	Minimum ...	43	32	45	50	56	42	35	32	25	24	34	48	50	49	50	46	45	42	43	43	43	50	44	45	53	54	..	..	47	53	54	[b]44.0
Sedalia	Maximum...	62	68	77	71	71	65	63	62	57	50	70	68	68	66	72	66	60	55	53	55	65	77	69	73	75	71	76	77	83	80	85	68.1
	Minimum ...	39	34	45	52	56	46	34	35	24	28	34	49	51	54	51	51	46	43	43	45	45	54	48	42	50	55	50	52	55	53	50	45.6
Springfield, 4 mi. NW	Maximum...	58	69	75	67	66	55	66	51	60	50	68	59	59	66	67	57	53	48	50	54	67	71	66	71	72	66	71	78	83	77	86	64.7
	Minimum ...	35	33	45	51	54	40	34	28	26	28	34	46	50	53	53	49	45	42	42	45	42	52	46	47	52	53	51	52	53	52	56	44.8
Warrensburg	Maximum...	62	69	77	68	72	66	66	60	58	52	69	64	69	67	73	65	59	55	57	57	70	75	71	73	76	73	77	79	82	80	86	68.6
	Minimum ...	42	35	48	53	56	41	34	32	24	27	35	45	50	54	48	48	45	42	43	45	45	54	48	43	51	56	49	53	55	54	50	45.3
Southeastern Division																																	
Arcadia /	Maximum...	60	80	80	74	70	67	63	50	50	50	60	67	68	66	84	70	63	55	50	63	72	73	73	70	64	80	78	80	85	78	80	68.5
	Minimum ...	33	32	30	30	50	50	30	30	26	25	23	24	43	50	44	43	39	40	43	43	39	39	50	39	40	53	47	48	46	47	44	39.4
Birch Tree .. ½ mile E	Maximum...	62	69	77	69	66	68	62	..	..	..	59	65	..	..	..	..	70	51	52	60	69	70	72	64	62	77	73	77	83	79	82	[g]68.2
	Minimum ...	37	26	31	53	47	44	28	..	..	..	21	44	..	..	..	..	44	44	44	42	36	46	46	41	52	56	51	46	46	46	50	[g]42.5
Caruthersville	Maximum...	66	70	75	70	75	69	63	58	66	51	68	68	72	69	78	75	69	61	56	62	71	70	75	64	63	70	73	68	78	78	80	68.7
	Minimum ...	39	37	44	55	55	52	39	39	30	40	32	43	54	56	52	57	52	48	48	49	46	55	54	52	54	56	55	60	55	57	55	49.0
Crystal City	Maximum...	63	71	83	82	75	77	65	59	49	52	62	69	70	69	70	75	67	54	50	65	74	77	73	77	68	82	80	83	85	77	81	70.5
	Minimum ...	35	30	31	55	57	52	32	38	25	35	25	49	50	53	45	57	45	48	45	47	43	52	*51*	41	50	57	50	56	49	46	50	45.1
Doniphan	Maximum...	68	75	80	75	73	68	65	56	59	57	62	69	71	70	72	75	68	62	58	68	72	75	77	65	65	82	77	74	87	84	84	70.7
	Minimum ...	32	27	31	54	51	51	30	38	21	38	25	41	49	56	49	58	40	44	42	47	39	48	54	43	54	57	56	62	49	51	48	44.8
Farmington	Maximum...	60	70	79	68	69	66	63	53	48	48	58	65	68	68	73	72	64	53	48	62	71	73	71	71	64	79	77	76	81	72	79	66.7
	Minimum ...	41	33	35	52	54	49	32	35	25	32	27	43	50	54	49	56	44	46	43	44	42	53	51	43	51	57	50	57	50	52	47	45.1
Jackson	Maximum...	64	71	77	71	72	69	63	61	52	50	60	67	72	70	76	75	72	60	54	68	72	74	75	70	65	77	78	77	85	82	78	69.6
	Minimum ...	38	32	33	54	47	52	33	39	27	36	24	39	51	56	46	57	46	47	37	39	43	46	56	42	45	58	51	60	53	54	47	44.8
Poplar Bluff	Maximum...	66	73	78	74	74	63	63	53	59	50	61	70	75	66	73	74	70	59	57	64	73	72	73	67	67	78	77	72	82	82	81	69.2
	Minimum ...	33	30	35	54	53	51	32	36	23	36	24	43	52	51	45	52	49	45	47	49	42	51	54	47	54	58	54	61	53	57	53	45.9
Rolla /	Maximum...	60	69	73	69	72	64	62	37	52	49	62	65	65	66	72	68	59	46	48	59	70	74	68	72	68	77	78	76	82	73	83	65.7
	Minimum ...	41	34	37	52	55	51	32	36	24	30	30	46	51	52	48	54	47	45	42	43	41	54	47	45	49	55	52	56	55	55	48	45.4
St. Louis	Maximum...	61	67	81	67	72	68	58	52	48	46	58	68	68	69	73	71	66	52	49	64	72	76	69	73	67	75	78	79	80	67	74	66.7
	Minimum ...	38	38	44	55	57	47	42	31	27	32	32	46	52	56	54	54	51	45	44	46	50	58	52	46	53	58	55	60	58	53	49	47.8
Salem	Maximum...	59	70	78	69	70	65	63	56	55	52	61	65	65	68	71	69	59	49	52	60	70	74	69	72	64	80	79	77	85	76	82	67.2
	Minimum ...	40	30	35	52	55	49	31	33	25	31	30	46	49	53	48	50	44	44	42	43	40	51	46	41	49	56	48	52	46	56	54	44.2
Sikeston /	Maximum...	66	71	78	70	74	62	64	56	56	51	59	69	72	70	77	74	72	55	57	66	72	73	75	67	64	74	75	71	81	79	79	68.7
	Minimum ...	32	35	37	50	55	52	37	45	28	33	29	38	49	55	49	57	52	48	47	47	44	52	55	47	53	55	53	60	55	55	51	46.9
Union ...... 1½ mi. SE	Maximum...	61	69	80	72	75	68	62	59	47	49	63	69	68	65	75	72	58	54	49	64	73	75	68	74	72	78	78	78	82	74	83	68.2
	Minimum ...	37	31	29	54	52	52	29	36	24	32	24	45	51	54	44	56	46	46	44	45	51	51	49	39	43	57	48	54	47	53	44	44.1
West Plains	Maximum...	64	71	76	69	67	66	63	52	58	54	60	65	62	66	68	67	60	52	54	54	69	71	70	63	62	78	70	74	82	79	83	66.1
	Minimum ...	37	28	31	52	55	36	28	33	24	28	24	44	48	46	44	46	42	44	44	39	35	49	45	44	52	53	50	51	48	49	48	41.8
Cairo, Ill.	Maximum...	63	68	75	70	74	68	63	54	51	50	57	67	71	69	77	75	72	54	55	66	72	73	74	68	66	71	75	72	82	78	78	68.0
	Minimum ...	42	37	44	57	57	52	42	40	32	38	33	45	55	58	52	58	52	49	48	50	50	57	56	51	54	57	55	62	59	60	54	50.2

/ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs. [a], [b], [c], etc., number of days missing, for example, [b] indicates two days missing. Italics data interpolated. § Partly interpolated.



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CLIMATOLOGICAL DATA

MISSOURI SECTION

H. F. WAHLGREN
ST. LOUIS, MO.

VOL. L APRIL 1946 No. 4

PRICE: 5 CENTS A COPY; 25 CENTS A YEAR

GENERAL SUMMARY

April was considerably warmer and slightly drier than normal, with about normal sunshine. It was a very favorable month for outdoor work, crop growth and field work.

The unseasonably mild weather which had prevailed since the first of the year continued during April, making the four months, January to April 1946, inclusive, the warmest comparable period in the 59 years that State-wide records have been kept. The first four months of 1921 and of 1938 were the previous warmest first four months, respectively, of any year since 1887. Above-normal temperatures this month were State-wide, all three divisions of the State averaging approximately 4°, or more, in excess of their respective normals, and each reporting station had average temperature well above normal. The 1st was generally the warmest day of the month, with afternoon temperatures in the high 80's or low 90's. The 12th and 17th were the coldest days, as a rule, with minimum temperatures generally in the high 20's to the middle 30's, and the formation of locally heavy to killing frost, did some damage to tender vegetation and fruits on those dates. The central counties, adjacent to the Missouri River, and the south-central Ozark counties, suffered the greatest amount of damage by the frosts and freezing temperatures, but even in those areas the amount of damage was decidedly variable, depending on exposure and topography. As a rule, crops on hillsides and higher ground escaped damage, while in the valleys they were damaged. Warm periods were from the 1st to 8th, 13th to 15th, and 18th to 25th, with cool periods from the 9th to 12th, 16th to 17th, and the last 5 days of the month. There were no unusual extremes of temperature recorded, for the month as a whole; however, the maximum on the 1st was the highest of record for that date, at some stations. The extreme low temperature of 25°, for the month, was the highest minimum since 1941 and only 5 times in the past 59 years has April had a minimum as high or higher.

Precipitation was again irregularly distributed ranging from 6.41 inches at the station having the greatest monthly total to 0.44 inch at the station with the least monthly amount. The Northern Division was the driest section of the State, with an average of 2.28 inches, or 1.18 inches less than normal. The Southwestern Division received an average of 3.95 inches, or 0.25 inch less than its normal, while the average for the Southeastern Division was 3.87 inches, or 0.56 inch less than normal. Snowfall was unimportant and confined to the extreme northeastern counties, with only one station recording more than a trace. Showers were frequent enough and generally adequate for all current requirements, although more rain was needed the latter part of the month over most of the northern half of the State. However, a fine, slow, soaking rain on the last two days of the month brought adequate moisture to that area.

There were no damaging storms of any kind during April, although light hail fell on several days, at various places. River stages were generally receding throughout April. A minor flood continued from the preceding month to about the middle of April in the Mississippi River from Keokuk to Grafton, and until April 4th at Cairo, Ill.

(Continued on page 27)

PRESSURE, WIND, HUMIDITY, AND SUNSHINE

Stations	Sea-level pressure, extremes-inches				Wind				Relative humidity				Percentage of sunshine	Degree days
	Highest	Date	Lowest	Date	Average hourly velocity	Maximum velocity	Direction	Date	12:30 a. m.	6:30 a. m.	12:30 p. m.	6:30 p. m.		
Columbia	30 51*	12	29.61*	7	7.5	28	sw.	1	70*	77*	51*	54*	63	206
K C. Airport	30.50	12	29.55	3	10.5	37	s.	2	69	73	49	51	58	183
St. Joseph	30.49*	12	29.55*	3	8.5	37	w.	3	76*	82*	50*	55*	64	213
St. Louis	30.46*	12	29.67*	7	11.6	36	sw.	1	67*	73	53	54*	64	178
Springfield	30.50	12	29.65	7	12.4	42	sw.	1	74	82	54	54	73	176
Cairo, Ill.	30.45	12	29.71	8	9.6	31	sw.	1	..	78	49	..	66	114
....	.....	..	.....	..	....	..	......	..	..	..	..	..	..	....

* Data for Airport station.

COMPARATIVE DATA FOR APRIL

Year	Temperature			Precipitation					Number of days			
	Average for State	Highest	Lowest	Average for State	Average, Northern Division	Average, Southwestern Division	Average, Southeastern Division	Snowfall, Average for State	Precip. .01 inch or more	Clear	Partly cloudy	Cloudy
1888	57.9	94	20	1.92	1.54	2.37	1.85	....	5	..	..	..
1889	55.7	90	27	2.66	2.84	3.31	1.83	....	8	..	..	..
1890	56.2	93	25	3.58	2.26	3.43	5.05	....	8	..	..	..
1891	56.8	93	15	3.46	3.88	4.08	2.41	T.	9	..	..	..
1892	53.1	90	24	5.83	5.14	5.35	7.01	0 0	11	9	8	13
1893	53.9	95	19	8.27	6.37	9.14	9.29	0.0	12	8	9	13
1894	56.1	95	20	3.11	2.24	3.52	3.58	T.	8	12	10	8
1895	57.9	100	24	2.04	1.87	2.08	2.17	T.	7	14	8	8
1896	61.9	92	17	3.57	3.10	4.35	3.25	0.0	9	11	12	7
1897	54.4	88	21	4.65	4.07	3.78	6.10	T.	10	10	11	9
1898	52.5	90	14	3.64	3.77	3.75	3.40	T.	10	12	9	9
1899	54.0	96	6	3.80	3.46	4.02	3.93	3.8	8	12	9	9
1900	56.7	89	21	3.50	3.05	3.66	3.78	0.7	9	11	10	9
1901	53.3	94	24	2.96	2.63	2.83	3.41	1.8	8	14	7	9
1902	53.9	95	19	2.82	1.98	3.30	3.18	T.	11	13	11	6
1903	55.9	91	26	3.37	3.97	3.34	2.79	1.2	9	11	10	9
1904	49.0	84	19	5.63	6.14	6.07	4.67	2.7	9	15	6	9
1905	54.9	92	20	3.09	3.66	2.28	3.34	0.3	6	14	8	8
1906	59.5	93	22	2.42	2.67	2.40	2.18	0.0	6	17	7	6
1907	48.7	89	16	3.33	2.62	3.83	3.55	T.	8	11	8	11
1908	56.6	90	18	5.89	2.55	6.58	8.53	T.	11	11	8	11
1909	54.8	93	19	4.72	4.36	3.60	6.21	T.	8	13	9	8
1910	54.8	97	21	3.58	2.74	3.55	4.45	0.9	11	12	7	11
1911	53.5	91	20	4.93	4.28	4.70	5.81	T.	10	12	8	10
1912	56.0	89	24	6.08	3.78	6.47	8.00	0.7	10	13	7	10
1913	56.2	94	25	3.32	3.36	3.10	3.50	T.	7	16	5	9
1914	55.2	91	18	3.14	2.57	3.11	3.75	T.	8	12	7	11
1915	61.9	96	18	2.12	1.93	2.64	1.79	T.	7	16	8	6
1916	53.5	93	21	3.32	2.77	3.93	3.27	1.9	10	11	8	11
1917	53.2	89	19	5.95	5.66	5.08	7.11	1.2	12	12	6	12
1918	50.8	93	19	5.33	3.61	5.26	7.11	0.9	11	12	6	12
1919	55.3	94	20	3.03	3.15	3.46	2.47	T.	9	12	7	11
1920	50.2	89	4	3.82	4.86	3.30	3.31	4.8	11	11	7	12
1921	56.0	91	19	5.36	4.70	5.22	6.16	1.1	10	13	7	10
1922	57 3	91	24	6.41	4.96	8.47	5.81	T.	11	13	6	11
1923	54.2	92	14	3.26	2.52	3.38	3.89	0.4	8	14	8	8
1924	56.6	95	11	2.15	1.26	2.78	2.40	T.	6	14	8	8
1925	61.0	92	24	4.12	4.12	4.73	3.52	0.0	10	12	9	9
1926	49.9	91	11	2.42	2.39	2.17	2.69	2.4	8	14	6	10
1927	57.7	94	18	8.68	6.73	8.61	10.70	T.	14	10	7	13
1928	51.6	88	16	4.86	2.76	5.46	6.37	0.2	8	13	7	10
1929	57.4	96	27	6.15	6.32	6.58	5.56	0.0	12	11	8	11
1930	59.1	96	23	2.02	1.89	2.77	1.39	0.0	8	14	8	8
1931	54.8	90	22	2.96	2.92	2.77	3.18	T.	9	14	6	10
1932	57.6	95	22	2.58	2.43	2.52	2.78	0.0	8	14	8	8
1933	54.9	88	22	3.84	2.08	3.82	5.62	0.7	10	11	9	10
1934	56.5	90	24	2.50	2.06	2.61	2.84	T.	7	16	8	6
1935	52.3	90	23	2.90	3.10	3.02	2.59	0.7	9	9	7	14
1936	53.0	95	9	2.45	2.00	1.93	3.41	0.5	8	16	7	7
1937	54.5	93	21	4.04	3.25	3.67	5.21	T.	10	10	8	12
1938	56.7	89	18	3.68	3.79	4.13	3.13	3.2	10	13	9	8
1939	53.4	88	16	5.01	4.35	4.32	6.36	0.1	10	11	8	11
1940	54.0	92	15	4.41	3.01	4.57	5.64	0.3	11	11	8	11
1941	59.2	90	29	4.49	3.47	6.20	3.81	0.0	10	11	9	10
1942	59.1	94	20	3.83	3.07	4.56	3.87	0.0	9	14	8	8
1943	56.0	91	18	2.91	2.28	3.15	3.30	T.	9	13	10	7
1944	52.2	89	16	6.68	7.69	5.78	6.57	0.0	13	8	9	13
1945	55 9	86	20	7.75	5.73	9.00	8.52	T	14	9	8	13
1946	59.6	94	25	3.37	2.28	3.95	3.87	0	8	13	8	9
....	....	..	..	....	....	....	....	....	..	..	..	..
....	....	..	..	....	....	....	....	....	..	..	..	..
Period	**55.3**	**100**	**4**	**4.03**	**3.46**	**4.20**	**4.43**	**0.5**	**9**	**12**	**8**	**10**

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Climatological Data for April 1946

Stations	Counties	Elevation, feet	Temperature, in degrees Fahr.							Precipitation, in inches						Number of days				Prevailing direction of wind	Observers
			Length of record, years	Mean	Departure from the normal	Highest	Date	Lowest	Date	Length of record, years	Total	Departure from the normal	Greatest in 24 hours [4]	Date	Total snowfall, unmelted	With precip., .01 inch or more	Clear	Partly cloudy	Cloudy		
Northern Division																					
Albany	Gentry	930	5	56.2[c]	......	82[c]	20	29[c]	12	17	2.24	−0.55	0.87	5	0	7	8[c]	12[c]	7[c]	s.	Curtis E. Grace
Amity	DeKalb	1,007	0	57.2	......	80	1†	31	12	11	1.06	−3.04	0.39	5	0	7	11	6	13	se.	O. M. Colhour
Bethany	Harrison	916	51	55.9	+ 4.4	80	20	28	12	53	2.36	−0.93	0.85	5	0	6	14	7	9	sw.	B. A. McGregor
Brookfield	Linn	767	5	57.6	......	86	1	28	12	5	1.92	......	0.80	22	0	5	20	5	5	e.	G. F. Breen
Brunswick	Chariton	652	65	57.4	+ 3.2	87	1	30	12†	67	3.39	−0.44	1.15	14-15	0	8	17	5	8	sw.	O. K. Benecke
Canton, Lock & Dam 20	Lewis	488	8	56.2	......	84	1	30	12	16	3.00	+0.24	0.87	14-15	*T.*	9	13	11	6	sw.	Lockmaster
Chillicothe	Livingston	779	37	56.6	+ 4.6	83	1†	30	12	40	2.10	−1.12	0.58	5†	0	6	22	2	6	ne.	Wm. J. Olenhouse
Clifton Hill	Randolph	731	47	58.9[d]	+ 5.4	85[d]	1	28[d]	12	37	3.30§	−0.06	0.95	23	0	8	14[d]	5[d]	7[d]	sw.	Dr. A J. Bradsher
Columbia	Boone	740	56	59.5	+ 4.7	88	1	31	12	56	3.00	−0.77	0.81	22-23	0	10	16	7	7	e.	U. S. Weather Bureau
Conception	Nodaway	1,108	57	57.4	+ 5.2	83	1	32	12	62	1.58	−1.15	0.77	5	0	6	16	5	9	e.	Fr. Adelhelm Hess
Edgerton	Platte	856	26	57.6	+ 3.8	84	1	32	9	43	2.17	−0.91	0.98	14-15	0	7	14	9	7	se.	W. A. Foster
Elsberry	Lincoln	449	15	56.8	+ 3.2	88	1	28	17	15	1.47	−1.58	0.48	23	0	9	12	9	9	se.	Soil Conservation Service
Fayette	Howard	760	66	58.2	+ 4.0	86	1	29	12	63	2.27	−1.28	0.66	5-6†	0	11	16	5	9	sw.	Irvin E. Schnell
Fulton	Callaway	818	58	58.4	+ 3.8	88	1	32	12	54	2.47	−1.54	0.75	22-23	0	9	18	9	3	ne.	Frank E. Hillgartner
Grant City	Worth	1,134	42	55.8	+ 3.6	80	1	33	9†	54	1.50	−1.46	0.53	5	0	5	10	10	10	n.	J. Homer Korn
Hannibal	Marion	759	54	57.2	+ 3.8	84	1	31	12	62	2.76	−0.43	0.86	22-23	T.	9	7	16	7	ne.	Hannibal Water Dept.
Kansas City Airport	Jackson	741	57	60.5	+ 5.7	86	1	33	12	57	4.57	+1.05	1.97	22	0	8	11	4	15	ne.	U. S. Weather Bureau
Kansas City Univ.	Jackson	908	8	62.5	......	88	1	33	12	8	4.68	......	1.97	21-22	0	10	5	12	13	sw.	University of Kansas City
Kidder	Caldwell	1,020	54	56.0	+ 3.8	82	1	29	12	58	2.10	−1.18	0.80	5	0	5	11	7	12	n.	Mrs. Geraldine Terry
Kirksville	Adair	969	57	56.2	+ 4.3	81	1	31	12	64	2.72	−1.38	1.10	14-15	*T.*	8	21	3	6	e.	Dr. Willis J. Bray
Knoxville	Ray	960	1	57.0	......	83	1	30	12	2	3.99	......	1.58	22	0	9	10	6	14	s.	C C. A. Station
Lawson	Ray	1,070	8	....	......	..	..	..	..	8	....	......	....	..	....	..	..	..	..	......	Elmer E. Lamb
Louisiana	Pike	469	52	57.4	+ 3.4	85	1	29	17†	65	1.48	−2.24	0.53	28	*T.*	8	13	10	7	ne.	Stark Bro's Nurseries
Macon	Macon	875	47	56.2	+ 3.1	83	1	30	12	53	2.32	−1.34	0.84	22	0	7	13	7	10	ne.	John W. Atwell
Maryville	Nodaway	1,169	56	56.4	+ 5.6	81	19	30	12	52	1.13	−1.88	0.35	10	0	6	9	8	13	se.	R. B. Montomery
Memphis	Scotland	787	7	54.6	......	83	1	30	11†	16	1.93	−1.27	0.57	14	0	7	19	5	6	sw.	John W. Alexander
Mexico	Audrain	800	57	57.2	+ 3.4	85	1	30	12	68	2.11	−1.64	0.66	22-23	0	7	14	6	10	n.	Darrence W. Stuart
Moberly .....3½ mi. NE	Randolph	860	9	57.6[a]	+ 3.9	85[a]	1	28[a]	12	9	2.86	−1.17	0.94	22	0	7	18[a]	0[a]	11[a]	sw.	F. W. Bell
New Florence. 1 mi SE	Montgomery	885	3	57.2	......	86	1	30	12	4	2.67	......	0.73	30	0	8	9	7	14	e.	U. S. Weather Bureau
Oregon	Holt	1,048	90	58.4	+ 5.7	85	1	33	12	90	1.01	−2.28	0.37	9-10	0	7	17	6	7	s.	James M. Curry
St. Charles	St. Charles	520	58	59 2	+ 3.6	88	1	31	12	68	1.88	−1.87	0.67	15	0	10	9	16	5	w.	Martin L. Comann
St. Joseph	Buchanan	957	36	58.8	+ 5.3	83	20	33	12	74	1.79	−1.40	0.54	14-15	0	8	15	9	6	e.	U. S. Weather Bureau
Saverton, Lock No. 22	Ralls	472	8	57.9	......	86	1	35	11†	8	2.20	......	0.69	22-23	*T.*	7	18	6	6	w.	Lockmaster
Shelbina	Shelby	779	5	57.6[a]	......	85[a]	1	29[a]	12	53	2.90	−0.85	0.84	22-23	*T.*	10	14[a]	8[a]	7[a]	nw.	Guyman Hatcher
Steffenville	Lewis	650	48	56.2	+ 3.1	83	1	30	12	53	3.07	−0.51	1.11	14-15	T.	10	13	9	8	n.	Mrs. Fannie V. Gross
Tarkio	Atchison	916	43	55 6	+ 3.4	85	19	28	12	52	0.44	−2.80	0.28	10-11	0	5	9	7	14	s.	C. A. A. Station
Trenton	Grundy	822	50	57.6	+ 4.9	83	1	30	12	51	1.35	−2.23	0.57	14	0	6	9	14	7	s.	W. H. Estes
Unionville	Putnam	1,062	53	55.0	+ 4.0	84	1	28	12	53	1.86	−1.84	0.55	5	*T.*	7	13	13	4	w.	Mrs. Dora A. Wilson
Vandalia	Audrain	766	2	57.1[a]	......	88[a]	1	29	17	7	1.28	......	0.42	22-23	*T.*	4	18	7	5	s.	Mrs. Naomi K. Stoutz
Warrenton	Warren	816	64	58.4	+ 3 6	89	1	29	17	56	2.30	−1.74	0.63	15	0	8	17	11	3	e.	W. T. Zimmerman
Keokuk, Iowa	Lee, Ia.	574	74	56.0	+ 3.7	83	1	33	11†	74	2.21	−0.78	0.59	11	0.6	10	10	13	7	sw.	U. S. Weather Bureau
Division means	**and extremes**	.....	..	**57.3**	**+ 4.1**	**89**	**1**	**28**	**12†**	..	**2.28**	**−1.18**	**1.97**	**21-22**	**0**	**8**	**14**	**8**	**8**	**sw.**	
Southwestern Division																					
Anderson ...1½ mi SW	McDonald	1,000	42	60 6	+ 3.9	94	1	30	12†	47	6.41	+1.72	3.05	23	0	10	18	5	7	sw.	Samuel G. Chamberlain
Appleton City	St. Clair	813	51	60.0	+ 3.9	88	1	30	12	54	4.56	+0.43	2.08	14-15	0	6	13	4	13	ne.	Rolla Brown
Bolivar	Polk	1,071	43	61.6	+ 5.3	89	1	32	12	51	3.71	−0.46	1.11	22-23	0	8	13	9	8	sw.	Southwest Baptist College
Boonville	Cooper	650	8	57.8	......	87	1	30	12	69	2.45	−1.42	0.62	22-23	0	10	13	7	10	ne.	Boonville Water Dept.
Butler	Bates	865	0	59.0[e]	......	84[e]	7	29[e]	12	5	4.91	......	2.18	22	0	5	11	8	11	s.	F. S. Wolf
Carthage	Jasper	962	12	61 8	......	92	1	30	12	22	4.04	......	1.20	22-23†	0	7	10	17	3	sw.	Carthage W. and E. Plant
Clinton	Henry	786	53	60.2	+ 3.9	90	1	32	12	59	4.72	+0.55	2.10	14-15	0	5	10	8	12	s.	U. S. Weather Bureau
Eldon	Miller	931	51	60.7	+ 5.3	88	1	31	12	47	4.44	+0.28	1.50	15	0	7	10	8	12	ne.	Ira M. Wilson
Fort Leonard Wood	Pulaski	1,107	5	58.9[h]	......	87[i]	19	30[h]	12	5	5.55	......	1.75	15	0	10	9[g]	5[g]	9[g]	sw.	U. S. Army Medical Corps
Harrisonville	Cass	904	68	58.1	+ 4.2	90	1	29	12	71	5.14	+1.76	2.28	22-23	0	7	14	2	14	ne.	Jeffrey B. Patterson
Jefferson City	Cole	557	56	58.8	+ 2.8	89	1	28	12	64	3.91	−0.07	1.23	14-15	0	9	16	6	8	......	K. W. O. S. Radio Farm
Joplin	Jasper	1,008	24	64.0	+ 5.5	90	1	38	12	41	5.35	+0.65	2.46	28	0	7	9	10	11	n.	Empire Dist. Electric Co.
Lakeside	Miller	595	15	60.2	+ 4.8	89	1	31	12	15	3.43	+0.45	1.24	14-15	0	9	14	6	10	ne.	W. S. Frame
Lamar	Barton	980	58	59.8	+ 3.2	90	1	31	12†	65	3.32	− 1.20	1.28	28	0	6	17	4	9	sw.	Mrs. Marie Mann
Lebanon	Laclede	1,265	58	59.3	+ 3.8	90	1	29	12	59	5.69	+1.34	1.71	5-6	0	9	13	7	10	sw.	Mrs. Rosa E. Montelius
Lexington	Lafayette	688	61	59.8	+ 5.2	89	1	34	12	62	4.02	+0.22	1.70	22	0	5	20	5	5	s.	Tilton Davis
Lockwood	Dade	1,078	40	61.6	+ 5.1	88	2	32	12	50	3.46	−1.07	1.06	22-23	0	8	12	11	7	sw.	Hubert A. Nieman
Marshall	Saline	779	59	59.8	+ 5.0	87	1	31	12	56	2.76§	−1.13	1 41	22-23	0	10	14	11	5	s.	Thomas A. Reid
Mountain Grove	Wright	1,463	45	61.2	+ 6.3	90	1†	31	12†	49	4 12	−0.40	1.15	29-30	0	9	13	9	8	se.	Mo. Fruit Exp. Station
Mount Vernon	Lawrence	1,174	34	60.2	+ 4.1	92	1	31	12‡	46	4 41	−0.04	1.10	28-29	0	8	5	17	8	sw.	James C. Williamson
Neosho	Newton	1,011	59	63.4	+ 5.1	92	1	30	12†	63	4.34	−0.22	1.48	22-23	0	8	12	12	6	ne.	U. S Fisheries Station
Nevada	Vernon	862	53	62.5	+ 6.8	92	1	30	12	54	2.61	−1.65	1.08	15†	0	6	15	4	11	ne.	Henry Kraft
Ozark Beach	Taney	700	6	62.0	......	94	1	34	17	21	2.69	−1.78	0.73	23-24	0	7	12	12	6	nw.	Empire District Elec. Co.
Sedalia	Pettis	910	33	60.0	+ 4.7	86	1	28	12	35	3.54	−0.19	1.45	15	0	7	13	6	11	sw.	Dr. J. E. Cannaday
Seligman	Barry	1,542	45	62.1[a]	+ 5.5	90[a]	1	33[a]	12	43	3.59	−0.47	0.89	15	0	7	13[b]	8[b]	7[b]	w.	Floyd E. Fawver
Seymour. 3½ miles NE	Webster	1,642	40	57.3	+ 1.6	88	1	29	17†	40	4.61	+0.29	1.37	23-24	0	10	15	4	11	s.	A. L. Hailey
Springfield...4 mi. NW	Greene	1,301	58	60.6	+ 5.4	92	1	31	12	58	4.00	+0.14	1.46	22-23	0	10	8	4	18	s.	U. S. Weather Bureau
Sweet Springs	Saline	700	5	59.2	......	89	1	28	12	5	3.61	......	1.45	22-23	0	10	13	10	7	s.	H F. Nelson
Warrensburg	Johnson	878	59	60.8[c]	+ 4.7	91[c]	1	31[c]	12	66	4.26	+0.60	1.95	22-23	0	10	13	8	9	ne.	Central Teachers College
Warsaw	Benton	687	45	61.5	+ 4.8	89	1	31	12	51	4.31	−0.15	1.70	14-15	0	6	11	7	12	sw.	Dora B. Johnson
Wasola	Ozark	1,294	5	62.6	......	93	1	34	12	6	3.96	......	1.01	23-24	0	6	9	15	6	e.	A. W. Pinckney
Division means	**and extremes**	.....	..	**60.5**	**+ 4.6**	**94**	**1**	**28**	**12**	..	**3.95**	**−0.25**	**3.05**	**23**	**0**	**8**	**13**	**8**	**9**	**sw.**	
Southeastern Division																					
Advance.... ¼ mile W	Stoddard	354	9	59.5	+ 2.0	87	21	31	13	9	5.57	+0.40	2.10	30	0	12	10	6	14	sw.	U. S. Weather Bureau
Arcadia	Iron	926	65	58.7	+ 3.4	90	1†	29	17†	68	3.75	−1.07	1.16	23-24	0	9	14	6	10	e.	Arcadia College
Birch Tree... ½ mile E	Shannon	1,000	51	59.7[f]	+ 2.6	91[f]	1	30[e]	17	52	4.43	−0.33	1.35	29-30	0	5	16[e]	5[e]	4[e]	sw.	R. C. Moger
Black.......9 miles NW	Iron	1,000	53	58.7	+ 3.7	93	1	25	17	53	5 07	+0.18	1.61	30	0	9	16	6	8	sw.	Claude Volner
Campbell	Dunklin	314	20	62.0	+ 3.3	85	1†	35	12†	20	2.83	−1.43	0.85	29-30	0	10	19	7	4	s.	Mrs. Ruth Christian
Cape Girardeau	Cape Girardeau	347	1	62.6	......	84[a]	1	37	12	46	4 38	+0.50	1.35	23-24	0	9	9	12	9	n.	Homer R. Bolen
Caruthersville	Pemiscot	265	50	64.4	+ 4.2	85	21†	38	13†	54	2.63	−1.89	0.59	15-16	0	8	16	6	8	se.	Victor T. Malloure
Crystal City	Jefferson	420	12	61.6	+ 6.6	93	1	30	17	12	2.94	−0.70	0.93	30	0	9	9[b]	3[b]	16[b]	nw.	Richard K. Ragland
Doniphan	Ripley	344	42	63.0	+ 4.5	91	1	29	17	42	5.17	+0.24	2.40	29-30	0	10	23	3	4	sw.	Boyce Lackey
Farmington	St. Francois	896	35	59.7	+ 2.8	91	1	31	17	49	3.67	−0.85	0.97	23-24	0	10	11	8	11	ne.	F. M. Karsch
Greenville‡	Wayne	460	37	60.6[f]	+ 4.0	90[f]	1	29[f]	17	39	6.25	+1.55	2.68	29-30	0	8	15[f]	3[f]	6[f]	ne.	Beuford Shoemake
Jackson	Cape Girardeau	428	55	61.2	+ 4.1	88	20†	30	13	56	4.89	+0.55	1 60	29-30	0	11	16	8	6	s.	Danny Siebert
Koshkonong	Oregon	958	45	63.0	+ 4.5	89	1†	34	12†	46	4.60	−0.42	1.65	23-24	0	11	10	11	9	se.	Mrs. Genevieve T. Smith
Licking...... 4 miles N	Texas	1,170	9	59.5	+ 2.8	92	1	29	12	9	4.84	+0.16	1.27	23-24	0	9	19	2	9	s.	U. S. Forestry Service

Continued on next page

Climatological Data for April 1946—Continued from preceding page

Stations	Counties	Elevation, feet	Temperature, in degrees, Fahr.							Precipitation, in inches						Number of days				Prevailing direction of wind	Observers
			Length of record, years	Mean	Departure from the normal	Highest	Date	Lowest	Date	Length of record, years	Total	Departure from the normal	Greatest in 24 hours [4]	Date	Total snowfall, unmelted	With precip., .01 inch or more	Clear	Partly cloudy	Cloudy		
Southeastern Division—	*Concluded*																				
Marble Hill	Bollinger	532	51	61.6	+ 4.4	87	20	31	13†	53	5.78	+1.29	1.89	23	0	9	18	5	7	s.	R. A. DeWitt
Poplar Bluff	Butler	339	41	63.1	+ 3.6	86	1†	34	13	42	4.30	−0.21	1.62	23–24	0	9	16	7	7	sw.	Osmon M. Richardson
Rolla	Phelps	1,202	46	59.9	+ 4.0	91	1	31	12	62	3.22	−1.00	0.97	15	0	9	10	14	6	sw.	Rolla School of Mines
St. Louis:																					
City Office		465	109	61.1	+ 5.0	91	1	35	12	109	2.85	−0.96	1.69	30–1	0	8	9	8	13	ne.	**Section Center**
St. Louis Airport	St. Louis	556	9	60.0	+ 5.2	91	1	33	12	15	2.40	−1.22	0.87	30	0	7	9	5	16	n.	U. S. Weather Bureau
St. Louis University	St. Louis City	578	34	61.0	+ 5.3	92	1	35	12	34	3.62	−0.24	1.89	30	0	8	19	6	5	se.	St. Louis University
Salem	Dent	1,206	42	58.6	+ 2.6	92	1	29	17	45	4.45	−0.05	1.21	15	0	11	13	10	7	n.	E. E. Martin
Sikeston	Scott	318	39	62.4	+ 4.3	88	21†	34	17	49	5.37	+0.75	2.06	23–24	0	8	13	9	8	nw.	Mrs. Lucy W. Humphreys
Union 1½ mi. SE	Franklin	520	8	59.5	......	91	1	29	17	29	2.68	−1.68	1.01	15	0	12	10	3	17	n.	Cornelius Sieges
Vichy 2 mi. NW	Maries	1,125	10	60.0	......	92	1	31	12	11	3.67	......	1.01	30	0	9	9	6	15	sw.	Civil Aeronautics Adm.
Wappapello Dam	Butler	475	7	62.7	......	87	1	38	12	7	4.37	......	1.67	23–24	0	10	20	4	6	sw.	U. S. Engineer Office
Weingarten	St. Genevieve	833	5	60.4	......	92	1	31	12	6	4.36	......	1.30	29–30	0	7	9	11	10	n.	William J. Miller
West Plains	Howell	1,005	9	59.6	+ 2.6	90	1†	30	12†	9	4.89	−0.76	2.08	23–24	0	11	8	6	16	s.	U. S. Weather Bureau
Willow Springs 500 ft E	Howell	1,238	5	61.4	......	91	1†	29	17	39	3.29	−1.55	1.10	29–30	0	6	10	9	11	s.	Allen Frazee
Cairo, Ill.	Alexander, Ill.	314	74	63.5	+ 4.4	86	22	38	12	75	4.61	+0.89	1.20	29–30	0	13	10	8	12	sw.	U. S. Weather Bureau
Division means	**and extremes**	.....	..	**61.0**	**+ 3.9**	**93**	**1**	**25**	**17**	..	**3.87**	**−0.56**	**2.65**	**23–24**	**0**	**9**	**13**	**7**	**10**	**sw.**	
State means	**and extremes**	.....	..	**59.6**	**+ 4.3**	**94**	**1**	**25**	**17**	..	**3.37**	**−0.66**	**3.05**	**23**	**0**	**8**	**13**	**8**	**9**	**sw.**	

The departures from normal temperature are computed from the averages of the entire period for stations having 10 or more years of record. Departures of precipitation for stations with 15 years or more of record are computed from a normal or "standard mean", adjusted to a uniform 35-year period; for stations of 10 to 14 years the means for the period of record are used. The normal may be found by adding the departures when minus (−) or subtracting when plus (+). Figures and letters following stations indicate distance in miles and direction of station from the city Post Office, unless otherwise indicated. T. Trace or 0.005 inch or less. [a], [b], [c], etc., number of days missing; for example, [b], indicates two days missing. Italics data interpolated. § Partly interpolated. † And other dates. ‡ Received too late to be included in means and summaries. [4] Best available used for stations not equipped with recorders. Post office address of: Altona is Adrian; Crane Mountain is Arcadia; East End is Goodland; Eastwood Lookout is Van Buren; Ellsinore Lookout is Mill Spring; Hailey is Cassville; High Lookout is Birch Tree; Macedonia Lookout is Doniphan; Perry is Center; Pilot Knob is Ironton; Wilderness Lookout is Lampe.

Continued from page 25

All field and garden crops made good growth and development during the month. Wheat and oats, as well as pastures and meadows, were in very good to excellent condition at the close of April. However, there were reports of Hessian fly damage, to wheat, in some fields. Corn planting made very good progress and was about 40% completed during the month, greatest progress being made in the southern part of the State, where about 60% of the corn crop had been planted. Cotton in the southeastern counties was mostly planted and some was up to good stands. Fruit prospects were unusually good, as a rule, except where damaged locally in central and south-central areas by frost and freezing temperatures. Strawberries were being picked in the extreme southern part of the State during the last week of April. First cutting of alfalfa was begun during the second week and continued throughout the remainder of the month. Blue-grass was heading in the northwestern counties the latter half, and this is the earliest that can be remembered. Everything was about a month advanced and prospects for above average crop yields were very good at the end of April.—M. R. W.

TEMPERATURE

The monthly mean for the State, 99 stations reporting, was 59.6°, or 4.3° warmer than the 59-year April average. The highest monthly mean was 64.4° at Caruthersville, and the lowest was 54.6° at Memphis. The highest reported was 94° at Anderson and Ozark Beach, on the 1st, and the lowest was 25° near Black, on the 17th.

PRECIPITATION

The average for the State, 210 stations reporting, was 3.37 inches, or 0.66 inch less than the 59-year April average. The greatest monthly amount was 6.41 inches at Anderson, and the least was 0.44 inch at Tarkio. The greatest amount reported in 24 hours was 3.05 inches at Anderson, on the 23d. The average number of days with 0.01 inch, or more, was 8.

Only a few stations, all in the extreme northeastern counties, reported snowfall, generally only a trace. The greatest monthly amount reported was 0.2 inch at Kahoka.

MISCELLANEOUS PHENOMENA

Aurora.—23d.

Duststorms.—3d, 4th.

Floods.—In Mississippi River, in the reach from Keokuk to Grafton, continued from March to April 19th; at Louisiana on 21st; at Cairo, Ill., continued from March to April 4th.

Frosts.—Light, 5th, 9th, 11th, 12th, 13th, 15th, 16th, 17th, 18th, 26th, 27th; heavy, 9th, 12th, 13th, 17th, 27th; killing, 12th, 17th.

Fogs.—Heavy, 5th, 6th, 10th, 11th, 12th, 22d, 28th, 29th, 30th.

Hail.—Light, 3d at Unionville; 5th at Caplinger Mills and Springfield; 7th at Farmington; 8th at Pierce City; 14th at Brunswick and University of Kansas City; 22d at University of Kansas City.

Windstorms.—No damaging winds reported.

ERRATA

January 1946, page 2: Date of greatest 24-hour precipitation at Lakeside should be 8–9th.

February 1946, page 9: Per cent of sunshine at Kansas City Airport should be 78.

March 1946, page 17: Degree days at Springfield should be 326.

Daily Precipitation for April 1946

Stations	Drainage basins	Day of month																															Total
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	..	
Northern Division																																	
Albany	Grand	....	....	....	....	.87	....	....	....	*	.21	.26	....	....	.10	.25	....	....	....	....	....	....	....	.55	....	....	....	....	....	....	....	....	2.24
Amity	do	....	....	....	....	.39	T.	....	T.	.20	T.	.20	....	....	.15	.08	....	....	....	....	....	....	.02	.02	....	....	....	T.	....	....	T.	....	1.06
Auxvasse	Missouri	....	....	....	....	.05	.35	.04	....	T.	T.	.05	....	....	T	.43	....	....	....	....	....	....	T.	.45	....	....	....	....	.06	.01	.57	....	2.01
Bethany	Grand	....	....	....	....	.85	....	T.	....	T.	.16	.32	....	....	.25	.33	....	....	....	....	....	....	T.	.45	....	....	....	T.	....	....	....	....	2.36
Bowling Green[2]	Mississippi	....	....	....	....	....	.13	....	....	....	....	.12	.02	....	....	.13	....	....	....	....	....	....	....	.31	....	....	....	....	.24	....	....	....	0.95
Brookfield[2]	Grand	....	....	....	....	....	.41	....	....	....	.15	.10	....	....	....	.46	....	....	....	....	....	....	....	.80	....	....	....	....	....	....	....	....	1.92
Browning 3 mi. NE	do	....	....	T.	....	.65	....	.01	T	T.	.07	.50	....	....	.38	.45	....	....	....	T.	....	....	.04	.41	....	....	....	T.	.02	....	T.	....	2.53
Brunswick[2]	do	....	....	....	....	....	.64	....	.04	....	.18	.23	....	....	....	1.15	.12	....	....	....	....	....	....	.98	....	....	....	....	....	.05	....	....	3.39
Canton, Lock No. 20[2]	Mississippi	....	....	....	....	....	.53	....	.06	....	.03	.63	.07	....	.02	.85	....	....	....	....	....	....	....	.80	....	....	....	....	T.	.01	....	....	3.00
Centralia[2]	do	....	....	....	....	....	.53	....	....	....	....	.21	....	....	....	.57	.03	....	....	....	....	....	....	.61	....	....	....	....	*	.13	.12	....	2.20
Chillicothe[2] (A)	Grand	....	....	....	....	....	.58	....	.01	....	.10	.25	....	....	....	.58	....	....	....	....	....	....	....	.58	....	....	....	....	....	T.	....	....	2.10
Chillicothe[2] (B)	do	....	....	....	....	....	.54	T.	T.	....	.09	.22	....	....	....	.64	....	....	....	....	....	....	....	.73	....	....	....	....	....	....	....	....	2.22
Clifton Hill	Chariton	....	....	....	....	....	*	.58	....	....	.30	.27	....	....	....	.82	....	....	....	....	....	....	.35	.95	....	....	....	T.	.03	....	T.	....	§3.30
Columbia[1, 5]	Missouri	....	....	T.	....	.52	T.	.22	T.	.03	T.	.09	....	....	.02	.61	....	....	T.	....	....	....	.71	.10	....	....	....	T.	.22	....	.48	....	3.00
Columbia[5] 9 mi. WNW	do	....	....	....	....	T.	.54	.04	....	T.	T.	.04	....	....	T.	.57	....	....	....	....	....	....	T.	.66	....	....	....	....	.19	.05	.40	....	2.49
Conception	do	....	....	....	....	.77	....	T.	....	*	.17	.37	T.	....	.15	T.	....	....	....	....	....	....	....	.12	....	....	....	T.	....	....	....	....	1.58
Edgerton	do	....	....	....	....	.75	....	....	....	*	.14	.21	....	....	.09	.89	....	....	....	....	....	....	....	....	....	....	....	....	.09	....	....	....	2.17
Edina[2]	Mississippi	....	....	....	....	....	.72	....	.02	....	T.	.50	.22	....	....	.66	....	....	....	....	....	....	....	.68	....	....	....	....	....	....	....	....	2.80
Elsberry S.C.S.[2]	do	....	....	....	....	....	.13	....	....	....	T.	.13	.04	....	....	.15	....	....	....	....	....	....	....	.48	.03	....	....	....	.21	.22	.08	....	1.47
Fayette	Missouri	....	....	....	....	.07	.59	.06	T.	.03	.03	T.	....	....	.03	.59	....	....	....	....	....	....	.24	.42	....	....	....	....	.09	....	.12	....	2.27
Fulton[2]	do	....	....	....	....	....	.56	.16	....	....	....	.02	....	....	T.	.42	.18	....	....	....	....	....	....	.75	....	....	....	....	.12	.04	.22	....	2.47
Gallatin[2]	Grand	....	....	....	....	....	.54	T.	....	....	.06	.07	....	....	T.	.60	....	....	....	....	....	....	....	.08	....	....	....	....	....	....	....	....	1.35
Grant City	do	....	....	T.	....	.53	....	....	T.	....	.12	.39	....	....	.10	T.	....	....	....	....	....	....	....	.36	....	....	....	....	....	....	T.	....	1.50
Hannibal[1] (A)	Mississippi	....	....	....	....	.35	....	.02	T.	T.	T.	.43	....	....	.30	.20	....	....	....	....	....	....	.50	.36	....	....	....	T	.51	....	.09	....	2.76
Hannibal[2] (B)	do	....	....	....	....	....	.30	....	.04	....	.24	.72	.08	....	....	.44	....	....	....	....	....	....	....	.78	....	....	....	....	.20	.20	....	....	3.00
Hermann[2]	Missouri	....	....	....	....	....	.31	....	.07	....	....	.14	....	....	....	.24	.64	....	....	....	....	....	....	.53	.08	....	....	....	.38	....	.30	....	2.69
Kahoka[2]	Mississippi	....	....	....	....	....	....	*	.87	....	.03	.94	....	....	....	.82	....	....	....	....	....	....	....	.48	....	....	....	....	....	....	....	....	3.14
Kansas City Airport[1, 5]	Missouri	....	T.	T.	....	.89	T.	T.	T.	.20	.17	.01	....	....	.27	1.03	....	....	....	....	....	....	1.97	....	....	....	....	....	T	....	.03	....	4.57
Kansas City University	do	....	....	....	....	.14	.84	.04	....	.18	.02	.16	....	....	.09	1.24	....	....	....	....	....	....	1.30	.67	....	....	....	....	T.	....	T.	....	4.68
Kidder[2]	Grand	....	....	....	....	....	.80	....	....	....	.13	.21	....	....	....	.59	....	....	....	....	....	....	....	.37	....	....	....	....	....	T.	....	....	2.10
King City	Missouri	....	....	....	....	....	....	....	....	*	.28	....	....	....	.53	....	....	....	....	....	....	....	.14	....	....	....	....	....	....	....	....	....	0.95
Kirksville	Mississippi	....	....	....	....	.70	.03	T.	....	....	.06	.42	....	....	.30	.80	....	....	....	....	....	....	....	.40	....	....	....	....	.01	....	T.	....	2.72
Knoxville[3]	Missouri	....	....	....	....	.54	T.	T	.01	.24	.11	T.	....	....	.73	.54	....	....	....	....	....	....	1.58	T.	....	....	....	....	.06	....	.18	....	3.99
LaBelle[2]	Mississippi	....	....	....	....	....	.80	....	....	....	.02	.65	.12	....	....	.85	....	....	....	....	....	....	....	.75	....	....	....	....	....	....	....	....	3.19
Lawson	Missouri	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Linneus	Grand	....	....	....	....	*	.50	....	....	....	.10	.28	....	....	*	.70	....	....	....	....	....	....	*	.78	....	....	....	....	....	....	....	....	2.36
Louisiana (A)	Mississippi	....	....	....	....	.01	.10	....	....	....	....	.26	....	....	.05	.10	....	....	....	....	....	....	T.	.21	....	....	....	....	.53	....	.22	....	1.48
Louisiana[2] (B)	do	....	....	....	....	....	.10	....	....	....	.03	.23	.08	....	.02	.12	.04	....	....	....	....	....	....	.21	....	....	....	....	.76	.16	....	....	1.75
Lucerne[2]	Grand	....	....	....	....	....	.68	....	....	....	.56	....	....	....	....	*	.25	....	....	....	....	....	....	.37	....	....	....	....	....	....	....	....	1.86
Macon[2]	Chariton	....	....	....	....	....	.57	....	.15	....	.13	.27	....	....	....	.35	....	....	....	....	....	....	....	.84	....	....	....	....	....	....	.01	....	2.32
Madison[2]	Mississippi	....	....	....	....	....	.48	....	....	....	.08	.15	....	....	....	.55	....	....	....	....	....	....	....	.88	....	....	....	....	....	.08	....	....	2.22
Martinsburg[2]	Missouri	....	....	....	....	....	.42	....	.01	....	.01	.10	T.	....	....	.26	.22	....	....	....	....	....	....	.52	....	....	....	....	.01	.06	.08	....	1.69
Maryville	do	....	....	....	....	.32	....	....	T.	.05	.07	.35	....	....	T.	.07	....	....	....	....	....	....	....	.27	....	....	....	T.	....	....	T.	....	1.13
Memphis[2]	Mississippi	....	....	....	....	....	.45	....	.54	....	.06	.02	....	....	....	.57	....	....	....	....	....	....	....	.19	....	....	....	....	.10	T.	....	....	1.93
Mexico[2]	do	....	....	....	....	....	.49	....	....	....	....	.17	....	....	....	.39	.15	....	....	....	....	....	....	.66	....	....	....	....	....	.14	.11	....	2.11
Milan[2]	Grand	....	....	....	....	....	.84	....	....	....	.04	.53	....	....	....	1.23	....	....	....	....	....	....	....	.12	....	....	....	....	....	....	....	....	2.76
Moberly[2] 3½ mi. NE	Mississippi	....	....	....	....	....	.54	....	....	....	.12	.36	....	....	....	.67	....	....	....	....	....	....	....	.94	....	....	....	....	....	.10	.13	....	2.86
Monroe City	do	....	....	....	....	.07	.28	....	....	....	.06	.24	....	....	....	.24	....	....	....	....	....	....	T.	.84	....	....	....	....	.59	....	.07	....	2.39
New Florence[3, 5] 1 mi SE	Missouri	....	....	....	....	.25	....	.10	....	.04	T.	.06	....	....	T.	.56	....	....	....	....	....	....	T.	.67	....	....	....	T.	.26	....	.73	....	2.67
Oregon	do	....	....	....	....	.31	....	....	....	.15	.22	....	....	....	.04	.17	....	....	....	....	....	....	*	.12	....	....	....	....	....	....	....	....	1.01
Palmyra	Mississippi	....	....	....	....	....	.37	....	.67	....	.03	.31	....	....	....	.68	....	....	....	....	....	....	....	.14	....	....	....	....	....	.15	....	....	2.35
Paris[2]	do	....	....	....	....	....	.40	....	.01	....	.04	.09	T.	....	....	.47	....	....	....	....	....	....	....	.71	....	....	....	....	.21	.06	T.	....	1.99
Perry 1 mile E	do	....	....	....	....	....	.20	....	....	....	....	.22	....	....	....	.20	....	....	....	....	....	....	.05	.60	....	....	....	....	.20	....	.10	....	1.57
Philadelphia	do	....	....	....	....	.20	.20	.80	....	T.	....	.50	....	....	....	.82	....	....	....	....	....	....	....	.90	....	....	....	....	.16	....	.15	....	3.73
St. Charles[2] (A)	Missouri	....	....	....	....	....	.03	....	T.	....	.05	.10	T.	....	....	.30	.37	....	....	....	....	....	.40	.19	....	....	....	....	.18	.01	.25	....	1.88
St. Charles[2] (B)	do	....	....	....	....	....	.08	....	T.	....	.12	.10	T.	....	....	.27	.41	....	....	....	....	....	....	.18	.17	....	....	....	.16	T	.16	....	1.65
St. Joseph[1, 5]	do	....	....	T.	....	.48	....	....	T.	.38	.23	.01	....	....	.44	.10	....	....	....	....	....	....	.13	....	....	....	....	....	T.	....	.02	....	1.79
Saverton, Lock No. 22[2]	Mississippi	....	....	....	....	....	.27	....	T.	....	T	.30	.04	....	T.	.29	....	....	....	....	....	....	....	.69	....	....	....	....	.49	.12	....	....	2.20
Shelbina	do	....	....	....	....	*	.47	....	.57	....	.08	.42	....	....	.05	.16	....	....	....	....	....	....	.07	.77	....	....	....	T.	.31	....	T.	....	2.90
Shelbyville[2]	do	....	....	....	....	....	.53	....	1.03	....	....	.51	....	....	....	.48	....	....	....	....	....	....	....	.83	....	....	....	....	....	.17	....	....	3.55
Steffenville	do	....	....	....	....	.19	.26	....	.06	....	.04	.71	....	....	.07	1.04	....	....	....	....	....	....	.03	.63	....	....	....	....	.04	....	T.	....	3.07
Tarkio[3]	Missouri	....	....	T.	....	.03	T.	T.	....	T.	.21	.07	....	....	.05	....	....	....	....	....	....	....	.08	....	....	....	....	T.	....	....	....	....	0.44
Trenton[2]	Grand	....	....	....	....	....	.45	....	T.	....	.03	.12	....	....	.02	.55	....	....	....	....	....	....	....	.18	....	....	....	....	....	....	....	....	1.35
Troy[2]	Mississippi	....	....	....	....	....	.11	....	....	....	....	.10	.01	....	....	.10	.20	....	....	....	....	....	....	.40	.05	....	....	....	.20	.40	.10	....	1.67
Unionville[2]	Chariton	....	....	.18	....	....	.55	....	.28	....	.04	.50	T.	....	....	.20	....	....	....	....	....	....	....	.11	....	....	....	....	....	....	....	....	1.86
Vandalia	Mississippi	....	....	....	....	....	....	T.	....	....	....	.29	....	....	T.	.32	....	....	....	....	....	....	....	.42	....	....	....	....	....	....	.25	....	1.28
Warrenton	do	....	....	....	....	....	.16	.06	....	T.	....	.04	....	....	....	.63	....	....	....	....	....	....	T	.47	....	....	....	....	.26	.06	.62	....	2.30
Keokuk, Iowa[1]	do	....	....	T.	....	.33	....	.12	....	.03	.03	.59	....	....	.38	.24	....	....	....	T.	....	....	.25	.19	....	....	....	T.	T.	....	.05	....	2.21
Southwestern Division																																	
Altona[2]	Osage	....	....	....	....	....	.56	....	....	....	.17	.05	....	....	....	2.18	....	....	....	....	....	....	....	2.39	....	....	....	....	....	....	....	....	5.35
Anderson[2] 1½ mi. SW	Neosho	....	....	....	....	....	.42	.01	.55	....	.07	....	....	....	....	.01	.85	....	....	....	....	....	....	2.33	.72	....	....	....	....	1.11	.34	....	6.41
Appleton City	Osage	....	....	....	....	....	1.20	....	.07	.11	....	....	....	....	....	2.08	....	....	....	....	....	....	.35	.75	....	....	....	....	....	....	....	....	4.56
Ava Ranger Station[2]	White	....	....	....	....	....	.35	....	....	....	.05	....	....	....	.10	.55	....	....	....	....	....	....	....	.10	.92	....	....	....	....	.72	.12	....	2.91
Bolivar	Osage	....	....	....	....	T.	.69	....	....	.15	.03	.07	....	....	....	1.00	....	....	....	....	....	....	....	1.11	T.	....	....	T.	....	.49	.17	....	3.71
Boonville[2] (A)	Missouri	....	....	....	....	....	.54	.18	....	....	.05	.05	....	....	....	.51	.21	....	....	....	....	....	....	.62	....	....	....	....	.02	.10	.17	....	2.45
Boonville[2] (B)	do	....	....	....	....	....	.55	.18	T.	....	.02	.05	....	....	....	.35	.33	....	....	....	....	....	....	.57	....	....	....	....	.02	.08	.09	....	2.24
Bradleyville[2]	White	....	....	....	....	....	.30	.19	....	....	....	....	....	....	....	....	.92	....	....	....	....	....	....	.09	.92	....	....	....	....	.10	.84	....	3.36
Buffalo[2]	Osage	....	....	....	....	....	1.40	....	....	....	.20	.10	....	....	....	.75	.33	....	....	....	....	....	....	.61	.71	....	....	....	....	.25	.41	....	4.76
Butler	do	....	....	....	....	T.	.51	....	T.	.12	....	....	....	....	....	2.10	....	....	....	....	....	....	.80	1.38	....	....	....	....	....	....	....	....	4.91
Caplinger Mills[2]	do	....	....	....	....	....	1.21	....	....	.03	.50	.02	....	....	....	.77	.06	....	....	....	....	....	....	.62	.20	....	....	....	....	T.	.03	....	3.44
Carthage	Neosho	....	....	....	....	....	.07	....	....	.18	....	....	....	....	....	.89	....	....	....	....	....	....	.10	1.20	....	....	....	....	....	1.20	.40	....	4.04
Cassville[2]	White	....	....	....	....	....	.54	.23	....	....	.05	....	....	....	....	T.	.46	....	....	....	....	....	....	.38	1.42	....	....	....	....	.36	.50	....	3.94
Clinton[3]	Osage	....	....	....	....	1.09	....	....	T.	.06	....	....	....	....	T.	2.10	....	....	....	....	....	....	1.22	.25	....	....	....	T.	T.	....	T	....	4.72
Concordia	Missouri	....	....	....	....	*	.61	....	....	*	.19	.09	....	T.	T.	1.29	....	....	....	....	....	....	*	1.47	....	....	....	....	T.	....	.11	....	3.76
Crocker	Osage	....	....	....	....	....	.67	....	....	T.	.12	.33	....	....	....	1.27	....	....	....	....	....	....	....	.90	.08	....	....	....	....	.08	.89	....	4.34
Eldon	Missouri	....	....	....	....	....	.65	.01	.09	....	.32	T.	....	....	....	1.50	....	....	....	....	....	....	....	1.03	T.	....	....	....	....	....	.84	....	4.44
Eldorado Springs	Osage	....	....	....	....	T.	.99	....	.04	.37	....	T.	....	....	....	1.21	....	....	....	....	....	....	.10	.70	....	....	....	....	T.	....	T.	....	3.41
Elijah[2]	White	....	....	....	....	....	.38	....	....	....	.25	....	....	....	....	....	.70	....	....	....	....	....	....	....	1.10	.13	....	....	....	....	1.45	....	4.01
Forsyth[2]	do	....	....	....	....	....	.53	....	.05	....	T.	....	....	....	....	....	.58	....	....	....	....	....	....	.03	.84	....	....	....	....	.03	.51	....	2.57
Fort Leonard Wood[2]	Gasconade	....	....	....	....	....	.80	....	....	....	.18	.12	.02	....	....	1.75	....	....	....	....	....	....	....	1.38	....	....	....	.04	.03	.39	.84	....	5.55
Galena[2]	White	....	....	....	....	....	.52	....	.11	....	.06	....	....	....	....	....	.72	....	....	....	....	....	....	.11	.99	....	....	....	....	.16	.77	....	3.44
Granby[2]	do	....	....	....	....	....	.22	....	.07	....	T.	....	....	....	....	*	.46	....	....	....	....	....	T.	1.45	....	....	....	....	....	.89	.43	....	3.52
Hailey	do	.11	....	....	.19	....	....	.18	....	....	....	....	....	....	....	.47	....	....	....	....	....	....	....	1.55	.08	....	....	....	....	.36	.47	....	3.41
Harrisonville[2]	Osage	....	....	....	....	....	.75	....	....	....	.12	.12	....	....	....	1.70	.14	....	....	....	....	....	....	2.28	....	....	....	....	....	....	.03	....	5.14
Jefferson City (A)	Missouri	....	....	....	....	T.	.49	....	.18	.26	....	.07	T.	....	....	1.23	....	....	....	....	....	....	T.	.73	.01	....	....	....	....	.01	.93	....	3.91
Jefferson City[2] (B)	do	....	....	....	....	....	.58	T.	T.	.08	.26	.04	T.	....	....	.48	.65	T.	....	....	....	....	....	.69	.03	....	....	....	....	T.	.09	....	2.90
Joplin[1]	Neosho	....	....	....	....	....	.63	....	....	.07	....	....	....	....	....	.74	....	....	....	....	....	....	.07	1.03	....	....	....	....	2.46	....	.35	....	5.35
Lakeside[2, 5]	Osage	....	....	....	....	....	.70	....	....	.02	.16	T.	....	....	T.	.85	.39	....	....	....	....	....	....	.77	.38	....	....	....	....	.02	.14	....	3.43

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Stations	Drainage-basins	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	..	Total
Southwestern Division—	*Concluded*																																
Lamar[2]	Neosho	....	....	....	....	....	.16	....	....	....	.25	....	....	....	....	T.	.73	....	....	....	....	....	....	.55	.35	....	....	....	....	1.28	....	....	3.32
Lebanon[2]	Osage	....	....	....	....	....	1.71	....	....	....	.14	.27	....	....	....	.13	.74	....	....	....	....	....	....	.43	1.11	....	....	T.	....	.68	.48	....	5.69
Lexington[2]	Missouri	....	....	....	....	....	1.30	....	....	....	.17	....	....	....	....	.85	....	....	....	....	....	....	....	1.70	....	....	....	....	....	....	....	....	4.02
Lockwood	Osage	....	....	T.	....	T.	.17	....	....	.25	....	T.	....	....	....	.58	....	....	....	....	....	....	.04	1.06	....	....	....	T.	.03	.80	.53	....	3.46
Mansfield[2]	White	....	....	....	....	....	.26	....	.20	....	.16	....	....	....	....	....	.87	....	....	....	....	....	....	.02	.93	....	....	....	....	.28	1.15	....	3.87
Marshall	Missouri	....	....	....	....	.05	.06	T.	*.04*	T.	*.16*	*.14*	....	....	T.	.75	....	....	....	....	....	....	.38	1.03	....	....	....	....	.03	....	.12	....	§2.76
Marshfield[2]	White	....	....	....	....	....	.71	....	....	....	.18	.18	.01	....	....	....	1.05	....	....	....	....	....	....	.51	1.19	....	....	....	T.	.33	.15	....	4.31
Mountain Grove[2]	Gasconade	....	....	....	....	....	.67	....	.10	....	.18	....	....	....	....	....	.98	....	....	....	....	....	....	....	.74	.02	....	....	.03	.25	1.15	....	4.12
Mount Vernon[2]	Neosho	....	....	....	....	....	.22	....	.10	....	.10	....	....	....	....	....	1.05	....	....	....	....	....	....	1.01	.83	....	....	....	....	.75	.35	....	4.41
Neosho	do	....	....	....	....	....	.03	....	.43	.03	....	.04	....	....	....	.38	....	....	....	....	....	....	....	1.48	....	....	....	....	....	1.44	.51	....	4.34
Nevada	Osage	....	....	....	....	T.	.03	....	T.	.42	....	....	....	....	....	1.08	....	....	....	....	....	....	.29	.78	....	....	....	....	T.	.04	T.	....	2.64
Osceola[2]	do	....	....	....	....	....	1.15	....	....	T.	.20	....	....	....	....	2.00	.35	....	....	....	....	....	....	.60	.01	....	....	....	....	....	.03	....	4.34
Ozark[2]	White	....	....	....	....	....	.22	....	.05	....	.11	....	....	....	....	....	.93	....	....	....	....	....	....	.17	.68	....	....	....	....	.67	.36	....	3.19
Ozark Beach[2]	do	....	....	....	....	....	.39	....	.08	....	....	....	....	....	....	....	.66	....	....	....	....	....	....	.14	.73	....	....	....	....	.25	.44	....	2.69
Pierce City[2]	Neosho	....	....	....	....	....	1.06	....	.22	....	.13	.03	....	....	....	....	.54	....	....	....	....	....	....	1.30	.72	....	....	....	....	1.30	.93	....	6.23
Pineview Lookout[2]	White	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Pleasant Hill[2]	Osage	....	....	....	T.	....	.74	....	....	T.	.18	.06	T.	....	....	1.66	.20	....	....	....	....	....	....	2.33	....	....	....	....	....	.06	....	....	5.23
Roby	Gasconade	....	....	....	....	....	1.26	....	....	.06	.12	.10	....	....	....	.90	....	....	....	....	....	....	....	.90	.18	....	....	T.	....	.55	.53	....	4.60
St. Thomas[2]. 2¼mi SW	Osage	....	....	....	....	....	.57	....	....	.14	.24	.07	....	....	....	.87	.47	....	....	....	....	....	....	.80	*.35*	....	....	....	*T.*	*.01*	T.	....	§3.52
Saunders Lookout[2]	White	....	....	....	....	....	.22	....	.02	....	.08	T.	....	....	....	....	.72	....	....	....	....	....	....	*.10*	*.90*	....	....	....	....	*.15*	*.80*	....	§2.99
Sedalia	Missouri	....	....	....	....	....	.82	....	....	.06	.07	....	....	....	....	1.45	....	....	....	....	....	....	.14	.76	....	....	....	....	....	....	.24	....	3.54
Seligman[2]	Neosho	....	....	....	....	....	.40	....	.48	....	....	....	....	....	....	....	.89	....	....	....	....	....	....	.35	.70	....	....	....	....	.48	.29	....	3.59
Seymour[2]....3½ mi. NE	White	....	....	....	....	....	.52	....	.19	....	.09	.18	T.	....	....	T.	1.17	....	....	....	....	....	....	.10	1.37	....	....	....	.06	.25	.68	....	4.61
Shell Knob[2]...3 mi. SE	do	....	....	....	....	....	.14	....	.57	....	.07	....	....	....	....	.05	.48	....	....	....	....	....	....	.36	1.03	....	....	....	....	.37	.26	....	3.33
Siloam Sprgs Lookout[2]	do	....	....	....	....	....	.17	....	....	.16	....	....	....	....	....	....	.81	....	....	....	....	....	....	....	1.31	.05	....	....	....	....	.90	....	3.40
Springfield[1,5]. 4 mi. NW	do	....	....	....	....	.37	.01	....	T.	.11	.01	T.	....	....	....	.98	....	....	....	....	....	....	.01	1.45	....	....	....	T.	.36	.05	.65	....	4.00
Stover[2]	Missouri	....	....	....	....	....	.83	....	....	....	....	.26	....	....	....	1.71	.06	....	....	....	....	....	....	.68	....	....	....	....	....	....	.30	....	3.84
Sugar Camp Lookout[2]	White	....	....	....	....	....	.52	....	.44	....	.06	....	....	....	....	.31	.72	....	....	....	....	....	....	.31	1.22	....	....	....	....	....	.42	....	4.00
Sweet Springs	Missouri	....	....	....	....	.02	.58	....	....	.10	....	.02	....	....	.04	1.14	....	....	....	....	....	....	.52	.93	....	....	....	....	.05	....	.21	....	3.61
Tecumseh[2]...¼ mi. W	White	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Topaz[2]	do	....	....	....	....	....	.30	....	....	T.	....	.05	....	....	....	....	.83	....	....	....	....	....	....	....	.60	....	....	T.	....	....	1.79	....	3.57
Vanzant[2]....3¾ mi. SE	do	....	....	....	....	....	.38	....	.03	....	....	.07	....	....	....	....	.62	....	....	....	....	....	....	....	.74	....	....	....	....	.05	2.38	....	4.27
Warrensburg	Missouri	....	....	....	....	.05	.60	....	T.	.07	.05	....	....	....	.05	1.45	....	....	....	....	....	....	.58	1.37	....	....	....	....	T	.01	.03	....	4.26
Warsaw[2].........(A)	Osage	....	....	....	....	....	1.60	....	....	T.	.08	....	....	....	....	1.30	.40	....	....	....	....	....	....	.91	.02	....	....	....	....	T.	T.	....	4.31
Warsaw[2].........(B)	do	....	....	....	....	....	1.85	....	....	....	*.06*	....	....	....	....	*	1.74	....	....	....	....	....	....	....	*.92*	....	....	....	....	....	....	....	§4.57
Wasola[2]	White	....	....	....	....	....	.64	....	.20	....	....	....	....	....	....	....	.92	.30	....	....	....	....	....	....	1.01	....	....	....	....	....	.89	....	3.96
Waverly[2]	Missouri	....	....	....	....	....	.74	....	....	....	.15	.18	....	....	....	.60	.11	....	....	....	....	....	....	1.23	....	....	....	....	....	....	....	....	3.01
Wilderness Lookout[2]	White	....	....	....	....	....	.28	....	.67	....	.05	....	....	....	....	....	.59	....	....	....	....	....	....	.12	.96	.03	....	....	....	.20	.56	....	3.46
Southeastern Division																																	
Advance[3].....¼ mile W	St. Francis	....	....	....	....	.11	.42	T.	.15	.04	.04	.04	....	....	....	.54	T.	....	....	....	....	....	....	.75	1.08	....	....	T.	.03	.27	2.10	....	5.57
Alton(1)....10 miles SE	Black	....	....	....	....	....	.24	....	.25	.03	.58	....	....	....	....	.55	....	....	....	....	....	....	....	1.86	....	....	....	....	....	.30	1.20	....	5.01
Annapolis[2].....7 mi. W	do	....	....	....	....	....	.60	.01	.44	....	.18	....	....	....	....	.33	.85	....	....	....	....	....	....	....	.85	.05	....	....	.09	.39	.80	....	4.59
Arcadia[2]	St. Francis	....	....	....	....	....	.51	....	.25	....	.15	....	....	....	....	.10	.92	....	....	....	....	....	....	....	1.13	.03	....	....	....	.16	.50	....	3.75
Belleview[2]	Meramec	....	....	....	....	....	.42	.14	....	....	.15	....	....	....	....	.08	.76	....	....	....	....	....	....	....	.94	T.	....	....	.02	.23	.52	....	3.26
Bernie[2]	St. Francis	....	....	....	....	....	.50	....	.32	.23	.32	....	....	....	....	....	.21	....	....	....	....	....	....	....	1.61	.17	....	....	.25	....	1.21	....	4.82
Birch Tree[2]...½ mile E	Black	....	....	....	....	....	1.07	....	T.	....	....	....	....	....	....	T.	.76	....	....	....	....	....	....	T.	1.22	.03	....	....	T.	....	1.35	....	4.43
Black...... 9 miles NW	do	....	....	....	....	....	.70	.14	....	....	.16	....	....	....	....	1.00	....	....	....	....	....	....	....	.06	.53	....	....	....	.06	.81	1.61	....	5.07
Bloomfield[2]	St. Francis	....	....	....	....	....	.48	....	....	.03	.12	....	....	....	....	....	.48	.02	....	....	....	....	....	....	2.39	.26	....	....	.06	....	1.31	....	5.15
Bunker[2]... 4 miles NW	Black	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Campbell	St. Francis	....	....	....	....	....	.32	....	.07	.13	.21	....	....	....	....	.50	.03	....	....	....	....	....	....	T.	.61	....	....	....	.01	.10	.85	....	2.83
Cape Girardeau..(A)	Mississippi	....	....	....	....	....	.33	....	.09	.02	.02	....	....	....	....	.97	....	....	....	....	....	....	....	....	1.35	....	....	....	.17	.10	1.33	....	4.38
Cape Girardeau[2].(B)	do	....	....	....	....	....	.31	....	.07	T.	....	....	....	....	....	T.	.94	....	....	....	....	....	....	....	1.10	.11	....	....	.15	....	.18	....	2.86
Caruthersville[2]..(A)	do	....	....	....	....	....	*	.35	....	.37	.23	....	....	....	....	....	.59	T.	....	....	....	....	....	....	.42	.42	....	....	....	....	.25	....	2.63
Caruthersville[2]..(B)	do	....	....	....	....	....	.35	....	.13	.23	.20	....	....	....	....	....	.57	....	....	....	....	....	....	....	.54	.26	....	....	....	....	.27	....	2.55
Centerville(1)[2]	Black	....	....	....	....	....	.62	.01	.18	....	.15	....	....	....	....	.62	.81	....	....	....	....	....	....	.04	.75	.02	....	....	.04	.22	.91	....	4.37
Centerville(2)[2]	do	....	....	....	....	....	.65	T.	.16	....	.18	....	....	....	....	.30	.97	....	....	....	....	....	....	....	.82	.02	....	.02	....	.17	.84	....	4.13
Cook Station[2]	Meramec	....	....	....	....	....	52	.16	....	....	....	.20	....	....	....	1.03	....	....	....	....	....	....	.12	*	.50	....	....	....	....	.10	.66	....	3.29
Crane Mountain[2]	St. Francis	....	....	....	....	....	.48	.01	.25	....	.18	....	....	....	....	.94	.72	....	....	....	....	....	....	....	.87	....	....	....	.06	.09	.51	....	4.11
Crystal City	Mississippi	....	....	....	....	....	.25	.09	T.	.02	.10	.06	....	....	....	.85	....	....	....	....	....	....	....	.39	....	....	....	....	.25	....	.93	....	2.94
Cuba	Meramec	....	....	....	....	....	.55	.10	.05	....	.15	.05	....	....	....	.92	....	....	....	....	....	....	....	.40	.16	....	....	....	....	.16	1.05	....	3.59
Deering[2]	St. Francis	....	....	....	....	....	.30	....	T.	.25	.30	....	....	....	....	....	.60	....	....	....	....	....	....	....	.70	.40	....	....	....	....	.20	....	2.75
De Soto[2]	Mississippi	....	....	....	....	....	.37	....	.01	....	.09	.06	....	....	....	.22	.51	....	....	....	....	....	....	*	.56	....	....	....	.18	....	.18	....	2.18
Dexter[2]	St. Francis	....	....	....	....	....	.55	....	T.	.42	.30	....	....	....	....	....	.52	.06	....	....	....	....	....	....	1.34	.31	....	....	.06	....	1.26	....	4.82
Doniphan(1)	Black	....	....	....	....	....	.37	.08	.12	.12	.53	....	....	....	....	.59	....	....	....	....	....	....	....	.19	.65	....	....	....	....	.12	2.40	....	5.17
Doniphan(2)[2]	do	....	....	....	....	....	.33	....	.25	....	.61	....	....	....	....	....	.64	....	....	....	....	....	....	....	.53	.21	....	....	....	....	.53	....	3.10
East End[2]	Meramec	....	....	....	....	....	.58	....	.23	....	.21	.03	....	....	....	.24	.48	....	....	....	....	....	....	....	.63	....	....	....	....	.18	.60	....	3.18
Eastwood Lookout[2]	Black	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Ellington[2]	do	....	....	....	....	....	.74	....	.06	....	.10	....	....	....	....	.05	.55	....	....	....	....	....	....	....	.81	.09	....	....	.10	.50	1.22	....	4.22
Ellsinore Lookout[2]	do	....	....	....	....	....	.42	....	....	.38	.06	....	....	....	....	....	.65	....	....	....	....	....	....	....	1.65	....	....	....	.14	....	1.30	....	4.60
Farmington[2]	St. Francis	....	....	....	....	....	.37	....	.64	....	.08	....	....	....	....	.02	.87	....	....	....	....	....	....	....	.97	.02	....	....	.25	.24	.21	....	3.67
Fisk[2]	do	....	....	....	....	....	.45	....	T.	.34	....	....	....	....	....	....	.54	....	....	....	....	....	....	....	1 55	....	....	....	....	....	1.27	....	4.15
Fredericktown[2]	do	....	....	....	....	....	.27	....	.22	....	.03	....	....	....	....	.22	1.08	....	....	....	....	....	....	....	.73	.05	....	....	T.	.10	.62	....	3.32
Gerald	Meramec	....	....	....	....	....	.60	.02	.06	*	.30	.05	....	....	....	1.32	....	....	....	....	....	....	....	.57	.04	....	....	....	.04	....	1.30	....	4.30
Greenville(1)‡	St. Francis	....	....	....	....	....	....	....	1.15	.10	.04	....	....	....	....	.64	T.	....	....	....	....	....	....	.86	.78	....	....	....	*	....	2.68	....	6.25
Greenville[2](2)	do	....	....	....	....	....	.67	....	.09	.05	.05	.02	....	....	....	.12	.64	....	....	....	....	....	....	....	2.52	.11	....	....	.02	....	.76	....	5.05
High Lookout[2]	Black	....	....	....	....	....	.79	.02	....	.02	....	....	....	....	....	....	.88	....	....	....	....	....	....	....	1.50	....	....	....	.03	....	1.37	....	4.61
Jackson	Mississippi	....	....	....	....	....	.29	.05	.08	....	.06	.01	....	....	....	1.06	....	....	....	....	....	....	....	.20	1.06	....	....	....	.10	.38	1.60	....	4.89
Jefferson Barracks[2]	Mississippi	....	....	....	....	....	.10	....	.12	.03	.06	.07	....	....	....	.35	.53	....	....	....	....	....	....	.12	.12	....	....	....	.38	....	.19	....	2.07
Jerome[2]	Gasconade	....	....	....	....	....	.72	....	....	....	.24	....	....	....	....	.42	.36	....	....	....	....	....	....	.24	.42	....	....	....	....	.12	.22	....	2.74
Koshkonong[2]	Black	....	....	....	....	....	.28	....	.02	.23	.60	....	....	....	....	.02	.71	.01	....	....	....	....	....	.05	1.65	.18	....	....	....	....	.85	....	4.60
Leeper[2]	do	....	....	....	....	....	.65	....	T.	T.	.02	....	....	....	....	.01	.60	....	....	....	....	....	....	....	.88	.03	....	....	.06	.09	.73	....	3.07
Licking[2]	Gasconade	....	....	....	....	....	.66	....	....	....	.24	.10	....	....	....	.02	.93	....	....	....	....	....	....	....	1.27	.03	....	....	....	.34	1.25	....	4.84
Macedonia Lookout[2]	Black	....	....	....	....	....	.61	.02	.03	.30	.32	....	....	....	....	....	.66	....	....	....	....	....	....	....	1.08	.05	....	....	.04	....	.78	....	3.89
Marble Hill	Mississippi	....	....	....	....	....	.29	.21	.33	....	.09	....	....	....	....	1.03	....	....	....	....	....	....	....	....	1.89	....	....	....	.11	.34	1.49	....	5.78
Meramec Park[2]	Meramec	....	....	....	....	....	.56	.02	T.	.02	.17	....	....	....	....	.35	.60	....	....	....	....	....	....	.26	.28	....	....	....	.06	.01	.24	....	2.57
Morehouse	Mississippi	....	....	....	....	....	.46	....	T.	.16	.21	....	....	....	....	.41	.09	....	....	....	....	....	....	.46	2.05	.01	....	....	.02	.41	1.38	....	5.66
Moselle[2]	Meramec	....	....	....	....	....	.45	....	.02	.05	.20	.08	....	....	....	.80	.75	....	....	....	....	....	....	.47	.20	....	....	....	.26	.03	.35	....	3.66
New Madrid[2]	Mississippi	....	....	....	....	....	.40	....	.15	.16	.34	....	....	....	....	T.	.45	.05	....	....	....	....	....	....	.42	.19	....	....	T.	....	1.45	....	3.61
Oates Tower[2]	Black	....	....	....	....	....	.69	T.	.19	....	.12	....	....	....	....	.23	1.17	....	....	....	....	....	....	....	.66	.02	....	....	.04	.18	.71	....	4.01
Owensville[2]	Gasconade	....	....	....	....	....	.76	....	.04	.06	.26	....	....	....	....	.65	.60	....	....	....	....	....	....	.36	.27	....	....	....	*	.41	.96	....	4.37
Pacific[2]	Meramec	....	....	....	....	....	*.25*	....	*T.*	....	....	*.08*	....	....	....	.39	*.67*	....	....	....	....	....	....	*	.90	....	....	....	*.28*	....	.33	....	§2.90
Parma[2]	St. Francis	....	....	....	....	....	.25	....	.12	.52	.28	....	....	....	....	T.	.54	....	....	....	....	....	....	....	.40	.24	....	....	.07	....	1.09	....	3.51
Perryville	Mississippi	....	....	....	....	....	.24	.32	....	.09	....	T.	....	....	....	.82	....	....	....	....	....	....	....	*	.65	....	....	....	T.	.51	1.95	....	4.58
Pilot Knob[2]... 2 mi. NE	St. Francis	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Poplar Bluff[2]	Black	....	....	....	....	....	.53	....	.02	.30	.46	....	....	....	....	....	.49	....	....	....	....	....	....	....	1.45	.17	....	....	.01	....	.87	....	4.30
Puxico[2]	St. Francis	....	....	....	....	....	.59	....	....	.01	.18	....	....	....	....	....	.59	....	....	....	....	....	....	....	1.68	.30	....	....	....	....	.56	....	3.91
Qulin[2]	do	....	....	....	....	....	.34	....	.03	.14	.25	....	....	....	....	....	.58	.02	....	....	....	....	....	....	1.18	.11	....	.02	....	....	1.22	....	3.89
Reynolds[2]	Black	....	....	....	....	....	.77	.40	.17	....	.22	....	....	....	....	.22	.72	....	....	....	....	....	....	....	.61	.04	....	....	....	.22	.80	....	4.17
Richwoods[2]	Meramec	....	....	....	....	....	.43	....	....	....	.15	....	....	....	....	*	.76	....	....	....	....	....	....	.16	.26	....	....	....	.01	....	.20	....	1.97
Rolla[2]	do	....	....	....	....	....	.55	T.	....	....	.13	.07	....	....	....	.70	.27	....	....	....	....	....	....	.25	.55	....	....	....	....	.20	.50	....	3.22
Round Spring[2]	Black	....	....	....	....	....	.66	.06	.25	....	.23	....	....	....	....	.15	.71	....	....	....	....	....	....	....	....	.44	....	....	....	....	1.44	....	3.94

Continued on next page

Daily Precipitation for April 1946–Continued from preceding page

Stations	Drainage-basins	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	..	Total
Southeastern Division – Concluded																																	
St. Louis:																																	
City Office[1], [5]	Mississippi	....	....	T.	....	.09	T.	T.	.02	.05	T.	.12	....	T.	T.	.79	....	....	....	....	....	....	....	.19	....	....	....	T.	.18	....	1.41	....	2.85
Airport[3], [5]	Missouri	....	....	T.	....	.05	T.	T.	T.	.05	T.	.14	....	T.	....	.73	....	....	....	....	....	....	....	.35	....	....	....	T.	.21	....	.87	....	2.40
St. Louis Univ.[1], [5]	Mississippi	T.	....	....	....	.08	....	T.	.02	.05	....	.16	....	....	....	.89	....	....	....	....	....	....	....	.33	T.	....	....	....	.20	....	1.89	....	3.62
Washington Univ.[2]	....do	....	....	....	....	....	.09	....	....	.01	.02	.14	....	....	....	.30	.63	....	....	....	....	....	....	.24	.16	....	....	....	.15	....	.22	....	1.96
Salem	Meramec	....	....	....	....	....	.72	.05	.06	....	.15	.08	....	....	....	.23	.98	....	....	....	....	....	....	....	.76	....	....	....	.03	.22	1.17	....	4.45
Sikeston[2]	Mississippi	....	....	....	....	....	.39	....	....	.04	.13	....	....	....	....	....	.54	....	....	....	....	....	....	....	2.06	.37	....	....	.08	....	1.76	....	5.37
Steelville[2] ...2½ mi. NE	Meramec	....	....	....	....	....	.50	.12	....	....	.10	....	.01	....	....	*	.97	....	....	....	....	....	....	*	1.15	....	....	....	....	.10	.68	....	3.63
Summersville[2]	Black	....	....	....	....	....	1.32	T.	.25	T.	.20	....	....	....	....	....	.55	....	....	....	....	....	....	....	1.10	.05	....	....	T.	....	2.11	....	5.58
Union[2] ....1½ mi. SE	Meramec	....	....	....	....	....	.49	....	.02	.05	.18	.04	....	....	....	.29	.72	....	....	....	....	....	....	.16	.21	....	....	....	.39	.01	.12	....	2.68
Valley Park[2]	....do	....	....	....	....	....	.17	....	....	T.	T.	.08	....	....	....	.25	.66	....	....	....	....	....	....	.33	.18	....	....	....	.30	....	.03	....	2.00
Van Buren[2]	Black	....	....	....	....	....	.91	....	....	T.	.12	....	....	....	....	T.	.73	....	....	....	....	....	....	....	1.34	.06	....	....	T.	....	.50	....	3.66
Vichy[3] ..... 2 miles NW	Meramec	....	....	....	....	.60	T.	.09	.01	.14	T.	.04	....	....	....	.92	....	....	....	....	....	....	....	.80	....	....	....	....	.06	T.	1.01	....	3.67
Wappapello Dam[2]	St. Francis	....	....	....	....	....	.61	T.	.01	.03	.11	T.	....	....	....	.08	.46	....	....	....	....	....	....	....	1.58	.09	....	....	.08	....	1.32	....	4.37
Webster Groves	Mississippi	....	....	....	....	....	.35	....	.01	.01	.04	.10	T.	....	....	.78	....	....	....	....	....	....	....	.32	.05	....	....	....	.30	T.	.85	....	2.81
Weingarten	....do	....	....	....	....	....	.38	.30	....	....	....	....	....	....	....	.75	....	....	....	....	....	....	....	.60	.58	....	....	....	....	.45	1.30	....	4.36
West Plains[3]	Black	....	....	....	....	.09	.10	....	.36	.13	T.	....	....	....	....	.65	.08	....	....	....	....	....	....	1.57	.51	....	....	.01	....	.40	.99	....	4.89
Williamsville[2]	....do	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Willow Springs[2] 500 ft E	White	....	....	....	....	....	.48	....	....	.10	.02	....	....	....	....	....	.85	....	....	....	....	....	....	....	.74	....	....	*T.*	....	....	1.10	....	3.29
Winona Ranger Sta.[2]	Black	....	....	....	....	....	1.06	.02	....	.03	.04	....	....	....	....	.30	.50	....	....	....	....	....	....	....	1.15	.05	....	....	.06	....	.90	....	4.11
Zalma[2]	Mississippi	....	....	....	....	....	.51	....	.20	.15	.05	T.	....	....	....	....	.58	....	....	....	....	....	....	....	2.18	.08	....	....	.03	....	.83	....	4.61
Cairo, Ill.[1], [5]	....do	....	....	....	....	.02	.39	.43	.06	.03	.08	....	....	....	....	.51	.02	....	....	....	....	....	....	.27	.83	....	....	....	.01	.75	1.21	....	4.61
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
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Except as otherwise indicated, amounts are for 24 hours ending late in afternoon. [1] Midnight to midnight. [2] Measured in the morning; for the preceding 24 hours. [3] Data for 24 hours ending 12:30 A. M. (C. S. T.) of following day. [5] Recording gage. T. Trace or 0.005 inch or less. * Included in next measurement. // Wind-shield on gage. Italics data interpolated. § Partly interpolated. (A) Record from cooperative station gage. (B) Record from river station gage. † Received too late to be included in means and extremes.

Daily Evaporation (inches), Mean Temperature (F°), and Wind Movement (miles) for April 1946

(See precipitation data in daily precipitation table)

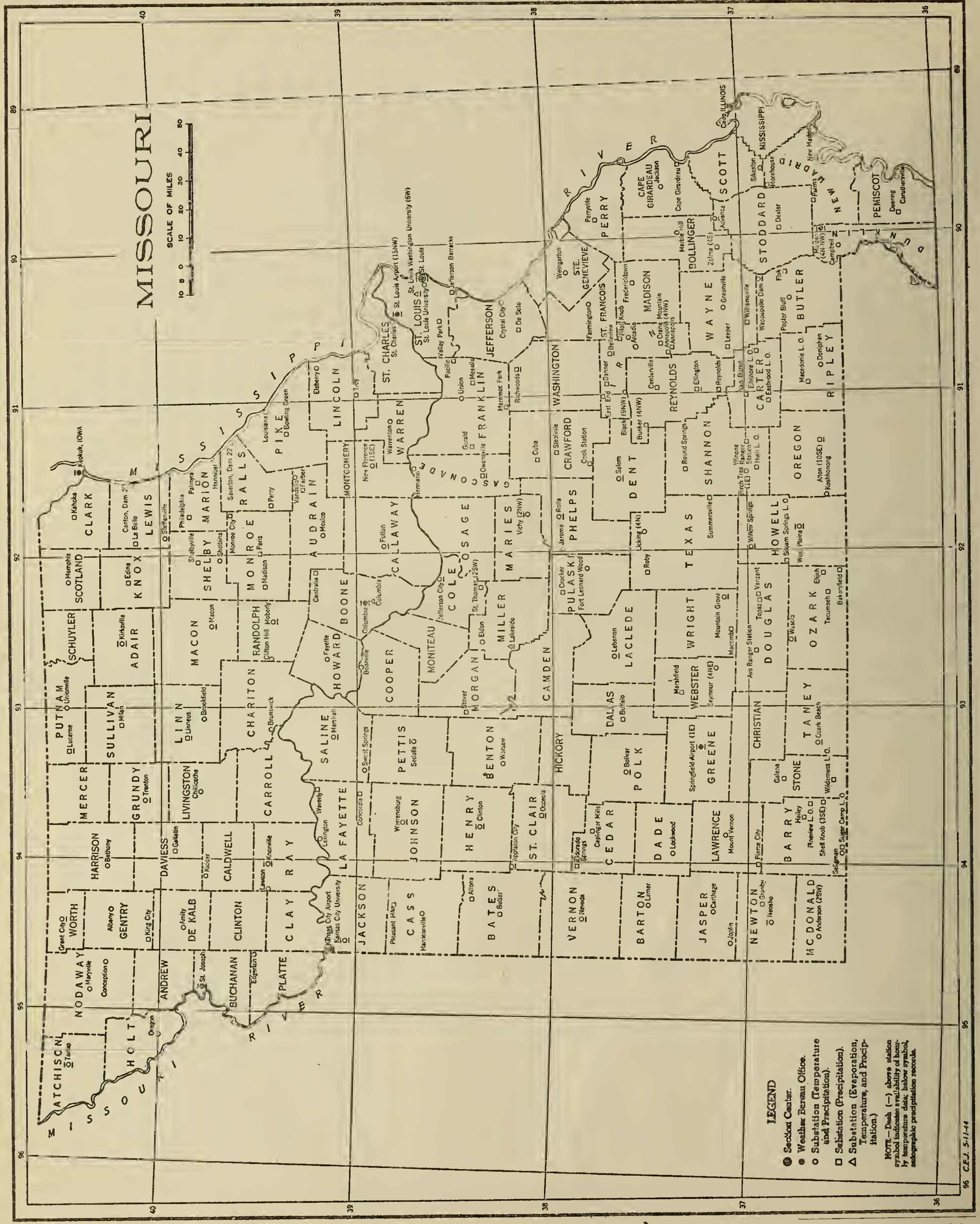
Station	Data	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	..	Monthly
Columbia (Univ. of Mo. Hort. Exp. Sta. 9 mi. WNW.)	Evaporation	.130	.201	.200	.310	.103	.097	.094	.149	.157	.063	.051	.086	.172	.132	.080	.156	.154	.168	.288	.212	.214	.137	.079	.112	.272	.260	.157	.088	.133	.011	....	4.466
	Mean temperature	76	70	71	60	53	58	62	60	47	50	47	44	53	63	60	48	50	60	64	64	66	66	62	58	60	55	50	60	58	59	..	58.5
	Wind movement	230	73	158	191	38	59	116	93	109	75	112	33	81	102	61	69	39	29	67	27	52	55	37	13	59	69	36	67	25	57	..	2,232
Lakeside (Osage Dam)	Evaporation	....	.191	.260	.446	.264	.222	.065	....	.123	.092	.163	.083	.148	.244	.157	.082	.205	.174	.209	.267	.232	.205	.091	.028	.148	.275	.289	.233	.192	.175	....	5.649
	Mean temperature	74	70	69	62	60	58	64	58	50	56	50	48	56	65	56	52	54	60	64	66	64	66	65	60	62	56	53	66	64	61	..	60.2
	Wind movement	..	38	73	172	80	87	96	42	47	62	96	83	17	79	65	24	62	11	12	38	14	29	30	12	25	50	52	81	62	61	..	1,600
St. Louis (Washington University)	Evaporation	.165	.190	.207	.285	.202	.113	.139	.061	.125	.126	.109	.017	.123	.190	.183	.089	.147	.117	.167	.204	.192	.178	.172	.032	.145	.238	.165	.054	.244	.084	....	4.463
	Mean temperature	72	77	72	58	56	60	58	58	50	50	43	46	56	62	56	48	52	60	68	66	68	72	63	63	60	54	52	64	57	60	..	59.4
	Wind movement	60	45	44	72	52	32	55	35	89	58	53	58	31	44	50	55	37	18	25	24	26	19	23	21	24	63	46	27	47	23	..	1,256

Observations taken at 8:00 a. m. except at 5:00 p. m. at Columbia. For Lakeside and St. Louis (Washington University) descriptions see April 1932 and August 1938 reports, respectively. * Included in next measurement.

Daily Temperatures for April 1946

Stations		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	..	Mean
Northern Division																																	
Brunswick /	Maximum...	87	83	79	64	65	70	72	62	59	57	46	60	70	68	60	60	69	75	80	82	80	77	70	75	73	66	67	69	71	68	..	69.5
	Minimum ...	47	58	64	49	42	43	51	50	36	36	42	30	30	41	49	40	37	37	47	52	52	55	59	47	47	47	38	38	48	51	..	45.4
Chillicothe /	Maximum...	83	79	77	63	60	68	67	59	55	55	43	62	72	65	61	61	73	76	81	83	83	80	69	76	72	65	63	65	74	66	..	68.5
	Minimum ...	50	54	58	44	42	44	48	46	34	35	37	30	31	41	49	37	38	41	51	54	54	59	57	45	47	43	39	39	46	47	..	44.7
Columbia	Maximum...	88	85	80	65	71	71	74	63	59	60	50	58	71	75	61	59	69	76	82	82	82	80	66	74	73	67	67	75	70	64	..	70.6
	Minimum ...	65	64	55	46	44	49	51	46	40	43	35	31	43	55	48	41	35	48	54	52	58	62	52	47	49	45	36	53	50	54	..	48.4
Fayette	Maximum...	86	84	77	70	61	70	73	71	58	57	54	60	70	72	68	58	67	76	79	80	80	77	66	73	72	65	66	68	70	65	..	69.8
	Minimum ...	65	58	65	46	38	46	49	49	36	41	38	29	36	52	48	38	33	45	50	48	52	56	59	47	50	43	35	50	48	50	..	46.7
Grant City	Maximum...	80	72	72	62	56	60	55	53	54	49	47	60	73	66	56	61	72	69	76	79	78	77	69	76	72	64	60	69	70	68	..	65.8
	Minimum ...	65	56	55	39	39	44	47	44	33	40	35	33	41	53	45	35	41	48	51	51	54	56	54	46	54	42	38	47	42	49	..	45.9
Hannibal	Maximum...	84	81	80	63	65	62	61	62	57	54	54	58	72	67	62	57	69	72	80	76	82	79	67	74	70	62	63	64	62	64	..	67.4
	Minimum ...	66	57	54	44	41	47	41	44	35	44	32	31	41	52	45	37	46	50	49	54	50	60	56	56	52	42	39	48	45	48	..	46.9
Kansas City Airport.	Maximum...	86	85	77	69	66	67	79	59	52	55	49	63	74	64	62	61	72	79	83	84	80	76	69	76	74	67	68	68	71	64	..	70.0
	Minimum ...	66	64	55	48	51	51	54	45	40	44	40	33	48	58	47	41	43	54	58	60	62	62	54	47	54	50	50	53	47	52	..	51.0
Kirksville	Maximum...	81	79	77	62	59	61	58	57	54	51	49	59	69	67	60	58	69	71	76	75	79	78	68	76	71	67	66	64	69	64	..	66.5
	Minimum ...	63	56	52	41	38	48	44	45	34	36	33	31	41	52	48	36	38	51	50	54	51	61	57	49	51	43	38	42	49	46	..	45.9
Lawson	Maximum...	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
	Minimum ...	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
Louisiana	Maximum...	85	83	80	73	65	67	65	65	61	59	53	60	73	71	67	60	70	76	82	79	83	82	73	74	73	68	66	70	63	64	..	70.3
	Minimum ...	56	53	61	48	34	43	44	50	36	38	35	30	34	50	50	38	29	45	43	49	53	55	62	40	45	36	29	50	47	49	..	44.4
Macon /	Maximum...	83	81	77	62	62	68	62	61	57	55	39	58	70	66	62	61	68	75	78	79	80	77	70	75	71	65	65	69	70	67	..	67.8
	Minimum ...	54	53	55	44	36	42	46	45	34	36	37	30	32	47	48	37	39	42	48	52	52	57	57	49	51	45	36	40	46	47	..	44.6
Maryville	Maximum...	80	74	71	63	59	59	57	53	54	49	47	60	75	66	60	60	74	71	81	80	78	80	71	76	73	67	62	69	72	70	..	67.0
	Minimum ...	63	55	56	38	43	42	50	44	35	40	35	30	40	53	45	35	39	47	51	52	51	54	51	45	50	51	40	47	48	45	..	45.8
Mexico /	Maximum...	85	81	74	62	69	68	66	63	60	57	43	58	71	73	60	57	69	75	80	81	81	79	65	74	71	64	65	72	67	63	..	68.4
	Minimum ...	53	59	62	46	39	44	47	48	36	38	39	30	34	46	48	38	35	45	51	51	56	60	60	45	49	41	36	49	45	50	..	46.0
Moberly /	Maximum...	85	82	77	62	65	67	67	62	57	55	42	57	70	71	60	57	68	74	80	*80*	81	77	67	72	71	64	..	69	68	66	..	^{a}68.0
	Minimum ...	66	57	64	46	42	46	47	46	44	38	36	28	42	54	48	37	39	48	49	51	54	60	58	48	50	42	35	..	45	48	..	^{a}47.2
Oregon	Maximum...	85	77	73	66	60	64	63	55	55	51	49	62	75	63	61	63	72	74	81	83	75	75	72	79	76	69	67	68	74	70	..	68.6
	Minimum ...	67	57	59	42	48	45	52	46	34	40	38	33	47	57	48	37	42	47	51	58	59	58	53	47	52	45	43	47	48	45	..	48.2
St. Charles /	Maximum...	88	87	78	70	68	66	68	64	57	57	45	60	74	79	57	60	69	84	86	80	84	79	79	71	76	60	66	77	66	64	..	70.6
	Minimum ...	57	62	60	50	57	46	46	49	40	40	41	31	42	45	51	39	33	41	59	50	54	59	51	51	48	40	36	50	51	53	..	47.7
St. Joseph	Maximum...	80	78	71	65	59	63	66	57	53	53	46	62	75	63	62	63	72	75	82	83	79	77	70	78	76	69	67	68	73	67	..	68.4
	Minimum ...	63	56	52	45	49	48	52	43	36	43	39	33	49	53	46	40	44	51	59	60	61	60	52	45	54	49	48	50	47	48	..	49.2
Trenton	Maximum...	83	78	76	65	65	65	60	57	55	56	50	56	72	65	61	60	72	73	80	81	81	80	78	80	75	65	65	69	73	68	..	68.8
	Minimum ...	62	56	57	42	40	40	46	45	35	40	36	30	44	48	49	38	40	50	51	53	54	56	56	45	51	45	38	47	48	46	..	46.3
Unionville /	Maximum...	84	81	75	63	56	61	55	56	55	51	40	58	67	67	63	68	70	73	77	78	80	77	73	79	74	66	67	70	72	70	..	67.5
	Minimum ...	43	57	47	37	36	41	44	41	32	35	32	28	32	46	46	34	37	42	50	53	55	56	53	45	47	41	37	40	46	42	..	42.5
Warrenton	Maximum...	89	86	80	71	70	72	68	67	58	58	52	60	72	79	75	75	69	76	82	80	84	81	68	71	73	67	65	81	65	62	..	71.9
	Minimum ...	68	58	58	47	36	42	45	50	37	38	37	30	36	51	48	37	29	43	45	46	49	58	44	56	45	37	30	48	46	52	..	44.9
Keokuk, Iowa.	Maximum...	83	79	79	61	63	56	60	58	53	51	45	58	69	69	60	56	70	71	78	71	81	80	69	76	70	60	61	60	65	66	..	65.9
	Minimum ...	42	59	52	42	42	48	39	43	37	36	33	33	35	55	45	39	44	55	51	55	53	62	56	50	52	43	37	50	43	48	..	46.0
Southwestern Division																																	
Clinton	Maximum...	90	85	79	72	80	66	83	61	55	62	54	62	76	75	62	60	70	79	80	85	82	72	64	72	75	69	68	75	74	67	..	71.8
	Minimum ...	65	63	55	45	41	52	52	48	39	43	38	32	43	54	47	41	38	45	50	49	56	58	52	48	50	47	43	53	52	57	..	48.5
Eldon	Maximum...	88	85	78	72	78	73	76	72	58	61	56	60	72	75	75	59	70	78	80	82	80	77	66	68	74	68	69	80	72	64	..	72.2
	Minimum ...	71	63	63	47	44	52	52	52	39	45	41	31	40	51	47	39	35	46	51	52	55	57	59	48	52	47	39	50	52	57	..	49.2
Harrisonville /	Maximum...	90	86	78	73	71	61	83	63	55	53	51	62	73	73	61	59	70	76	79	80	79	73	66	73	75	69	66	71	73	66	..	70.3
	Minimum ...	52	62	63	43	44	49	50	48	36	40	42	29	33	45	44	36	33	41	48	50	54	55	48	45	48	48	44	49	47	51	..	45.9
Jefferson City	Maximum...	89	86	85	67	76	71	75	70	60	60	53	59	74	78	68	59	70	76	82	80	82	79	67	71	72	67	70	80	70	68	..	72.1
	Minimum ...	62	59	57	45	38	49	49	46	38	43	38	28	34	52	46	41	30	37	45	43	48	57	59	45	44	42	32	50	49	55	..	45.4
Joplin	Maximum...	90	85	77	73	80	75	84	71	60	62	54	63	73	77	69	62	71	77	79	81	79	75	65	69	74	70	74	79	70	69	..	72.9
	Minimum ...	75	73	63	51	52	63	65	53	48	51	46	38	49	59	49	44	40	48	57	58	59	61	56	53	52	52	51	63	62	64	..	55.2
Lamar /	Maximum...	90	85	77	75	80	69	80	65	59	61	53	61	74	77	60	62	68	77	78	80	80	73	63	70	73	70	65	80	73	69	..	71.6
	Minimum ...	62	69	66	43	43	46	54	53	43	43	42	31	31	44	58	41	33	37	43	48	49	55	56	50	46	45	45	47	58	58	..	48.0
Lebanon /	Maximum...	90	88	75	70	78	64	76	64	60	66	51	61	71	77	57	60	70	78	79	81	79	77	62	68	72	66	68	81	65	71	..	70.8
	Minimum ...	68	66	60	43	44	52	52	53	40	42	45	29	30	45	56	40	30	34	47	52	54	55	59	50	43	45	37	48	57	57	..	47.8
Lexington /	Maximum...	89	87	80	70	67	70	80	64	59	60	46	54	73	68	64	60	72	76	81	84	83	78	70	77	76	70	68	71	75	68	..	71.3
	Minimum ...	53	60	60	45	45	50	53	50	37	39	41	34	38	48	47	39	42	44	52	54	56	57	57	47	50	52	52	52	47	47	..	48.3
Marshall	Maximum...	87	83	80	73	70	69	75	61	58	59	58	59	71	72	66	59	68	74	82	80	80	78	72	71	73	70	65	67	70	69	..	70.6
	Minimum ...	69	61	62	45	44	48	51	50	36	42	39	31	43	56	47	40	40	47	51	55	58	58	59	59	52	46	39	49	47	50	..	49.1
Mountain Grove	Maximum...	90	90	84	71	75	73	77	75	63	66	64	61	69	74	72	62	68	79	80	80	81	76	73	68	75	69	65	83	79	66	..	73.6
	Minimum ...	58	54	56	47	44	52	56	56	43	45	43	31	38	47	48	45	31	46	53	53	56	57	59	51	45	45	38	50	58	57	..	48.7
Neosho	Maximum...	92	90	86	74	81	80	84	82	65	65	66	64	74	78	76	64	71	79	80	81	80	78	76	68	74	73	75	82	80	75	..	76.4
	Minimum ...	71	69	66	39	40	58	63	57	48	51	45	30	39	54	50	45	30	37	46	45	50	51	58	53	41	41	53	60	60	61	..	50.4
Nevada	Maximum...	92	87	80	75	82	74	84	80	61	63	60	66	75	79	73	64	73	82	80	82	81	74	64	74	77	71	68	81	77	72	..	75.0
	Minimum ...	71	69	67	40	46	46	58	53	41	46	45	30	43	56	48	42	34	43	51	47	53	55	60	50	46	47	44	54	55	59	..	50.0
Sedalia	Maximum...	86	84	78	73	76	67	80	76	57	60	57	59	72	74	71	57	68	76	77	82	80	75	65	71	72	69	67	72	72	69	..	71.4
	Minimum ...	70	61	67	46	44	51	53	49	39	43	40	28	43	54	48	39	37	45	52	54	58	56	59	44	49	44	40	52	47	48	..	48.7
Springfield . 4 mi. NW	Maximum...	92	89	75	70	80	70	83	66	60	63	53	59	73	79	64	60	69	79	80	79	79	78	63	66	72	67	62	82	69	68	..	71.6
	Minimum ...	62	68	58	45	45	57	61	48	44	47	40	31	41	50	48	42	35	43	49	50	56	58	53	49	46	45	43	52	59	59	..	49.5
Warrensburg	Maximum...	91	87	80	74	73	68	83	69	61	61	59	62	73	75	72	62	70	78	..	..	..	74	67	74	75	72	68	69	73	71	..	^{c}71.9
	Minimum ...	70	61	66	47	48	51	53	50	39	41	41	31	45	55	46	40	41	48	..	..	..	59	58	49	52	50	44	52	47	53	..	^{c}49.6
Southeastern Division																																	
Arcadia /	Maximum...	90	90	84	77	78	75	70	70	64	66	58	64	74	80	58	60	70	84	85	87	85	84	69	67	75	70	75	84	63	64	..	74.0
	Minimum ...	44	65	58	52	36	36	47	46	41	43	45	35	32	33	53	44	29	29	40	48	48	47	54	50	40	39	31	33	50	54	..	43.4
Birch Tree .. ½ mile E	Maximum...	91	89	84	67	77	73	78	76	65	..	..	65	..	..	63	60	69	80	82	84	82	80	76	64	74	..	69	82	..	65	..	^{f}74.8
	Minimum ...	47	52	*56*	44	36	57	37	56	47	..	..	34	..	..	49	33	30	34	41	42	41	51	50	51	41	..	33	52	51	50	..	^{e}44.6
Caruthersville	Maximum...	84	82	80	75	75	74	84	80	66	69	67	60	68	75	72	64	66	76	79	82	85	84	80	72	76	70	67	85	79	71	..	74.9
	Minimum ...	61	66	63	58	47	55	57	63	51	52	54	39	38	50	58	48	38	41	50	53	57	62	65	60	55	50	46	54	63	63	..	53.9
Crystal City	Maximum...	93	91	87	79	75	75	69	68	66	67	62	63	75	82	76	61	69	81	86	85	86	84	80	75	75	75	69	83	80	65	..	76.1
	Minimum ...	67	65	57	57	37	51	48	55	40	43	39	32	32	46	50	41	30	38	44	47	49	56	60	52	44	38	32	50	53	58	..	47.0
Doniphan	Maximum...	91	89	86	79	80	80	83	81	68	72	67	65	72	78	76	64	73	81	83	87	87	87	86	67	80	73	71	87	78	69	..	78.0
	Minimum ...	59	61	57	56	37	57	56	64	48	49	47	33	31	40	56	49	29	33	40	42	48	51	56	56	46	40	33	50	56	61	..	48.0
Farmington	Maximum...	91	88	82	73	75	72	65	68	60	62	57	59	71	78	69	56	62	80	83	82	83	81	74	66	71	66	69	81	78	63	..	72.2
	Minimum ...	65	66	56	51	38	51	47	55	40	43	37	34	34	50	51	42	31	42	48	51	49	55	58	50	43	39	32	48	53	56	..	47.2
Jackson	Maximum...	86	84	81	76	77	75	69	69	67	69	69	62	70	77	68	61	68	78	81	88	88	86	82	65	75	70	68	82	75	68	..	74.5
	Minimum ...	60	65	59	53	37	53	49	52	44	46	47	35	30	47	54	46	31	38	43	46	50	54	56	54	44	42	34	50	58	60	..	47.9
Poplar Bluff	Maximum...	86	83	82	80	76	76	80	79	67	72	68	66	68	76	71	65	71	77	81	86	86	84	82	65	78	72	70	83	81	69	..	76.0
	Minimum ...	59	66	59	56	41	54	52	64	47	48	49	36	34	41	59	48	35	38	44	46	51	56	59	56	50	46	38	51	61	61	..	50.2
Rolla /	Maximum...	91	89	78	69	77	66	72	65	60	65	52	62	64	78	55	58	69	78	83	82	81	78	62	68	72	67	70	84	67	67	..	71.0
	Minimum ...	66	65	59	48	43	50	50	51	40	43	46	31	38	50	48	42	35	45	52	52	54	55	60	51	48	45	38	50	53	56	..	48.8
St. Louis	Maximum...	91	89	83	64	69	70	67	63	60	61	50	59	72	79	65	58	67	77	85	80	83	83	71	72	71	62	66	77	63	63	..	70.7
	Minimum ...	67	70	62	53	50	53	48	49	42	41	37	35	44	50	50	42	42	51	54	60	57	66	58	57	56	50	44	48	51	57	..	51.5
Salem /	Maximum...	92	91	79	70	79	65	71	65	61	69	53	60	70	78	57	59	71	79	85	86	84	80	63	68	78	67	71	85	65	65	..	72.2
	Minimum ...	54	55	48	40	39	43	42	56	42	43	46	31	33	45	54	44	29	34	46	47	51	53	60	51	42	42	33	39	52	56	..	45.0
Sikeston /	Maximum...	86	86	81	75	76	70	73	65	64	70	67	61	71	78	65	60	68	79	82	87	88	88	84	58	77	69	68	83	79	70	..	74.3
	Minimum ...	56	62	60	54	43	54	52	57	46	49	49	35	35	48	60	46	34	40	53	55	55	61	63	56	49	43	37	49	55	61	..	50.6
Union ......1½ mi. SE	Maximum...	91	87	80	73	75	72	69	66	69	60	57	61	73	80	74	58	70	88	84	82	84	84	77	71	73	67	68	82	68	65	..	73.6
	Minimum ...	69	57	58	51	35	47	47	53	40	42	38	30	31	45	49	42	29	36	43	44	49	53	52	53	44	38	31	50	50	55	..	45.4
West Plains	Maximum...	90	90	81	72	77	80	80	67	60	69	60	63	71	77	64	63	71	80	82	82	81	80	76	61	76	72	66	83	69	64	..	73.6
	Minimum ...	54	56	58	44	36	54	57	55	46	47	42	30	31	37	51	39	30	33	40	43	48	51	55	46	42	42	34	49	57	59	..	45.5
Cairo, Ill..	Maximum...	84	84	80	74	75	73	71	71	64	69	67	60	70	76	64	58	68	80	82	85	85	86	82	61	76	67	68	84	77	72	..	73.8
	Minimum ...	65	68	65	56	48	55	55	57	49	51	41	38	41	53	55	46	41	45	52	55	58	65	61	57	53	48	42	53	62	62	..	53.2

/ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs. ^{a}, ^{b}, ^{c}, etc., number of days missing, for example, ^{b} indicates two days missing. Italics data interpolated. § Partly interpolated.


MISSOURI
SCALE OF MILES
10 5 0 10 20 30 40 50
LEGEND
● Section Center.
● Weather Bureau Office.
○ Substation (Temperature and Precipitation).
□ Substation (Precipitation).
△ Substation (Evaporation, Temperature, and Precipitation.)
NOTE.—Dash (—) above station symbol indicates availability of hourly temperature data; below symbol, autographic precipitation records.
C.E.J. 5-11-44
MISSISSIPPI RIVER
MISSOURI RIVER
GASCONADE R
ST. FRANCOIS R
ILLINOIS
Keokuk, IOWA
Cairo, ILLINOIS
ATCHISON
NODAWAY
WORTH
HARRISON
MERCER
PUTNAM
SCHUYLER
SCOTLAND
CLARK
HOLT
ANDREW
GENTRY
DAVIESS
GRUNDY
SULLIVAN
ADAIR
KNOX
LEWIS
BUCHANAN
DE KALB
CALDWELL
LIVINGSTON
LINN
MACON
SHELBY
MARION
PLATTE
CLINTON
CLAY
RAY
CARROLL
CHARITON
RANDOLPH
MONROE
RALLS
PIKE
AUDRAIN
LINCOLN
JACKSON
LA FAYETTE
SALINE
HOWARD
BOONE
CALLAWAY
MONTGOMERY
WARREN
ST. CHARLES
ST. LOUIS
CASS
JOHNSON
PETTIS
COOPER
MONITEAU
COLE
OSAGE
GASCONADE
FRANKLIN
JEFFERSON
BATES
HENRY
BENTON
MORGAN
MILLER
MARIES
CRAWFORD
WASHINGTON
STE. GENEVIEVE
PERRY
ST. CLAIR
HICKORY
CAMDEN
PULASKI
PHELPS
DENT
IRON
ST. FRANCOIS
MADISON
BOLLINGER
CAPE GIRARDEAU
VERNON
CEDAR
POLK
DALLAS
LACLEDE
TEXAS
SHANNON
REYNOLDS
WAYNE
STODDARD
SCOTT
MISSISSIPPI
BARTON
DADE
GREENE
WEBSTER
WRIGHT
CARTER
BUTLER
NEW MADRID
JASPER
LAWRENCE
CHRISTIAN
DOUGLAS
HOWELL
OREGON
RIPLEY
PEMISCOT
DUNKLIN
NEWTON
McDONALD
BARRY
STONE
TANEY
OZARK
St. Louis
Kansas City
Columbia
Springfield Airport
St. Joseph
Jefferson City
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505
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UNIVERSITY OF ILLINOIS

U. S. DEPARTMENT OF COMMERCE, WEATHER BUREAU

CLIMATOLOGICAL DATA

MISSOURI SECTION

H. F. WAHLGREN
ST. LOUIS, MO.

VOL. L — MAY 1946 — No. 5

PRICE: 5 CENTS A COPY; 25 CENTS A YEAR

GENERAL SUMMARY

May was a decidedly cool and wet month, this year, and not nearly as favorable for outdoor work and crop growth and development, excepting oats and grasses, as the two preceding months of the current growing season. At the beginning of May all field work and growing crops were about a month ahead of normal advancement, but by the close of the month much of this advancement had been overcome by the frequent rains and persistent cool weather.

It was the second consecutive month of its name with average temperature 3.0°, or more, below normal; however, last May averaged approximately 1.0° cooler than the current month. In the past 59 years only nine Mays have had a lower average temperature than the 61.4° for this month. Frost or freezing temperatures occurred on the 11th or 12th at numerous stations in the Northern Division of the State, and locally at two, or more, stations in each of the other two divisions. However, practically no damage resulted, although locally at Conception and Maryville the frosts were recorded as killing. The cool weather was persistent throughout the entire month, only a very few days averaging normal, or above. The sub-normal temperatures were general over the entire State, all reporting stations showing monthly averages of 2.0° to more than 5.0° lower than their respective normals. There were no unusual extremes of temperature recorded anywhere in the State, considering the month as a whole.

It was the wettest May since 1943 and the second wettest in the past eleven years, but there have been numerous months of same name that have had more rainfall than the current month. Precipitation was quite frequent during the month, measurable amounts occurring on an average of 14 days, for the State as a whole, while a few individual stations had measurable rain on as many as 20 days during May. The distribution of the month's rainfall was rather irregular, ranging from a total of 13.83 inches, at the wettest station, Crane Mountain, to only 2.82 inches at Edgerton, the station receiving the least monthly amount. The distribution by Divisions, with departures from normal, was as follows:—Northern Division, 5.05 inches, +0.39; Southwestern Division, 6.50 inches, +1.26; Southeastern Division, 9.09 inches, +4.51; for the State, 6.88 inches, +2.05. Heavy local showers caused rapid rises in some of the smaller streams of the State, resulting in overflows and considerable crop and property damage, but estimates on monetary losses are not yet available. One man was drowned on May 2d in a flash flood in Panther Creek, near Breckenridge, Mo., when his car was swept downstream as he attempted to cross the swollen stream, that overflowed the highway. Unofficial reports of 7 inches of rain in three hours, on the 2-3d, were reported from this vicinity. At Neosho an official measurement of 3.33 inches in one and one-half hours was reported on the 30th. Joplin reported 4.43 inches in 24 hours the same day. At Granby 5.50 inches fell in a 24-hour period on the 30th, while at Sikeston, 4.96 inches fell in a similar period on the 24-25th. Considerable damage resulted from flooding of the Black River at Poplar Bluff, on the 25th and 26th, and reports of flood damage at Newburg, Mo., Phelps County, on the 24th were received. There were only minor, local overflows in some of the larger streams and rivers of the State, but no flood stages were reached in either the Missouri or Meramec Rivers.

(Continued on page 35)

PRESSURE, WIND, HUMIDITY, AND SUNSHINE

Stations	Sea-level pressure, extremes-inches				Wind				Relative humidity				Percentage of sunshine	Degree days
	Highest	Date	Lowest	Date	Average hourly velocity	Maximum velocity ¶	Direction of maximum	Date	12:30 a. m.	6:30 a. m.	12:30 p. m.	6:30 p. m.		
Columbia	30.17*	7	29.59*	23	6.5	18	se.	15	83*	86*	61*	65*	49	144
K. C. Airport	30.23	7	29.40	23	9.9	32	s.	23	77	82	58	55	60	136
St. Joseph	30.24*	7	29.37*	23	8.1	30	sw.	23	84*	89*	62*	63*	51	171
St. Louis	30.14*	21	29.57*	17	11.5	33	sw.	24	82*	82	64	65*	54	112
Springfield	30.22	8	29.62	19	11.2	38	w.	2	88	90	65	67	70	151
Cairo, Ill.	30.19	22	29.55	17	7.5	33	se.	23	..	85	66	..	46	51
....	.....	..	.....	..	....	..	......	..	..	..	..	..	..	....

* Data for Airport station. ¶ For 5-minute period.

COMPARATIVE DATA FOR MAY

Year	Temperature			Precipitation					Number of days			
	Average for State	Highest	Lowest	Average for State	Average, Northern Division	Average, Southwestern Division	Average, Southeastern Division	Snowfall, Average for State	Precip. .01 inch or more	Clear	Partly cloudy	Cloudy
1888	62.1	93	30	4.98	6.23	4.73	3.98	....	5	..	..	..
1889	63.5	100	28	6.06	7.41	6.91	3.87	....	5	..	..	..
1890	62.8	97	26	3.65	2.91	4.62	3.43	....	6	..	..	..
1891	61.5	97	27	4.11	4.84	3.87	3.62	0	8	..	..	..
1892	60.7	91	28	9.04	8.72	10.11	8.28	0	17	5	9	17
1893	61.8	94	30	6.14	5.74	6.11	6.56	0	10	11	11	9
1894	63.7	96	29	4.31	2.60	5.18	5.14	0	8	13	11	7
1895	64.6	103	28	3.95	4.01	5.45	2.40	0	9	13	12	6
1896	70.1	96	37	9.17	9.00	10.29	8.22	0	12	12	12	7
1897	62.4	93	28	2.60	2.64	2.68	2.47	0	7	16	11	4
1898	65.2	97	31	7.68	8.36	7.81	6.88	0	14	12	10	9
1899	66.9	96	34	6.07	7.01	5.89	5.31	0	2	10	13	8
1900	66.3	97	29	3.63	3.80	3.00	4.09	0	10	14	11	6
1901	63.8	98	30	1.47	1.55	1.43	1.42	0	6	15	10	6
1902	69.4	98	39	4.82	5.31	5.65	3.51	0	11	13	11	7
1903	65.1	92	23	7.05	7.01	8.21	5.93	0	15	9	10	12
1904	63.1	95	32	4.74	5.46	5.40	3.35	0	12	13	10	8
1905	64.9	94	34	5.33	4.20	6.62	5.17	0	10	12	11	8
1906	66.3	98	27	2.45	2.08	3.02	2.25	0	7	15	10	6
1907	59.5	91	17	5.61	3.64	5.92	7.27	0.8	10	14	6	11
1908	66.1	96	24	6.91	8.16	6.77	5.79	0	12	12	10	9
1909	63.3	96	25	5.55	5.19	6.22	5.25	T.	9	15	9	7
1910	60.1	94	32	6.38	7.46	7.42	4.25	0	13	11	8	12
1911	68.8	101	27	1.46	2.45	1.10	0.84	0	5	19	7	5
1912	67.6	97	30	3.80	3.90	3.45	4.05	0	7	18	8	5
1913	65.8	101	33	2.79	3.82	3.16	1.40	0	8	16	7	8
1914	66.6	98	31	1.49	0.97	2.31	1.20	0	5	17	9	5
1915	63.7	97	30	7.72	8.34	8.11	6.70	0	12	12	7	12
1916	65.6	96	33	5.47	7.30	5.46	3.64	0	11	15	8	8
1917	58.7	91	30	4.28	4.14	5.38	3.32	0	10	15	7	9
1918	68.3	100	28	5.50	5.71	4.23	6.57	0	10	16	8	7
1919	62.0	93	35	5.74	5.65	5.96	5.61	0	13	10	10	11
1920	63.8	97	32	5.01	3.77	5.10	6.15	0	12	9	9	13
1921	66.4	102	28	3.68	3.80	3.68	3.55	0	7	17	8	6
1922	67.2	97	38	3.07	3.53	3.59	2.09	0	10	14	10	7
1923	62.7	97	25	4.68	2.45	4.40	7.18	T.	12	11	10	10
1924	58.6	96	31	4.71	3.18	5.13	5.83	0	10	13	8	10
1925	61.2	98	24	2.10	2.32	2.39	1.60	0	7	14	9	8
1926	67.0	100	29	2.78	2.42	3.34	2.58	0	7	16	9	6
1927	61.6	94	34	6.95	4.55	6.77	9.54	0	12	11	10	10
1928	65.8	95	29	2.87	2.05	3.16	3.41	0	8	16	9	6
1929	61.7	95	28	7.76	5.30	9.66	8.31	0.3	13	9	10	12
1930	64.7	95	33	3.33	3.22	3.78	2.98	0	9	16	8	7
1931	61.0	96	29	4.50	4.84	4 64	4.03	0	10	15	6	10
1932	66.1	98	31	1.80	2.44	2.03	0.93	0	6	18	9	4
1933	65.9	96	35	7.75	6.44	8.07	8.74	0	13	11	9	11
1934	69.0	110	31	1.93	1.82	2.42	1.56	0	5	21	7	3
1935	60.3	92	32	8.46	9.73	7.99	7.66	0	17	6	8	17
1936	68.8	95	32	2.52	3.07	2.95	1.54	0	7	17	10	4
1937	66.2	98	34	3.86	3.97	4.36	3.25	0	9	13	11	7
1938	65.0	94	32	6.13	5.32	7.75	5.31	0	13	9	12	10
1939	67.4	102	31	4.17	2.94	5.98	3.60	0	9	15	9	7
1940	62 7	95	30	2.44	2.44	2.40	2.48	0	8	16	9	6
1941	68.9	97	35	2.29	2.71	1.95	2.21	0	8	16	11	4
1942	63.8	97	29	5.31	5.09	5.37	5.47	0	10	11	11	9
1943	63.9	95	33	9.91	7.83	13.05	8.85	0	16	7	9	15
1944	68.4	99	27	4.44	4.29	4.12	4.91	0	12	10	13	8
1945	60.5	92	31	5.50	4.79	6.20	5.50	0	12	10	9	12
1946	61.4	87	30	6.88	5.05	6.50	9.09	0	14	10	9	12
....	....	..	..	....	....	....	....	....	..	..	..	..
....	....	..	..	....	....	....	....	....	..	..	..	..
Period	**64.5**	**110**	**17**	**4.83**	**4.66**	**5.24**	**4.58**	**T.**	**10**	**13**	**10**	**8**

Climatological Data for May 1946

Stations	Counties	Elevation, feet	Temperature, in degrees Fahr.							Precipitation, in inches						Number of days				Prevailing direction of wind	Observers
			Length of record, years	Mean	Departure from the normal	Highest	Date	Lowest	Date	Length of record, years	Total	Departure from the normal	Greatest in 24 hours [4]	Date	Total snowfall, unmelted	With precip., .01 inch or more	Clear	Partly cloudy	Cloudy		
Northern Division																					
Albany	Gentry	930	5	58.4	......	82	30	31	11	17	5.97	+3.29	2.75	3	0	12	5	18	8	n.	Curtis E. Grace
Amity	DeKalb	1,007	0	59.6	......	83	30	32	11	11	5.93	+0.68	2.14	16–17	0	13	7	10	14	nw.	O. M. Colhour
Bethany	Harrison	916	51	58.4	– 4.1	83	30	32	11†	53	4.76	+0.59	1.14	3	0	11	13	5	13	nw.	B. A. McGregor
Brookfield	Linn	767	5	61.0	......	87	30	33	11	5	4.85	......	1.20	17	0	11	16	10	5	s.	G. F. Breen
Brunswick	Chariton	652	65	60.0	– 4.2	84	31	37	11†	67	6.03	+1.42	1.35	2–3	0	14	13	6	12	nw.	O. K. Benecke
Canton, Lock & Dam 20	Lewis	488	8	59.2	......	82	24	35	11	16	3.95	–1.37	0.83	3–4	0	12	12	7	12	se.	Lockmaster
Chillicothe	Livingston	779	37	59.1	– 3.8	85	24	34	11†	40	3.95	–0.14	1.20	5–6	0	13	19	2	10	ne.	Wm. J. Olenhouse
Clifton Hill	Randolph	731	47	....	......	..	..	..	..	37	....	......	....	..	.	..	..	..	..	......	Dr. A J. Bradsher
Columbia	Boone	740	56	61.4	– 3.6	81	28	38	12	56	6.34	+1.88	1.83	9–10	0	17	8	14	9	s.	U. S. Weather Bureau
Conception	Nodaway	1,108	57	58.8	– 3.3	82	30	31	11	62	4.21	+0.15	1.16	2–3	0	11	10	9	12	se.	Fr. Adelhelm Hess
Edgerton	Platte	856	26	59.6	– 3.4	84	29	34	11	43	2.82	–1.38	0.85	3	0	7	12	9	10	se.	W. A. Foster
Elsberry	Lincoln	449	15	60.2	– 4.5	83	30	36	12	15	6.15	+2.83	1.00	3†	0	14	14	4	13	ne.	Soil Conservation Service
Fayette	Howard	760	66	60.6	– 3.2	84	24	37	11	63	3.63	–0.69	1.08	3	0	12	11	4	16	nw.	Irvin E. Schnell
Fulton	Callaway	818	58	60.8	– 3.8	82	15	39	12	54	5.58	+0.98	0.90	9–10	0	16	20	8	3	s.	Frank E. Hillgartner
Grant City	Worth	1,134	42	57.8	– 4.2	81	30	31	11	54	5.83	+1.60	1.59	2–3	0	11	5	18	8	n.	J. Homer Korn
Hannibal	Marion	759	54	59.8	– 3.8	83	24	38	11	62	5.18	+0.83	1.01	3	0	15	8	11	12	nw.	Hannibal Water Dept.
Kansas City Airport	Jackson	741	57	62.2	– 2.6	87	30	37	11	57	2.87	–1.07	1.35	10	0	10	9	10	12	nw.	U. S. Weather Bureau
Kansas City Univ.	Jackson	908	8	62.8	......	86	30	37	11	8	2.86	......	0.83	9–10	0	10	4	17	10	sw.	University of Kansas City
Kidder	Caldwell	1,020	54	58.2	– 4.4	83	30	30	11	58	7.32	+2.67	2.00	17	0	5	8	9	14	n.	Mrs. Geraldine Terry
Kirksville	Adair	969	57	59.3	– 3.0	81	30	34	11	64	4.61	–0.72	1.47	6–7	0	16	15	5	11	s.	Dr. Willis J. Bray
Knoxville	Ray	960	1	59.2	......	83	30	34	11	2	5.83	......	2.09	2	0	13	6	10	15	nw.	C. C. A. Station
Lawson	Ray	1,070	8	....	......	..	..	..	..	8	....	......	....	..	.	..	..	..	..	......	Elmer E. Lamb
Louisiana	Pike	469	52	61.3	– 2.4	82	30	37	12†	65	4.60	–0.10	0.78	3	0	20	10	10	11	n.	Stark Bro's Nurseries
Macon	Macon	875	47	59.6	– 3.9	82	28	35	11	53	4.27	–0.32	1.24	17	0	12	12	4	15	nw.	John W. Atwell
Maryville	Nodaway	1,169	56	58.1	– 3.2	80	18†	30	11	52	4.18	–0.47	1.02	16–17	0	14	7	5	19	se.	R. B. Montomery
Memphis	Scotland	787	7	58.1	......	83	27	33	11	16	4.06	+0.05	0.83	1–2	0	10	15	3	13	se.	John W. Alexander
Mexico	Audrain	800	57	60.2	– 3.8	82	24	39	11†	68	6.01	+1.41	1.38	2–3	0	16	6	7	18	sw.	Darrence W. Stuart
Moberly .....3½ mi. NE	Randolph	860	9	60.1[b]	......	84[b]	27	36[b]	11	9	3.32§	–0.65	0.64	9	0	12	12[a]	6[a]	12[a]	w.	F. W. Bell
New Florence. 1 mi SE	Montgomery	885	3	59.6	......	79	15	39	12	4	5.88	......	2.62	10	0	16	7	7	17	se.	U. S. Weather Bureau
Oregon	Holt	1,048	90	59.4	– 3.8	83	30	31	11	90	5.02	+0.49	1.32	2–3	0	12	15	7	9	sw.	James M. Curry
St. Charles	St. Charles	520	58	....	......	..	..	..	..	68	....	......	....	..	.	..	..	..	..	......	Martin L. Comann
St. Joseph	Buchanan	957	36	60.5	– 3.7	85	30	33	11	74	5.23	+0.53	1.48	16–17	0	13	11	12	8	nw.	U. S. Weather Bureau
Saverton, Lock No. 22.	Ralls	472	8	61.0	......	82	24	41	11	8	6.18	......	1.35	1–2	0	16	13	7	11	sw.	Lockmaster
Shelbina	Shelby	779	5	60.6[a]	......	85[a]	24	37[a]	11	53	5.27	+0.95	1.26	17	0	12	13[a]	6[a]	11[a]	nw.	Guyman Hatcher
Steffenville	Lewis	650	48	59.6	– 4.2	81	30	36	11	53	5.54	+0.97	1.66	3	0	15	10	10	11	nw.	Mrs. Fannie V. Gross
Tarkio	Atchison	916	43	57.7	– 4.9	82	28†	31	11	52	3.26	–1.28	1.24	16–17	0	11	4	11	16	se.	C. A. A. Station
Trenton	Grundy	822	50	60.2	– 3.3	83	30	33	11	51	6.51	+1.81	2.58	2–3	0	14	9[a]	12[a]	9[a]	s.	W. H. Estes
Unionville	Putnam	1,062	53	57.5	– 4.6	81	30	31	11	53	4.23	–1.02	1.40	23	0	13	11	15	5	e.	Mrs. Dora A. Wilson
Vandalia	Audrain	766	2	60.6	......	80	24†	35	12†	7	4.67	......	0 80	17	0	14	11	4	16	n.	Mrs. Naomi K. Stoutz
Warrenton	Warren	816	64	61.0	– 3.9	80	30	34	12	56	5.68	+1.28	1.01	9–10	0	15	11	13	7	sw.	W. T. Zimmerman
Keokuk, Iowa	Lee, Ia.	574	74	59.8	– 4.0	83	31	36	11	74	3.33	–0.60	0.70	3–4	0	14	8	11	12	s.	U. S. Weather Bureau
Division means	**and extremes**	.....	..	59.8	– 3.8	**87**	**30**	**30**	**11**	..	5.05	+0.39	**2.75**	**3**	**0**	**13**	**10**	**9**	**12**	**nw.**	
Southwestern Division																					
Anderson ...1½ mi SW	McDonald	1,000	42	60.4[a]	– 5.3	85[a]	23	32[a]	12†	47	6.38	+0.63	1.58	30–31	0	12	17[c]	3[c]	8[c]	sw.	Samuel G. Chamberlain
Appleton City	St. Clair	813	51	61.5	– 3.5	85	24	37	12	54	4.71	–0.69	1.30	16–17	0	10	12	5	14	nw.	Rolla Brown
Bolivar	Polk	1,071	43	62.0	– 2.8	79	6†	38	12	51	5.39	+0.04	0.94	24	0	18	11	10	10	sw.	Southwest Baptist College
Boonville	Cooper	650	8	59.9	......	82	24	36	11	69	4.49	–0 12	1.50	3–4	0	16	11	8	12	sw.	Boonville Water Dept.
Butler	Bates	865	0	61.6	......	85	24	36	12	5	3.69	......	1.04	10	0	11	8[a]	12[a]	10[a]	nw	F. S. Wolf
Camdenton	Pulaski	940	0	62.8	......	81	14†	38	12	0	4.19	......	1.04	15–16	0	19	12	13	6	s.	L. C. Scott
Carthage	Jasper	962	12	62.4	......	85	24	34	12	22	9.12	......	4.00	30–31	0	14	7	23	1	s.	Carthage W. and E. Plant
Clinton	Henry	780	53	62 4	– 3.1	87	24	39	12	59	4.80	–0.03	1.96	10	0	11	8	16	7	s.	U. S. Weather Bureau
Eldon	Miller	934	51	62.0	– 2.2	80	28	40	11†	47	6.53	+2.23	1.12	10–11	0	17	9	9	13	s.	Ira M. Wilson
Harrisonville	Cass	904	68	59.7	– 4.1	83	30	34	11	71	5.05	+0.62	1.42	9–10	0	12	11	4	16	se.	Jeffrey B. Patterson
Jefferson City	Cole	557	56	61.2	– 3.5	83	5	35	12	64	4.63	+0.22	1.21	9–10	0	16	9	6	16	......	K. W. O. S. Radio Farm
Joplin	Jasper	1,008	24	63.6	– 2.7	82	24	40	11	41	9.70	+4.34	4.43	30	0	16	10	10	11	nw	Empire Dist. Electric Co.
Lakeside	Miller	595	15	62.0	– 4.1	82	28†	38	12	15	4.47	+0.20	1.20	10–11	0	15	7	11	13	nw	W. S. Frame
Lamar	Barton	980	58	61.0	– 4.6	82	24	36	12	65	5.71	+0.45	3.15	30–31	0	11	12	5	14	sw	Mrs. Marie Mann
Lebanon	Laclede	1,265	58	60.4	– 4.5	81	30	34	12	59	5.12	–0.09	1.40	15–16	0	15	8	10	13	sw.	Mrs. Rosa E. Montelius
Lexington	Lafayette	688	61	62.0	– 2.4	86	30	36	11	62	3.67	–1.29	0.80	17–18	0	12	12	8	11	se.	Tilton Davis
Lockwood	Dade	1,078	40	63.5	– 0.9	81	1†	38	12	50	7.02	+1.70	2.58	30–31	0	15	12	13	6	se.	Hubert A. Nieman
Marshall	Saline	779	59	61.7	– 2.5	85	24	37	11	56	4.02	–0.59	1.25	10–11	0	9	10	14	7	s.	Thomas A. Reid
Mountain Grove	Wright	1,463	45	61.5	– 2.3	80	24	35	12	49	9.01	+4.55	2.23	23–24	0	15	7	17	7	se.	Mo. Fruit Exp. Station
Mount Vernon	Lawrence	1,174	34	61.0	– 4.8	83	24	34	12	46	8.73	+3.22	1.76	30	0	14	8	16	7	se.	James C. Williamson
Neosho	Newton	1,011	59	63.0	– 3.0	85	24	33	12	63	8.66	+3.10	5.19	30–31	0	16	16	6	9	se	U. S. Fisheries Station
Nevada	Vernon	862	53	63.1	– 1.4	86	24	35	12	54	4.02	–0.91	1.23	30–31	0	14	10	6	15	no.	Henry Kraft
Ozark Beach	Taney	700	6	64.2	......	86	30	37	12	21	10.21	+4.99	2 65	15–16	0	11	3	18	10	sw.	Empire District Elec. Co.
Sedalia	Pettis	910	33	61.6	– 3.7	85	24	38	11†	35	8.81	+4.27	2.80	2	0	16	12	7	12	sw.	Dr. J. E. Cannaday
Seligman	Barry	1,542	45	61.2	– 3.3	86	24	36	12	43	7.37	+1.93	1.00	24	0	14	9	15	6	w.	Floyd E. Fawver
Seymour. 3½ miles NE	Webster	1,642	40	59.0	– 4.7	81	24†	32	12	40	8.10	+3.27	2.48	30–31	0	8	8	4	19	s.	A. L. Hailey
Springfield... 4 mi. NW	Greene	1,301	58	60.8	– 2.9	84	24	37	12	58	7.09	+1.90	2.24	2	0	17	4	14	13	s.	U. S. Weather Bureau
Sweet Springs	Saline	700	5	61.4	......	87	24	37	8†	5	3.83	......	1.15	2–3	0	15	14	11	6	s.	H. F. Nelson
Warrensburg	Johnson	878	59	61.4	– 3.6	83	24	37[a]	11	66	3.66	–1.06	1.25	9–10	0	11	12	9	10	nw.	Central Teachers College
Warsaw	Benton	687	45	63.2	– 2.3	85	24	35	12	51	3.49	–1.51	0.66	2–3	0	14	11	11	9	se.	Dora B. Johnson
Wasola	Ozark	1,294	5	62.2	......	82	30	38	12	6	7.52	......	3.14	15–16	0	10	8	13	10	s.	A. W. Pinckney
Waynesville	Pulaski	805	0	60.8[c]	......	83[c]	30	31[c]	12	0	7.40	......	....	..	0	19	11[c]	15[c]	2[c]	s.	Jesse H. Barlow
Division means	**and extremes**	.....	..	61.7	– 3.3	**87**	**24**	**31**	**12**	..	6.50	+1.26	**5.50**	**30**	**0**	**14**	**10**	**11**	**10**	**s.**	
Southeastern Division																					
Advance.... ¼ mile W	Stoddard	354	9	62.7	– 3.1	81	30	43	12	9	7.46	+3.19	1.94	24–25	0	15	6	6	19	s.	U. S. Weather Bureau
Arcadia	Iron	926	65	59.6	– 4.5	80	2†	35	12†	68	12.73	+8.49	3.57	30–1	0	13	12	2	17	e.	Arcadia College
Birch Tree... ½ mile E	Shannon	1,000	51	58.8[l]	– 6.2	81[m]	28	34[l]	12	52	11.93	+7.58	2.40	30–31	0	11	12[k]	3[k]	5[k]	nw.	R. C. Moger
Black.......9 miles NW	Iron.	1,000	53	60.2	– 3.8	81	30	31	12	53	9.07	+4.56	2.12	24–25	0	14	12	8	11	sw.	Claude Volner
Campbell	Dunklin	314	20	64.6	– 2.7	80	2†	43	5†	20	7.84	+2.83	1.81	24–25	0	14	9	15	7	s.	Mrs. Ruth Christian
Cape Girardeau	Cape Girardeau	347	1	65.5	......	82	30	46	5†	46	8.81	+4.74	1.90	24–25	0	16	5	11	15	s.	Homer R. Bolen
Caruthersville	Pemiscot	265	50	66.1	– 3.7	84	30	45	5	54	4.55	+0.11	1.87	24–25	0	12	10	10	11	se.	Victor T. Malloure
Crystal City	Jefferson	420	12	63.2	– 2.0	82	6†	37	12	12	6.52	+2.36	1.70	30–1	0	17	5	4	22	nw.	Richard K. Ragland
Doniphan	Ripley	344	42	64.7	– 1.8	86	30	37	8	42	8.07	+3.71	2.08	15–16	0	12	15	3	13	s.	Boyce Lackey
Farmington	St. Francois	896	35	61.1	– 2.6	79	6†	37	12	49	9.56	+4.49	2.58	30–1	0	15	7	6	18	s.	F. M. Karsch
Greenville	Wayne	460	37	62.4[b]	– 3.5	81[b]	30	36[b]	5	39	11.45	+7.27	2.97	15–16	0	15	11[b]	6[b]	12[b]	ne.	Beuford Shoemake
Jackson.	Cape Girardeau	428	55	63.6	– 2.0	83	30	39	5	56	8.69	+4.42	1.96	24–25	0	14	8	12	11	s.	Danny Siebert
Koshkonong	Oregon	958	45	63.6	– 3.0	82	30	39	12	46	12.54	+7.99	2.76	30–31	0	13	8	9	14	se.	Mrs. Genevieve T. Smith

Continued on next page

Climatological Data for May 1946—Continued from preceding page

Stations	Counties	Elevation, feet	Temperature, in degrees, Fahr.							Precipitation, in inches						Number of days				Prevailing direction of wind	Observers
			Length of record, years	Mean	Departure from the normal	Highest	Date	Lowest	Date	Length of record, years	Total	Departure from the normal	Greatest in 24 hours [4]	Date	Total snowfall, unmelted	With precip., .01 inch or more	Clear	Partly cloudy	Cloudy		
Southeastern Division—	*Concluded*																				
Licking...... 4 miles N	Texas	1,170	9	59.9	− 4.5	80	24	32	12	9	7.92	+2.79	2.00	24	0	13	12	0	19	s.	Fern E. Austin
Marble Hill	Bollinger	532	51	63.1	− 2.5	83	18	37	5	53	10.23	+5.74	2.30	24-25	0	13	13	6	12	s.	R. A. DeWitt
Poplar Bluff	Butler	339	41	65.4	− 2.1	84	30	42	5	42	11.47	+6.95	3.69	30-1	0	15	7	12	12	sw.	Osmon M. Richardson
Rolla	Phelps	1,202	46	61.5	− 3.0	82	30	37	12	62	5.68	+0.93	1.85	24	0	16	8	12	11	sw.	Rolla School of Mines
St. Louis:																					
City Office		465	109	62.5	− 4.5	80	30	43	11	109	5.58	+1.24	2.22	9-10	0	17	6	6	19	s.	**Section Center**
St. Louis Airport	St. Louis	556	9	62.0	− 3.8	81	30	40	12	15	5.14	+1.22	1.85	10	0	15	7	5	19	nw.	U. S. Weather Bureau
St. Louis University	St. Louis City	578	34	62.8	− 2.9	80	15†	43	11†	34	5.60	+1.41	2.33	9-10	0	15	13	5	13	se.	St. Louis University
Salem	Dent	1,206	42	61.0	− 3.5	83	18	34	12	45	6.15	+1.64	1.21	15-16	0	12	8	9	14	s.	E. E. Martin
Sikeston	Scott	318	39	64.7	− 3.8	84	30	43	8	49	11.72	+7.48	4.96	24-25	0	16	9	12	10	se.	Mrs. Lucy W. Humphreys
Union ....1½ mi. SE	Franklin	520	8	62.0	.....	81	30	34	12	29	5.39	+0.85	1.54	30-1	0	17	8	6	17	nw.	Cornelius Sieges
Vichy ....2 mi. NW	Maries	1,125	10	60.6	......	80	30	35	12	11	4.31	......	1.14	23	0	16	8	6	17	nw	Civil Aerouantics Adm.
Wappapello Dam	Butler	475	7	64.2	......	83	30	44	5	7	12.52	......	3.98	24-25	0	13	13	4	14	sw	U. S. Engineer Office
Weingarten	St. Genevieve	833	5	61.5	......	83	31	38	12	6	10.65	......	3.15	15-16	0	16	8	8	15	s.	William J. Miller
West Plains	Howell	1,005	9	61.0	− 3.6	82	30	36	12	9	10.14	+5.16	2.92	25-26	0	15	5	7	19	s.	U. S. Weather Bureau
Willow Springs 500 ft E	Howell	1,238	5	61.4	......	82	30	35	12	39	11.07	+6.47	2.96	15-16	0	11	10	7	14	s.	Allen Frazee
Cairo, Ill.	Alexander, Ill.	314	74	65.7	− 3.7	83	30	48	5	75	11.15	+7.44	5.53	24-25	0	14	7	6	18	sw.	U. S. Weather Bureau
Division means	**and extremes**	....	..	62.6	− 3.3	86	30	31	12	..	9.09	+4.51	4.96	24-25	0	14	9	7	15	s.	
State means	**and extremes**	.....	..	61.4	− 3.1	87	24†	30	11	..	6.88	+2.05	5.50	30	0	14	10	9	12	s.	

The departures from normal temperature are computed from the averages of the entire period for stations having 10 or more years of record. Departures of precipitation for stations with 15 years or more of record are computed from a normal or "standard mean", adjusted to a uniform 35-year period; for stations of 10 to 14 years the means for the period of record are used. The normal may be found by adding the departures when minus (−) or subtracting when plus (+). Figures and letters following stations indicate distance in miles and direction of station from the city Post Office, unless otherwise indicated. T. Trace or 0.005 inch or less. ^{a}, ^{b}, ^{c}, etc., number of days missing; for example, ^{b}, indicates two days missing. Italics data interpolated. § Partly interpolated. † And other dates. ‡ Received too late to be included in means and summaries. [4] Best available used for stations not equipped with recorders. Post office address of: Altona is Adrian; Crane Mountain is Arcadia; East End is Goodland; Eastwood Lookout is Van Buren; Ellsinore Lookout is Mill Spring; Hailey is Cassville; High Lookout is Birch Tree; Macedonia Lookout is Doniphan; Perry is Center; Pilot Knob is Irouton; Wilderness Lookout is Lampe.

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Sunshine for the month averaged approximately 10% less than normal, for the State as a whole. The average number of cloudy days was 12, or 4 more than normal.

Severe storms (tornadoes, high winds, and hail) occurred on the 23d, particularly in the northwestern quarter of the State, and resulted in severe property damage, and the death of two persons. For details see the table of severe storm damage printed elsewhere in this issue.

The cool, wet weather, which prevailed throughout the month, was favorable for the growth of oats, meadows, and pastures, but unfavorable for the corn and cotton crops and seriously interfered with the harvesting of hay crops. Corn planting was delayed and fields which had been planted became grassy and weedy from lack of cultivation, due to continued wet fields. Much replanting of corn was necessary. Wheat prospects declined during the month and there was some lodging due to rank growth and strong winds. However, a rather serious infestation of the Hessian fly in some areas was checked by the cool, wet weather. In the extreme southeastern counties it was too wet and cool for cotton; fields became grassy and much replanting was necessary, while some fields were abandoned to be planted to other crops. Fruit prospects, particularly peaches, were very good at the end of May. Warm, dry weather was badly needed as the month closed.—M. R. W.

TEMPERATURE

The monthly mean for the State, 98 stations reporting, was 61.4°, or 3.1° below the 59-year May average. The highest monthly mean was 66.1° at Caruthersville, and the lowest was 57.5° at Unionville. The highest reported was 87° at Clinton and Sweet Springs, on the 24th, and at Brookfield and Kansas City Airport, on the 30th; the lowest was 30° at Kidder and Maryville, on the 11th.

PRECIPITATION

The average for the State, 209 stations reporting, was 6.88 inches, or 2.05 inches more than the 59-year May average. The greatest monthly amount was 13.83 inches at Crane Mountain, and the least was 2.82 inches at Edgerton. The greatest amount reported in 24 hours was 5.50 inches at Granby, on the 30th. The average number of days with 0.01 inch, or more, was 14.

There was no snowfall recorded anywhere in the State.

MISCELLANEOUS PHENOMENA

Earthquake.—On 15th; felt at Doniphan and Poplar Bluff and other southeast Missouri points.

Floods.—In Black River, at Poplar Bluff, 2d to 4th; 18th to 20th; 26th to 28th; at Leeper on 25th. In Grand River, at Chillicothe, 3d to 5th and 6th to 7th. In Gasconade River, at Jerome, on 26th. In Mississippi River, at Louisiana, on 4th. In St. Francis River, at Fisk, on 2d and continued into June.

Fogs.—Heavy, 1st, 2d, 6th, 7th, 12th, 15th, 17th.

Frosts.—Light, 5th, 7th, 8th, 9th, 11th, 12th, 21st; moderate, 12th; killing, locally on 11th and 12th in Nodaway County.

Hail.—Light, on 2d at Knoxville and Sedalia; 10th at Altona and St. Louis University; 15th at Kansas City Airport and Warrensburg; 17th at Caruthersville and Sikeston; 19th at Seymour; 20th at Bethany; 23d at Amity, Bethany, Elsberry, Grant City, Oregon, St. Joseph, Napeoleon, Martin City, and in Carroll County; 24th at New Florence, Lockwood, and Springfield; 25th at Seymour; 30th at Amity, Kidder, King City, and Seymour. Moderate.—On 19th at Lockwood; 23d in northwest Platte County, Burlington Junction, and Ravenwood; 24th at Waynesville. (See special storm table). Heavy.—On 24th at Rolla and vicinity. (See special storm table).

Tornadoes.—On 23d. (See special storm table).

Windstorms.—23d, 24th. (See special storm table).

OBITUARY

Mr. A. L. Hailey, Cooperative Observer at Seymour(near), passed away on May 1, 1946, at the age of 81 years. Mr. Hailey served as Cooperative Observer from January 1933, until shortly before his death. However, the station has been in charge of the Hailey family since its establishment in August 1920, when Mr. Ira H. Hailey, the son of Mr. A. L. Hailey, became the official observer and served until November 1932. Mr. Ira H. Hailey again took over as official observer following his father's

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Daily Precipitation for May 1946

Stations	Drainage basins	Day of month																														
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Total
Northern Division																																	
Albany	Grand	.07	.01	2.75	....	.05	.71	....	....	T.	.26	.01	....	.04	....	.10	....	.78	....	....	T.	....	....	....	.54	....	....	....	....	....	.65	....	5.97
Amity	do	.08	.13	.51	....	.07	1.59	T.	....	.07	.20	.12	....	.03	....	.06	....	2.14	T.	T.	....	....	....	....	.32	....	....	....	....	....	.61	T.	5.93
Auxvasse	Missouri	.91	....	.60	.52	....	.04	....	....	T.	1.29	.91	....	T.	.10	.66	.06	.85	....	.13	T.	....	....	.34	.03	T.	....	....	....	....	....	.07	6.51
Bethany	Grand	.10	T.	1.14	....	.08	.80	....	....	....	.22	.05	....	.20	....	.11	....	.66	....	....	T.	....	....	....	.78	T	....	....	....	....	.62	T.	4.76
Bowling Green[2]	Mississippi	.54	1.02	.39	.18	....	.09	.05	....	....	.40	.76	....	....	.05	....	.57	....	.65	*	.13	....	....	....	.17	.12	....	....	....	....	*	.08	5.20
Brookfield[2]	Grand	.03	....	.50	....	....	.92	.15	....	....	.35	.30	....	....	....	....	....	....	1.20	....	....	....	....	.20	.80	....	....	....	....	....	*	.40	4.85
Browning.....3 mi. NE	do	.18	T.	.97	....	.06	1.65	T.	....	.04	.27	.29	....	.01	....	.01	....	.73	....	T.	.05	....	....	.33	T.	T.	....	....	....	....	.15	.20	4.94
Brunswick[2]	do	.23	.04	1.35	.22	....	.84	.13	....	....	.62	.67	....	....	.03	....	T.	.18	1.27	T.	....	.06	....	.33	....	....	....	....	....	....	....	.06	6.03
Canton, Lock No. 20[2]	Mississippi	.13	.35	.36	.83	....	.50	.19	....	....	.20	.55	....	....	T.	....	....	....	.56	....	T.	....	....	....	T.	.08	.05	....	....	....	....	.15	3.95
Centralia[2]	do	.25	T.	.33	.39	....	.09	.08	....	....	.34	.85	....	....	....	....	1.23	....	.79	*	.15	....	....	.35	.05	....	....	....	....	....	....	.03	4.93
Chillicothe[2]......(A)	Grand	.22	.03	.32	.11	....	.91	.29	....	....	.33	.22	....	....	.01	T.	....	.01	1.08	....	....	....	....	....	.34	....	....	....	....	....	....	.08	3.95
Chillicothe[2]......(B)	do	.06	.03	.33	.09	....	.94	.16	....	....	.25	.19	....	....	T.	....	....	T.	1.27	....	....	....	....	....	.28	....	....	....	....	....	....	.16	3.76
Clifton Hill	Chariton	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Columbia[1, 5]	Missouri	.01	.47	.90	T.	T.	.08	....	....	.78	1.55	.01	....	.09	T.	.42	.01	.78	....	.24	.05	....	....	.48	.28	T.	T.	....	....	....	.01	.18	6.34
Columbia[5]..9 mi. WNW	do	.15	T	.53	.49	T.	.09	....	....	T.	1.40	.84	....	.02	.03	T.	.63	.37	.14	.11	.03	....	....	.73	.03	....	....	....	....	....	....	.11	5.70
Conception	do	.03	.20	.96	T.	.07	1.04	....	....	....	.39	....	....	.09	....	.21	T.	.31	....	....	....	....	....	....	.48	....	....	....	....	....	.43	....	4.21
Edgerton	do	.12	....	.85	....	.40	.20	....	....	....	.42	.08	....	....	....	....	....	.75	....	....	....	....	....	....	....	....	....	....	....	....	....	....	2.82
Edina[2]	Mississippi	.29	.28	.70	1.20	....	.85	.28	....	....	.23	.30	....	....	....	....	....	....	.95	....	....	....	....	....	1.03	....	....	....	....	....	....	....	6.11
Elsberry S. C. S.[2]	do	.94	.15	1.00	.24	....	....	.03	....	....	.69	.85	....	....	T.	....	1.00	....	.62	.06	T.	....	....	....	.32	.18	.01	....	....	....	....	.06	6.15
Fayette	Missouri	.07	.02	1.08	.04	.02	.23	....	....	T.	.60	.65	....	.03	....	....	.72	.12	....	.05	....	....	....	T.	T.	....	....	....	....	....	....	....	3.63
Fulton[2]	do	.71	.46	.33	.23	....	....	.02	....	....	.90	.87	....	....	.06	....	.55	....	.53	.18	.01	T.	....	.31	.11	.20	....	....	....	....	....	.11	5.58
Gallatin[2]	Grand	.12	T.	1.00	.08	T.	.97	.20	....	....	.10	.30	....	....	.08	.02	....	.10	.77	....	....	....	....	....	.25	....	....	....	....	....	....	.67	4.66
Grant City	do	.12	.26	1.59	T.	.22	.37	....	....	T.	.24	....	....	.09	....	.32	T.	1.52	....	....	T.	....	....	....	.37	....	....	....	....	....	.73	....	5.83
Hannibal[1].......(A)	Mississippi	.74	.35	1.01	.07	.38	.28	....	....	.21	.68	.32	....	T.	.01	.03	....	.80	....	.11	T.	....	....	.10	....	....	....	....	....	....	....	.06	5.18
Hannibal[2].......(B)	do	1.15	1.58	.05	.92	.03	.70	.07	....	....	.54	.58	....	....	.06	....	.04	....	.90	....	.16	.02	....	....	.10	....	.04	....	....	....	....	.16	7.10
Hermann[2]	Missouri	1.05	.15	.85	.37	....	....	....	....	....	.90	1.45	.02	....	.05	....	.25	....	.90	.08	....	....	....	....	.40	.50	....	....	....	....	....	.18	7.15
Kahoka[2]	Mississippi	.55	.65	1.12	.66	....	.65	....	....	....	.38	.30	....	....	....	....	....	....	.77	....	....	.12	....	....	.38	....	.03	....	....	....	....	.10	5.71
Kansas City Airport[1, 5]	Missouri	T.	.04	.10	T.	T.	.23	....	....	.01	1.35	....	....	.01	T.	.35	.01	.60	....	T.	....	....	T.	.17	....	T.	....	....	....	T.	T	....	2.87
Kansas City University	do	.12	.04	.09	T.	....	.23	T.	....	.13	.83	.62	....	T.	....	.14	T.	.61	....	....	....	....	T.	T.	.05	....	....	....	....	....	....	T.	2.86
Kidder[2]	Grand	.11	.03	.88	.30	....	1.99	.19	....	....	.16	.28	....	....	.09	.09	....	.23	1.77	....	....	T.	....	....	.34	....	....	....	....	T.	.05	.81	7.32
King City	Missouri	....	.81	.43	....	.06	1.42	....	....	.76	....	....	....	.17	....	.05	....	1.04	....	....	....	....	....	....	.40	....	....	....	....	....	.71	....	5.85
Kirksville	Mississippi	.31	.02	1.13	.04	.10	1.37	.01	....	T.	.15	.30	....	T.	....	.01	....	.93	.01	....	.03	....	....	.10	.04	T	....	....	....	....	.06	T.	4.61
Knoxville[3]	Missouri	.26	2.09	.28	....	.78	.16	....	....	.01	1.56	....	....	.05	....	.03	.02	.51	....	.01	....	....	....	.07	....	....	....	....	....	....	....	....	5.83
LaBelle[2]	Mississippi	....	.78	.95	.85	....	.68	.20	....	....	.45	.48	....	....	T.	....	....	....	.81	....	....	....	....	....	.45	....	....	....	....	....	....	....	5.65
Lawson	Missouri	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Linneus	Grand	....	....	.55	....	*	1.00	....	....	....	.18	....	....	....	....	....	....	....	1.05	....	....	....	....	*	.18	....	....	....	....	....	....	....	2.96
Louisiana.......(A)	Mississippi	.69	.20	.78	.14	.03	.16	....	....	.01	.43	.76	....	.02	.04	....	.25	.72	....	.11	.04	....	....	.10	.03	.01	.01	....	....	....	....	.07	4.60
Louisiana[2].......(B)	do	.65	.18	T.	1.04	....	.16	.05	....	....	.37	.80	....	....	.05	....	.26	....	.65	T.	.13	....	....	....	.09	.02	....	....	....	....	....	T.	4.45
Lucerne[2]	Grand	.20	....	1.52	....	....	*	.68	....	....	*	.20	....	....	....	....	....	*	.60	....	....	....	....	....	.18	....	....	....	....	....	T.	T.	3.38
Macon[2]	Chariton	.28	....	.16	.01	....	.82	.11	....	....	.40	.58	....	....	....	....	....	....	1.24	.02	....	....	....	.19	.43	....	....	....	....	....	....	.03	4.27
Madison[2]	Mississippi	.32	....	.45	....	....	.55	....	....	....	.48	.80	....	....	....	....	.30	....	.53	....	....	....	....	....	.15	....	....	....	....	....	....	....	3.58
Martinsburg[2]	Missouri	....	.49	.51	.28	....	.01	.03	....	....	1.36	1.10	....	....	.03	....	.58	....	.73	.09	.01	....	....	....	.15	.04	T.	....	....	....	....	.13	5.54
Maryville	do	.03	.20	.96	....	.04	.77	....	....	.04	.24	....	....	.07	....	.29	....	1.02	....	.03	.08	....	....	....	.26	....	....	....	....	....	.15	....	4.18
Memphis[2]	Mississippi	.10	.83	.67	.42	....	.21	.24	....	....	....	.22	....	....	T.	....	....	....	.78	....	....	....	....	....	.52	....	....	....	....	....	....	.07	4.06
Mexico[2]	do	.25	.12	1.38	.28	....	.01	.11	....	....	.64	.90	.01	....	.05	....	.64	....	1.04	.15	....	....	....	....	.26	.08	....	....	....	....	....	.06	6.01
Milan[2]	Grand	.30	....	1.16	.30	....	.80	.42	....	....	.33	.20	....	....	....	T.	....	....	.61	....	....	....	....	.13	.23	....	....	....	....	....	....	.77	5.29
Moberly[2] ....3½ mi. NE	Mississippi	....	.07	.43	.09	....	.60	.03	....	....	.64	.54	....	....	T.	....	.07	....	.41	....	....	....	....	.08	.80	....	....	....	....	....	....	.03	§3.32
Monroe City	do	.26	.08	.21	....	.06	1.10	.04	....	.03	.04	1.04	....	.06	.05	.94	.23	.41	....	.08	....	....	....	.09	....	....	....	....	....	....	....	.29	5.01
New Florence[3, 5] 1 mi SE	Missouri	.33	.10	.54	T.	....	.05	....	....	.16	2.62	.13	....	.14	.01	.35	.02	.86	....	.07	T.	....	....	.26	.12	T.	T.	....	....	....	....	.12	5.88
Oregon	do	.14	1.06	.26	....	....	.88	....	....	.22	.42	....	....	.53	....	.31	....	.38	....	....	....	....	....	.32	....	....	....	....	....	.04	.46	....	5.02
Palmyra[2]	Mississippi	.72	.20	1.00	.43	.16	.53	.06	....	....	.45	.90	....	....	.12	....	.85	....	.41	....	....	....	....	....	.10	....	.48	....	....	....	....	.13	§6.57
Paris[2]	do	.24	.22	.62	.12	....	.55	.04	....	....	.45	1.08	....	....	.01	....	.69	....	.54	.12	.01	.01	....	.07	.08	....	....	....	....	....	....	.07	4.90
Perry.........1 mile E	do	.35	.20	.45	....	.05	.20	....	....	....	.30	.85	....	....	....	....	66	.68	....	....	....	....	....	.03	....	.07	....	....	....	....	....	....	3.78
Philadelphia	do	.14	.25	1.40	....	....	.90	....	....	....	.35	.70	....	T.	....	....	....	*	.60	T.	T.	....	....	T.	....	T	....	....	....	....	....	.30	4.64
St. Charles[2].....(A)	Missouri	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
St. Charles[2]......(B)	do	1.09	T.	.13	.79	T	....	.04	....	....	.93	1.89	T.	....	.05	....	.10	....	.67	....	.04	T.	....	....	.23	.05	.03	T.	....	....	....	.64	6.68
St. Joseph[1, 5]	do	.18	1.27	.08	....	.65	.11	....	....	.04	.65	....	....	.07	....	.12	.20	1.28	....	....	....	....	....	.47	....	....	....	....	....	T.	.11	....	5.23
Saverton, Lock No. 22[2]	Mississippi	.25	1.35	.06	1.16	....	.88	.02	....	....	.42	.95	....	....	.03	....	.01	....	.76	.02	.03	.02	....	....	.13	T.	T.	....	....	....	....	.06	6.18
Shelbina	do	.24	.18	.93	....	.12	1.05	....	....	....	.40	.68	....	....	....	....	....	1.26	....	.08	T.	....	....	.27	....	.04	....	....	....	....	....	.02	5.27
Shelbyville[2]	do	.37	.34	.93	....	....	1.08	....	....	.10	.49	.68	....	....	....	....	.36	....	.83	.06	....	....	....	....	.17	....	....	....	....	....	....	.20	5.61
Steffenville	do	.38	.33	1.66	....	.10	.90	.02	....	.03	.79	.51	T.	T.	....	....	....	.73	.01	.01	....	....	....	.03	....	....	.02	....	....	....	....	.02	5.54
Tarkio[3]	Missouri	T.	.61	.02	....	.64	.06	....	....	.01	.15	....	....	T.	....	....	.23	1.01	....	T.	T.	....	....	.31	T.	....	....	....	....	.01	.21	....	3.26
Trenton[2]	Grand	.06	....	2.58	.23	....	1.49	.04	....	....	.27	.28	....	....	.03	.01	....	T.	.66	....	....	....	....	....	.18	....	.01	....	....	....	.29	.38	6.51
Troy[2]	Mississippi	1.10	.13	.17	.85	....	....	.06	....	....	1.43	1.55	....	....	.04	....	.20	....	.70	....	.05	....	....	....	.14	.20	T.	....	....	....	....	.11	6.73
Unionville[2]	Chariton	.16	.03	.72	.13	....	....	.34	....	....	.05	.18	....	....	....	.03	....	....	.62	....	....	.05	....	.20	1.20	....	....	....	....	....	....	.52	4.23
Vandalia	Mississippi	.46	.07	.42	.15	.04	.12	.04	....	....	.55	.65	....	T.	....	....	.74	.80	....	.12	T.	....	....	....	.45	T.	....	....	....	....	....	.06	4.67
Warrenton	do	.58	.02	.61	.21	....	T.	.03	....	T.	1.01	.91	....	....	....	....	.41	.85	....	.08	T.	....	....	.53	.16	.05	.02	....	....	....	....	.21	5.68
Keokuk, Iowa[1]	do	.59	.38	.11	.65	T.	.41	....	....	....	.38	.01	....	T.	....	.02	....	.60	....	T	.06	....	....	.05	....	.03	.02	....	....	....	....	.02	3.33
Southwestern Division																																	
Altona[2]	Osage	....	.38	....	T.	....	....	.50	....	....	.82	.42	....	....	....	....	....	.67	.26	.12	....	....	....	....	....	....	....	....	....	....	....	.33	3.50
Anderson[2] ...1½ mi. SW	Neosho	....	....	.32	....	....	....	.12	....	....	.42	.25	....	....	.11	....	1.42	.63	....	.37	....	....	....	.55	.36	.25	....	....	....	....	....	1.58	6.38
Appleton City	Osage	....	.38	.12	....	....	.50	....	....	....	1.06	....	....	.05	.05	....	....	1.30	....	.10	....	....	....	....	.45	....	....	....	....	....	....	.70	4.71
Ava Ranger Station[2]	White	....	.97	....	....	....	....	....	....	....	.02	.45	....	....	.03	....	....	3.10	.35	....	1.30	....	....	....	1.41	....	....	....	....	....	....	2.15	9.78
Bolivar	Osage	.27	.86	.25	.02	....	....	.17	....	.03	.18	.17	....	.05	....	.48	.16	.74	....	.17	.03	....	....	.10	.94	....	....	....	....	....	.17	.60	5.39
Boonville[2]......(A)	Missouri	.10	.02	1.00	.50	....	....	.10	....	....	1.10	.65	....	....	.05	....	.32	....	.28	.15	....	.02	....	.02	.04	.04	....	....	....	....	....	.10	4.49
Boonville[2].......(B)	do	.15	....	1.00	.54	....	....	.08	....	....	1.15	.60	....	....	.04	....	.32	....	.42	.16	....	....	....	....	....	.06	....	....	....	....	....	.09	4.61
Bradleyville[2]	White	.04	....	....	....	.28	....	....	....	....	.24	.48	....	....	.06	....	3.80	1.05	....	.55	....	....	....	.49	.80	.92	....	....	....	....	....	3.80	12.51
Buffalo[2]	Osage	....	....	.91	.13	....	....	.11	....	....	.26	.27	....	....	....	....	.70	.65	.34	.32	....	....	....	.20	.40	.77	....	....	....	....	....	1.03	6.69
Butler	do	....	.50	.12	....	....	.49	.02	....	....	1.04	.25	....	.02	....	....	....	.83	....	....	.14	....	....	....	....	....	....	....	....	....	.08	.20	3.69
Camdenton	do	.04	.04	.40	.04	....	.03	.35	....	....	.17	.19	....	.05	....	.80	.24	.38	.35	.16	....	....	....	.21	.10	.01	....	....	....	....	.07	.56	4.19
Caplinger Mills[2]	do	T.	.70	.26	....	....	....	.21	....	....	.02	.23	....	....	.10	....	.41	.13	.43	.06	....	....	....	....	....	.37	....	....	....	....	....	.77	3.75
Carthage	Neosho	....	.56	.04	....	....	....	.27	....	.29	.22	1.32	....	.07	....	.64	....	.21	....	.12	....	....	....	.41	.97	....	....	....	....	....	2.36	1.64	9.12
Cassville[2]	White	.10	....	....	....	....	....	.40	....	....	.66	.69	....	....	.25	....	.95	.30	....	.35	.05	....	....	.65	.29	.72	....	....	....	....	....	.73	6.14
Chadwick[2]	do	T.	....	.51	.02	....	.08	....	....	....	.15	.45	.16	.03	T.	....	1.80	.80	.09	....	.35	....	....	.71	*	1.14	....	....	....	....	1.08	.06	7.43
Clinton[3]	Osage	....	.62	.06	....	....	.52	....	....	T.	1.96	T.	....	.13	....	.08	T.	.76	....	.15	....	....	....	T.	.09	....	....	....	....	....	.19	.24	4.80
Concordia	Missouri	.39	.15	.14	....	....	.25	....	....	.02	.96	.55	....	.06	....	.09	....	.31	....	.19	....	....	....	....	....	....	....	....	....	....	....	T.	3.11
Crocker	Osage	.25	1.58	....	....	....	.27	....	.26	....	.23	....	....	T.	....	.22	.33	....	.39	.05	....	....	....	.73	.75	....	....	....	....	....	.27	.70	6.03
Eldon	Missouri	.78	T.	.64	....	....	.02	.27	....	T.	.96	1.12	....	.07	.05	.30	.12	.74	.03	.15	....	....	....	.31	.51	.01	....	....	....	....	....	.45	6.53
Eldorado Springs	Osage	....	.91	.24	.04	....	.19	.09	....	T.	.18	.74	....	.12	.04	.04	....	.62	....	.08	....	....	....	.05	.14	....	....	....	....	....	....	.84	4.32
Elijah[2]	White	.05	....	.90	....	.70	.02	....	....	....	.02	.70	....	....	....	....	3.14	.26	.04	.60	.16	....	....	.03	.85	1.55	....	....	....	....	....	.92	9.94
Forsyth[2]	do	....	....	.74	....	....	....	.04	....	....	.22	.71	....	.03	.07	.17	2.71	.18	....	.59	1.59	....	....	.40	.22	1.30	....	....	....	....	....	1.79	10.76
Galena[2]	White	.03	....	.86	....	....	....	.22	....	....	.39	.44	....	.04	.21	....	1.00	.30	....	.36	....	....	....	.40	.34	1.04	....	....	....	....	....	1.15	6.78
Granby[2]	do	....	T.	.34	....	....	....	.30	....	....	.35	.22	....	....	.21	....	.64	.40	....	.09	....	....	....	.41	.24	.39	....	....	....	....	....	5.50	9.09
Hailey	do	....	1.22	....	....	....	....	.41	....	.46	.76	.14	....	.23	.13	.68	.31	.28	....	.43	....	....	....	.60	*	.74	....	....	....	....	....	1.11	§7.50
Harrisonville[2]	Osage	.04	1.20	....	.10	....	....	.33	....	....	1.42	.18	....	....	.05	.05	....	.20	.43	.05	....	....	....	....	....	....	....	....	....	....	....	1.00	5.05
Jefferson City ...(A)	Missouri	.20	.04	.40	....	....	.08	*	.01	T.	1.21	.87	....	.02	T.	T.	.15	.38	.01	.13	T.	....	....	.75	.15	T.	....	....	....	....	....	.23	4.63
Jefferson City[2]...(B)	do	.83	.06	.22	.23	T.	....	.09	....	....	.80	.99	T.	....	.03	....	.21	T.	.35	.09	.02	....	....	.42	.72	.17	....	....	....	....	....	.20	5.43
Joplin[1]	Neosho	T.	.85	.03	....	....	.11	....	....	.30	1.55	.05	....	.10	.05	.28	....	.28	....	.12	.03	....	....	.36	1.06	....	....	....	....	....	4.43	.10	9.70
Lakeside[2, 5]	Osage	.68	T.	.22	.17	....	....	.27	....	....	.09	1.11	....	.01	.06	....	.38	T.	.54	.14	....	....	....	.13	.03	.19	....	T.	....	....	....	.45	4.47

Continued on next page

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Stations	Drainage-basins	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Total
Southwestern Division—	*Concluded*																																
Lamar[2]	Neosho	....	....	.58	....	....	....	.13	....	....	.10	.85	....	....	.12	T.	....	.15	.23	.20	....	....	....	.05	.15	T.	....	....	....	....	....	3.15	5.71
Lebanon[2]	Osage	....	....	.53	.16	....	....	.06	....	....	.13	.26	....	....	.09	....	1.40	.14	.34	.27	....	.04	....	.13	.04	.68	....	....	....	....	....	.85	5.12
Lexington[2]	Missouri	.25	.05	.10	.50	....	....	.23	....	....	.60	.25	....	....	T.	.05	....	T.	.80	.05	....	....	....	....	.09	....	....	....	....	....	....	.70	3.67
Lockwood	Osage	....	.54	T.	....	....	....	.58	....	.04	.16	.62	....	.05	T.	.48	.10	.20	....	.86	.05	....	....	.20	.56	....	....	....	....	T.	1.18	1.40	7.02
Mansfield[2]	White	.09	....	1.02	....	....	....	.14	....	....	.05	.84	....	....	....	....	2.00	.10	....	.71	....	....	....	.30	.42	2.00	....	....	....	....	....	1.93	9.60
Marshall	Missouri	.90	.01	1.24	T.	....	.20	T.	....	.07	T.	1.25	....	T.	....	.01	....	.18	....	....	....	....	....	T.	....	....	....	....	....	....	....	.16	4.02
Marshfield[2]	White	.11	....	.29	....	....	....	.09	....	....	.06	.70	....	....	.04	T.	.78	.32	....	.58	....	....	....	.22	.23	.58	....	....	....	....	....	2.16	6.16
Mountain Grove[2]	Gasconade	.12	....	.68	.02	....	....	.28	....	....	.14	.85	....	....	T.	....	1.93	.09	.03	.30	.09	....	....	.65	.35	2.23	....	....	....	....	....	1.25	9.01
Mount Vernon[2]	Neosho	....	....	1.33	1.13	....	....	.27	....	....	.19	.24	.82	....	.09	....	.57	.39	T.	....	T.	....	.14	.40	.05	1.35	....	....	....	....	....	1.76	8.73
Neosho	do	.01	.49	.05	....	....	....	.29	....	.35	.12	.20	....	.08	....	.71	.02	.23	....	.13	....	....	....	.63	.16	....	....	....	....	....	3.81	1.38	8.66
Nevada	Osage	....	.50	.15	....	....	.05	.14	....	....	.15	.58	....	.05	....	....	.26	.47	.13	....	....	....	....	.03	.28	....	....	....	....	....	.07	1.16	4.02
Osceola[2]	do	.15	T.	.68	.08	....	....	.38	....	....	.09	.64	....	....	.07	....	.15	.06	.48	.13	....	....	....	....	.01	.25	....	....	....	....	....	.50	3.67
Ozark[2]	White	T.	....	.30	.03	*T.*	....	....	....	....	.25	.81	T.	....	.49	T.	1.05	.20	.03	.27	....	....	....	.29	T.	*	1.10	....	....	....	....	1.50	6.32
Ozark Beach[2]	do	....	....	.79	....	....	....	.15	....	....	.25	.80	....	.02	.04	....	2.65	.20	....	.51	1.05	....	....	.52	.54	1.16	....	....	....	....	....	1.53	10.21
Pierce City[2]	Neosho	....	....	.23	....	....	....	....	....	....	.55	.32	....	....	.10	.53	....	.30	....	.26	....	....	....	.40	.30	1.04	....	....	....	....	....	2.47	6.50
Pineview Lookout[2]	White	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Pleasant Hill[2]	Osage	.16	.28	.02	.01	....	T.	.29	....	....	2.34	.34	....	....	.02	.38	....	.07	.66	.16	....	....	....	....	....	....	....	....	....	....	T.	.28	5.01
Roby	Gasconade	.14	.84	T.	*T.*	....	....	.08	....	....	.24	.37	....	T.	....	.82	.43	.10	.24	....	.03	....	....	.47	.58	.43	....	....	....	....	.41	1.32	6.50
St. Thomas[2]. 2¼mi SW	Osage	1.17	.17	*.21*	.19	....	....	T.	....	....	.30	1.90	....	....	....	....	*.30*	....	.47	.14	....	....	....	.78	....	.30	....	....	....	....	....	.40	§6.33
Saunders Lookout[2]	White	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Sedalia	Missouri	.06	2.80	1.98	.12	....	.12	....	....	....	1.91	.33	....	.04	.05	....	.17	.61	....	.16	....	....	....	.01	.06	.11	....	....	....	....	....	.28	8.81
Seligman[2]	Neosho	.05	....	.52	....	....	....	T.	....	....	.51	.54	....	.03	.23	....	.82	.56	....	.79	.17	....	....	.94	.23	1.00	....	....	....	....	....	.98	7.37
Seymour[2]....3½ mi. NE	White	.08	....	.20	T.	....	....	....	....	....	T.	.65	....	....	T.	T.	....	1.40	....	.82	T	....	....	....	.44	2.03	....	....	....	....	....	2.48	8.10
Shell Knob[2]...3 mi. SE	do	.08	....	1.21	....	....	....	.30	....	....	.34	.59	....	.06	.31	....	1.03	.21	....	.22	.36	....	....	.65	.52	.78	....	....	....	....	....	.75	7.41
Siloam Sprgs Lookout[2].	do	.06	....	.65	....	....	....	.12	....	....	....	1.65	....	....	....	....	3.10	.47	.20	....	....	....	....	.70	.70	1.77	....	....	....	....	....	2.00	11.42
Springfield[1,5]. 4 mi. NW	do	....	2.24	.01	.01	....	.17	T	....	.07	.44	.03	....	.04	T.	.80	.01	.21	....	.50	.01	....	....	.17	.93	....	....	....	....	....	1.22	.23	7.09
Stover[2]	Missouri	.26	.09	.39	.15	....	....	.40	....	....	.81	1.51	....	....	.14	....	.50	.12	.65	....	....	....	....	.40	....	.18	....	....	....	....	....	.20	5.80
Sugar Camp Lookout[2].	White	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Sweet Springs	Missouri	.13	.16	1.15	.02	.02	.20	....	....	.01	.91	.21	....	.08	....	.23	.01	.42	....	.13	T.	....	....	T.	....	....	....	....	....	....	....	.15	3.83
Tecumseh[2]. ..¼ mi. W	White	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Topaz[2]	do	....	....	.76	....	....	....	....	....	....	....	1.13	....	....	....	....	3.00	....	.37	.43	....	....	....	.90	.36	1.40	....	....	....	....	....	1.75	10.10
Vanzant[2]....3¾ mi. SE	do	.10	....	.93	....	....	....	....	....	....	.17	.98	....	....	....	....	3.39	.13	.17	.45	.09	....	....	.22	.43	1.12	....	....	....	....	....	1.53	9.71
Warrensburg	Missouri	.10	.33	.61	....	T.	.20	....	....	....	1.25	.21	....	.03	....	.24	....	.29	....	.23	....	....	....	....	....	T.	....	....	....	....	....	.17	3.66
Warsaw[2].........(A)	Osage	....	.05	.66	.20	....	....	.39	....	....	.09	.46	....	.05	....	....	.26	.03	.65	.24	....	....	....	.05	.02	....	....	....	....	....	....	.34	3.49
Warsaw[2].........(B)	do	....	*	.68	*.21*	....	....	.32	....	....	.12	.36	....	.08	....	....	.20	*	*	.67	....	....	....	.04	*.01*	....	....	....	....	....	....	.37	§3.06
Wasola[2]	White	....	....	.38	....	....	....	....	....	....	.09	.70	....	....	....	....	3.14	*T.*	....	.66	.34	....	....	.11	.04	.78	....	....	....	....	....	1.28	7.52
Waverly[2]	Missouri	.33	.05	.40	.22	....	.07	.11	....	....	.70	.65	....	....	.03	.04	....	.12	.65	.02	....	.03	....	.05	....	....	....	....	....	....	....	.03	3.50
Waynesville	Gasconade	.47	.01	.13	.04	T.	....	.07	T	T.	.20	.20	....	.01	....	.13	.41	.35	....	.17	.03	....	*	*	4.10	.09	....	....	....	....	.12	.87	7.40
Wilderness Lookout[2]	White	.02	....	1.03	....	....	....	.36	....	....	.34	.51	.01	.03	.14	....	1.47	.37	....	.41	.16	....	....	.69	.87	.93	....	....	....	....	....	.98	8.32
Southeastern Division																																	
Advance[3].....¼ mile W	St. Francis	1.14	.63	T.	....	....	T	....	....	.10	.82	.42	....	....	....	.80	.35	.13	....	.24	.01	....	....	.24	1.77	.26	.02	....	....	....	....	.53	7.46
Alton.......10 miles SE	Black	....	....	.37	....	....	....	.23	....	....	.18	.88	....	....	....	1.03	.92	.23	....	....	....	....	....	.60	.03	2.03	....	....	....	....	....	1.11	7.61
Annapolis[2].....7 mi. W	do	2.33	.04	.17	.03	....	....	.04	....	....	.01	.80	....	....	....	....	2.41	.05	.27	.16	.70	....	....	....	.43	3.76	....	....	....	....	....	.94	12.17
Arcadia[2]	St. Francis	3.57	....	.68	....	....	....	.07	....	....	.21	1.70	....	....	....	....	2.30	.34	.52	.29	.50	....	....	....	.35	2.00	....	....	....	....	....	.20	12.73
Bellview[2]	Meramec	2.75	.15	.59	.04	T.	....	.03	....	....	.09	1.23	.01	....	T.	....	1.80	.19	.27	.14	.13	....	....	....	.37	2.11	T.	....	....	....	....	.36	10.26
Bernie[2]	St. Francis	1.32	.66	.46	....	....	....	....	....	....	.51	1.32	.11	....	....	....	2.00	.04	.03	.10	.11	.13	....	T.	1.00	2.07	.13	....	....	....	....	.65	10.64
Birch Tree[2] ...½ mile E	Black	.86	.46	.25	....	....	....	.45	....	....	T.	1.03	....	....	....	....	2.04	.75	.78	....	....	....	....	....	.58	2.33	....	....	....	....	....	2.40	11.93
Black...... 9 miles NW	do	.37	....	.92	.02	....	....	....	....	....	1.20	.20	....	....	....	.90	1.20	.80	....	.18	.08	....	....	.40	1.56	.56	....	....	....	....	....	.68	9.07
Bloomfield[2]	St. Francis	1.61	.84	1.39	.06	....	....	....	....	....	.34	.68	.06	....	....	....	1.52	.06	.16	.18	.06	.12	....	....	.36	2.74	.07	.05	....	....	....	.73	11.03
Bunker[2]... 4 miles NW	Black	*1.30*	*.07*	*1.00*	*.01*	....	....	*.50*	....	....	*.25*	.54	....	....	....	....	1.52	.44	.33	....	.35	....	....	....	.95	1.85	....	....	....	....	....	.82	§9.93
Campbell	St. Francis	.90	.01	.26	....	....	....	.06	....	....	.37	.96	T.	....	....	1.23	.50	T.	....	.02	.20	....	....	1.02	.06	1.75	....	....	....	....	....	.50	7.84
Cape Girardeau..(A)	Mississippi	1.72	.04	.75	....	....	....	....	....	T.	1.32	.75	....	....	....	.43	.54	.11	....	.05	.05	....	....	.40	.24	1.90	.04	.02	....	....	....	.45	8.81
Cape Girardeau[2].(B)	do	2.06	.34	.54	....	....	....	....	....	....	.80	1.04	T.	....	....	....	.61	.08	.17	.04	T.	.08	....	....	.43	2.41	.17	.04	....	....	....	.44	9.25
Caruthersville[2]..(A)	do	.42	.10	.12	T.	....	....	....	....	....	T.	.40	T.	....	....	....	.45	.09	.05	....	.08	.19	....	T.	.74	1.87	....	.04	....	....	....	T.	4.55
Caruthersville[2]..(B)	do	.47	.05	.10	....	....	....	....	....	....	.02	.38	....	....	....	....	.48	.07	.07	....	.06	.16	....	.05	.69	1.92	....	.04	T.	....	....	....	4.56
Centerville(1)[2]	Black	1.40	.08	.90	....	....	....	.65	....	....	.30	1.48	.02	....	T.	.01	3.10	.01	.55	.28	.39	....	....	....	.70	2.53	T.	....	....	....	....	.95	13.35
Centerville(2)[2]	do	1.44	.05	.93	.04	....	....	.38	....	....	.09	1.58	....	....	T.	T.	2.81	.06	.78	.18	.32	T.	....	....	.73	2.73	.01	....	....	....	....	.86	12.99
Cook Station[2]	Meramec	....	.50	....	....	....	....	.18	....	....	.04	.44	....	....	....	....	.88	.15	.73	.12	....	....	....	....	.57	1.32	....	....	....	....	....	.82	5.75
Crane Mountain[2]	St. Francis	3.09	....	.08	.02	....	....	.19	....	....	.39	.76	....	....	....	....	3.30	.16	.50	.10	1.01	....	....	....	.44	3.00	....	....	....	....	....	.79	13.83
Crystal City	Mississippi	1.70	....	.40	.04	....	....	.15	....	....	.49	.80	....	T.	....	....	1.26	.51	.02	.02	.01	....	....	.26	.08	.32	.06	.01	....	....	T.	.39	6.52
Cuba	Meramec	.75	....	.37	.13	....	....	.07	....	*	.47	.48	....	....	....	.57	.37	.78	....	.20	.02	....	....	.50	.25	.37	....	....	....	....	....	.70	6.03
Deering[2]	St. Francis	.35	.04	.05	....	....	....	....	....	....	.03	.45	....	....	....	....	.94	.09	....	....	.19	.21	....	T.	.80	1.67	....	....	....	....	....	.08	4.90
De Soto[2]	Mississippi	2.70	....	.44	.06	....	....	.17	....	....	.27	.71	....	....	....	....	.96	.01	1.14	.04	....	....	....	....	.14	.66	*T.*	.01	....	....	....	.36	7.67
Dexter[2]	St. Francis	1.47	1.08	1.27	....	....	....	....	....	....	.12	1.27	....	....	....	....	1.29	.14	.13	....	....	.18	....	....	.55	3.12	.08	....	....	....	....	.09	10.79
Doniphan(1)	Black	.19	....	.50	....	....	....	....	....	....	.15	.81	....	....	....	.98	1.10	.08	....	.03	....	....	....	.71	.02	1.80	....	....	....	....	....	1.70	8.07
Doniphan(2)[2]	do	1.27	.11	.50	T.	....	....	.07	....	....	....	.70	....	....	....	....	1.80	.09	.10	....	....	....	....	....	.70	1.70	.08	....	....	....	....	1.50	8.62
East End[2]	Meramec	1.08	....	.44	.05	....	....	.03	....	....	.21	1.45	....	....	....	....	1.82	....	.40	.14	....	....	....	....	1.03	1.70	....	....	....	....	....	.50	8.85
Eastwood Lookout[2]	Black	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Ellington[2]	do	1.04	.04	.30	....	....	....	.30	....	....	....	1.20	....	....	....	....	2.47	.03	.49	.15	.20	....	....	....	.65	3.98	....	....	....	....	....	2.00	12.85
Ellsinore Lookout[2]	do	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Farmington[2]	St. Francis	2.58	.01	.25	T.	T.	....	.05	....	....	.07	1.06	....	....	T.	....	2.18	.27	.55	.11	.60	....	....	....	.31	1.32	....	.02	....	....	....	.18	9.56
Fisk[2]	do	2.00	.73	.45	....	....	....	....	....	....	....	.70	....	....	....	....	2.00	....	....	....	.22	....	....	....	.43	3.54	....	....	....	....	....	.60	10.67
Fredericktown[2]	do	2.70	.03	.16	....	....	....	.03	....	....	.38	.88	....	....	....	....	3.34	.11	.21	.30	.40	....	....	....	.32	2.57	....	....	....	....	....	.57	12.00
Gerald	Meramec	.65	.04	.03	.30	....	....	.09	....	....	.81	.70	....	*T.*	....	.03	.14	.69	....	.08	.01	....	....	.34	.09	*T.*	.09	....	....	....	.01	.25	4.35
Greenville(1)	St. Francis	.79	.97	1.16	....	....	....	.02	....	.32	.53	....	....	....	T.	.46	2.51	.20	....	.06	.02	....	....	.36	1.68	1.14	T.	....	....	....	....	1.23	11.45
Greenville[2](2)	do	2.57	.04	2.62	....	....	....	....	....	....	T.	.67	....	....	T.	....	2.81	.29	.17	.08	.05	.01	....	....	.40	2.61	....	....	....	....	....	1.18	13.50
High Lookout[2]	Black	1.10	.04	.62	....	....	....	.26	....	....	....	1.15	....	....	....	....	2.17	.66	....	....	....	....	....	*	*	*	3.60	....	....	....	....	1.53	11.13
Jackson	Mississippi	1.21	....	.44	....	....	....	T.	....	....	1.00	.47	....	....	T.	.55	1.50	.42	....	.06	T.	....	....	.39	.15	1.96	.03	.01	....	....	....	.50	8.69
Jefferson Barracks[2]	Mississippi	1.90	....	.44	.24	....	....	.02	....	....	.47	.69	....	....	.08	....	.78	.02	1.08	....	T.	T.	....	....	....	.15	....	.03	....	....	....	.28	6.18
Jerome[2]	Gasconade	.68	.24	.97	*.26*	....	....	.26	....	....	.16	1.42	....	....	....	....	*.31*	..	.78	....	....	....	....	.74	....	3.12	....	....	....	....	....	.86	§9.80
Koshkonong[2]	Black	2.02	.35	.57	....	....	....	.28	....	....	.02	1.28	*T.*	....	....	....	1.84	.02	.46	.01	....	....	....	....	.45	2.48	....	....	....	....	....	2.76	12.54
Leeper[2]	do	1.54	T.	.10	....	....	....	.01	....	....	T.	....	....	....	....	....	1.79	.08	1.95	T.	.06	....	....	....	.24	3.07	.24	....	....	....	....	1.02	10.10
Licking[2]	Gasconade	.23	.38	.46	....	....	....	.08	....	....	.04	.53	....	....	....	....	1.64	.09	.38	.13	....	....	....	....	.38	2.00	....	....	....	....	....	1.58	7.92
Macedonia Lookout[2]	Black	1.02	.04	.22	....	....	....	.05	....	....	....	.70	....	....	....	....	2.30	....	.05	....	....	....	....	....	.46	2.40	.02	....	....	....	....	1.82	9.08
Marble Hill	Mississippi	2.10	.48	.56	....	....	....	....	....	....	.91	.96	....	....	....	.42	1.15	....	....	.12	....	....	....	.24	.30	2.30	....	.10	....	....	....	.59	10.23
Meramec Park[2]	Meramec	1.69	.05	.04	.28	T.	....	.05	....	....	.32	.69	.01	....	.04	....	.43	T.	.80	.02	....	.09	....	....	.51	.41	.01	.02	....	....	T.	.81	6.27
Morehouse	Mississippi	1.56	.04	.61	....	....	....	....	....	....	1.29	.63	....	....	....	.96	.23	....	.19	....	.15	....	....	.57	.90	3.50	.12	....	....	....	....	.39	11.14
Moselle[2]	Meramec	1.41	.02	.27	.16	....	.13	....	....	....	.35	.66	.04	.04	.03	.18	....	....	.56	.02	....	.03	....	.33	.23	.02	....	....	....	....	....	.30	4.78
New Madrid[2]	Mississippi	.74	.15	.97	....	....	....	....	....	....	.49	.94	....	....	....	....	1.00	.06	....	T.	T.	.38	....	....	.92	4.07	....	T.	....	....	....	....	9.72
Oates Tower[2]	Black	1.34	.05	1.03	.02	....	....	.56	....	....	.26	1.80	....	....	*T.*	....	2.00	*T.*	.56	.14	.15	....	....	....	.34	2.29	*T.*	....	....	....	....	.85	11.39
Owensville[2]	Gasconade	*.92*	.16	.09	.25	....	....	.13	....	....	.61	1.17	....	....	....	....	.17	....	.39	.07	....	....	....	.11	.32	.12	....	....	....	....	.33	....	§4.84
Pacific[2]	Meramec	1.56	....	.77	*.31*	....	....	....	....	....	1.05	.72	*T.*	....	....	....	*.29*	....	.92	....	....	....	....	....	*.35*	*.19*	*T.*	....	....	....	....	.59	§6.75
Parma[2]	St. Francis	1.61	1.13	1.38	....	....	....	....	....	....	.28	1.05	....	.03	....	....	1.36	.05	.04	.02	.10	.11	....	....	.96	2.96	....	....	.05	....	....	T.	11.13
Perryville	Mississippi	2.40	.20	....	....	....	....	....	....	....	.24	.86	....	....	....	.20	2.01	.28	....	.21	....	....	....	....	.24	.20	.08	....	....	....	.36	.22	7.50
Pilot Knob[2]...2 mi. NE	St. Francis	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Poplar Bluff[2]	Black	3.69	.13	.26	....	....	....	.05	....	....	.51	.73	T.	....	....	....	2.14	.18	.03	....	.01	.08	....	T.	.39	2.83	.01	T.	....	....	....	.43	11.47
Puxico[2]	St. Francis	3.40	.28	2.35	....	....	....	....	....	....	.50	.85	.01	....	....	....	1.86	.26	.26	.12	....	.01	....	T.	.24	3.19	.02	.01	....	....	....	.23	13.59
Qulin[2]	do	1.75	.47	.49	T.	....	....	.03	....	....	.31	.67	.01	....	....	....	1.63	.03	.17	....	.06	.02	....	.02	.94	1.55	T.	T.	....	....	T.	.54	8.69
Reynolds[2]	Black	1.21	.20	.74	....	....	....	.10	....	.07	1.57	....	....	....	....	....	3.70	.03	.68	.35	.17	....	....	....	.43	2.77	....	....	....	....	....	.87	12.89
Richwoods[2]	Meramec	2.00	....	.24	.22	T.	....	....	....	....	*	1.66	....	T.	....	....	.43	.03	*.91*	T.	T.	....	....	....	.30	.46	....	....	....	....	....	.25	§6.50
Rolla[2]	do	.15	.15	.05	.07	....	....	.17	....	....	.10	.37	....	....	....	....	.37	.15	.58	.10	....	.15	....	.60	.12	1.85	....	....	....	....	....	.70	5.68
Round Spring[2]	Black	.85	.16	.43	....	....	....	....	....	....	....	1.44	....	....	....	....	1.85	....	.52	....	1.15	....	....	....	.57	3.25	....	....	....	....	....	.97	11.19

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Stations	Drainage-basins	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Total
Southeastern Division —	*Concluded*																																
St. Louis:																																	
City Office[1], [5]	Mississippi	.28	.16	.43	.01	....	.01	....	....	.10	2.17	.35	....	.02	T.	.11	.25	1.11	....	.01	T.	....	....	.16	.06	T.	.06	....	....	....	T.	.29	5.58
Airport[3], [5]	Missouri	.29	.05	.48	T.	....	.05	T.	....	.10	1.85	.26	....	T.	.11	.10	T.	.89	....	.02	T.	....	....	.16	.08	T.	.08	....	....	....	....	.62	5.14
St. Louis Univ.[1], [5]	Mississippi	.36	.11	.55	T.	....	.02	....	....	.04	2.33	T.	....	.02	T.	.12	.25	1.15	....	.01	T.	....	....	.19	.03	T.	.05	....	....	....	T.	.37	5.60
Washington Univ.[2]	....do	1.73	....	.37	.59	....	....	.01	....	....	1.15	1.68	....	....	.04	....	.21	....	.88	....	....	....	....	....	.21	.05	.02	....	....	....	....	.58	7.52
Salem[2]	Meramec	.47	.14	.55	T.	....	....	.06	....	....	.06	.60	....	....	....	....	1.21	....	.49	.20	....	....	....	....	.40	1.11	....	....	....	....	....	.86	6.15
Sikeston[2]	Mississippi	.95	.42	.78	T.	....	....	T.	....	....	.26	.99	T.	....	....	....	1.93	.05	.18	.02	.04	.10	....	....	.45	4.96	.11	T.	.06	....	....	.42	11.72
Steelville[2] ...2½ mi. NE	Meramec	.50	.17	.18	.07	....	....	.10	....	....	.19	.45	.55	....	.03	....	.50	.29	.51	.19	....	.10	....	....	.66	.94	....	....	....	....	....	.61	6.04
Summersville[2]	Black	.64	.31	.23	....	....	....	.46	....	....	....	1.01	....	....	....	....	1.61	.43	....	.32	1.16	....	....	....	.70	2.24	....	....	....	....	....	1.04	10.15
Union[2] ....1½ mi. SE	Meramec	1.54	.01	....	.40	.01	....	.08	....	....	.66	.68	.01	....	.02	....	.16	....	.67	.06	....	....	....	....	.50	.20	.01	.02	....	....	....	.36	5.39
Valley Park[2]	....do	2.10	....	.56	.12	....	....	....	....	....	.91	.99	....	....	T.	....	.21	....	.83	T.	T.	T.	....	....	.24	.09	T.	....	....	....	....	.60	6.65
Van Buren[2]	Black	.93	....	.23	....	....	....	.07	....	....	....	.85	.04	....	....	....	1.20	.06	.08	....	.14	....	....	....	.50	2.20	....	....	....	....	....	1.86	8.16
Vichy[3] .....2 miles NW	Meramec	.11	.03	.22	T.	....	.15	T.	....	.15	.18	.33	....	T.	....	.40	.07	.64	....	.21	.04	....	....	1.14	.19	T.	T.	....	....	....	.05	.40	4.31
Wappapello Dam[2]	St. Francis	3.61	.04	.18	....	....	....	....	....	....	.45	.54	....	....	....	....	2.52	.01	.11	.05	....	T.	....	T.	.33	3.98	.03	T.	....	....	....	.67	12.52
Webster Groves	Mississippi	1.55	....	.40	.19	....	....	....	....	T.	1.32	.51	....	....	.05	...	.35	.93	*T.*	T.	....	....	....	.19	.01	.05	.01	....	....	....	....	.51	6.07
Weingarten	....do	2.10	....	....	....	....	....	.35	....	....	.89	.70	....	....	.02	.10	3.05	.57	....	.55	.47	....	....	.15	.25	1.10	*	.10	....	....	....	.25	10.65
West Plains[3]	Black	.02	.77	....	T.	....	.06	....	....	.02	.44	.51	....	T.	T.	1.73	.27	.65	....	.25	T.	....	....	.76	2.66	.26	....	....	....	....	.89	.85	10.14
Williamsville[2]	....do	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Willow Springs[2] 500 ft E	White	.24	....	.64	....	....	....	.60	....	....	....	1.04	....	....	*T.*	....	2.96	T.	.28	.33	.08	....	....	....	.98	1.82	....	....	....	....	....	2.10	11.07
Winona Ranger Sta.[2]	Black	1.34	.27	.20	....	....	....	.25	....	....	....	.90	....	....	....	....	2.05	....	....	....	2.87	....	....	....	.62	2.60	...	....	....	....	....	1.73	12.83
Zalma[2]	Mississippi	4.06	.10	1.28	....	....	....	....	....	....	.76	.64	....	....	....	....	2.25	.05	.09	.14	....	....	....	.02	.20	2.10	....	.04	....	....	....	.78	12.51
Cairo, Ill.[1], [5]	....do	.71	.60	.24	....	....	T.	T.	....	T.	.62	.40	....	T.	....	.77	.14	.28	....	T.	.16	....	....	.63	5.08	1.03	.01	T.	....	....	....	.48	11.15

Except as otherwise indicated, amounts are for 24 hours ending late in afternoon. [1] Midnight to midnight. [2] Measured in the morning; for the preceding 24 hours. [3] Data for 24 hours ending 12:30 A. M. (C. S. T.) of following day. [5] Recording gage. T. Trace or 0.005 inch or less. * Included in next measurement. // Windshield on gage. Italics data interpolated. § Partly interpolated. (A) Record from cooperative station gage. (B) Record from river station gage. ‡ Received too late to be included in means and extremes.

Daily Evaporation (inches), Mean Temperature (F°), and Wind Movement (miles) for May 1946

(See precipitation data in daily precipitation table)

Station	Data	Day of month																															Monthly
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Columbia (Univ. of Mo. Hort. Exp. Sta. 9 mi. WNW.)	Evaporation	.017	.049	.103	.130	.118	.150	.159	.181	.111	.148	.261	.140	.083	.099	.118	.149	.031	.181	.138	.132	.181	.318	.211	.222	.138	.159	.203	.197	.201	.161	.158	4.647
	Mean temperature	64	66	61	52	60	60	50	53	57	63	53	51	54	62	67	63	59	63	66	58	58	62	66	73	60	60	66	65	64	68	69	60.9
	Wind movement	28	9	67	90	74	47	95	50	20	18	104	19	21	48	12	36	26	63	52	39	43	99	117	140	77	53	16	6	32	52	39	1,592
Lakeside (Osage Dam)	Evaporation	.003	.104	.096	.148	.100	.219	.176	.197	.206	.103	.153	.162	.185	.000	.141	.089	.073	.043	.225	.147	.150	.228	.335	.117	.081	.168	.152	.242	.204	.220	.144	4.611
	Mean temperature	69	67	62	56	60	63	54	55	56	61	50	54	52	64	68	66	64	64	64	58	59	62	68	68	66	63	62	65	66	70	68	62.0
	Wind movement	44	14	42	105	51	46	57	49	49	73	77	44	33	26	24	39	31	47	46	50	33	24	123	120	50	76	28	38	16	57	71	1,583
St. Louis (Washington University)	Evaporation	.000	.041	.090	.116	.072	.154	.198	.206	.178	.160	.088	.092	.153	.041	.113	.129	.078	.032	.160	.064	.119	.195	.244	.026	.076	.068	.032	.110	.188	.143	.162	3.528
	Mean temperature	64	67	68	54	60	66	56	56	61	65	52	52	52	64	70	60	58	66	66	61	60	64	66	70	65	57	63	66	65	70	68	62.3
	Wind movement	45	25	21	25	27	23	47	45	24	25	36	21	23	17	17	43	36	22	23	23	22	21	43	57	43	32	29	21	19	22	30	907

Observations taken at 8:00 a. m. except at 5:00 p. m. at Columbia. For Lakeside and St. Louis (Washington University) descriptions see April 1932 and August 1938 reports, respectively. * Included in next measurement.

(Continued from page 35)

passing.

The Weather Bureau and the Seymour community have lost a fine public servant in the passing of Mr. A. L. Hailey, and both are deeply indebted to him for the valuable climatic record compiled during his tenure as Cooperative Observer in Webster County.

ERRATA

March 1946, page 18: Date of greatest 24-hour precipitation at Lakeside should be 22-23d.

Daily Temperatures for May 1946

Stations		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Northern Division																																	
Brunswick/	Maximum	66	75	66	62	66	62	60	69	70	72	55	63	60	77	76	66	65	80	66	66	75	77	76	82	59	72	78	82	78	84	80	70.5
	Minimum	51	59	50	46	46	46	43	42	42	50	37	37	41	47	53	56	56	48	48	51	46	47	53	61	55	55	48	48	53	57	63	49.5
Chillicothe/	Maximum	64	74	64	62	65	58	68	70	66	68	57	63	61	77	71	66	65	62	67	66	75	78	77	85	60	74	80	82	77	84	80	69.9
	Minimum	51	58	49	44	44	49	41	41	41	50	34	34	39	47	53	51	51	48	51	48	44	47	52	57	53	52	46	48	54	59	61	48.3
Columbia	Maximum	73	73	67	60	75	72	62	69	71	73	56	65	59	78	79	69	63	81	70	68	75	77	76	80	63	69	77	81	76	80	79	71.5
	Minimum	61	63	52	46	48	46	43	40	49	43	40	38	47	52	62	56	53	49	53	47	44	54	58	62	54	51	47	52	58	60	62	51.3
Fayette	Maximum	69	74	69	62	70	69	61	68	67	73	57	64	62	76	74	67	65	79	73	66	74	76	75	84	68	71	77	81	76	78	78	71.1
	Minimum	59	52	51	45	45	47	40	40	46	50	37	38	44	50	58	56	54	49	57	49	45	47	58	64	54	51	45	50	55	58	60	50.1
Grant City	Maximum	64	66	64	63	68	59	59	70	64	57	53	61	62	73	68	65	67	79	62	63	75	74	75	75	66	72	75	76	74	81	76	67.9
	Minimum	57	55	49	42	43	45	40	40	48	38	31	34	45	50	51	50	49	55	42	45	45	50	61	53	51	45	45	53	56	57	56	47.8
Hannibal	Maximum	66	67	63	58	71	63	61	69	74	71	57	60	61	76	80	64	59	78	69	66	73	77	70	83	67	68	77	79	77	82	78	69.8
	Minimum	60	59	48	41	45	46	40	41	50	42	38	39	42	48	55	52	52	50	54	49	45	51	59	63	51	51	48	56	50	57	61	49.8
Kansas City Airport	Maximum	70	68	59	65	77	64	60	72	65	68	56	70	60	79	72	70	70	83	69	65	76	78	82	81	68	73	77	81	77	87	81	71.7
	Minimum	60	53	51	47	51	41	43	43	56	39	37	42	53	56	58	55	56	52	54	51	48	58	65	58	54	51	48	54	63	65	64	52.6
Kirksville	Maximum	63	63	61	60	67	59	57	67	68	69	55	60	64	74	70	65	62	77	74	63	73	75	70	79	74	71	79	79	76	81	79	68.9
	Minimum	57	60	50	40	43	44	40	40	50	45	34	36	43	51	58	54	53	48	57	47	45	53	57	61	51	52	48	55	50	57	62	49.7
Lawson	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
Louisiana	Maximum	72	73	69	60	73	70	61	69	75	70	68	63	61	76	79	67	62	79	78	66	74	75	74	81	75	70	80	80	77	82	78	72.2
	Minimum	59	61	55	45	45	54	44	39	47	56	42	37	37	48	53	55	55	53	56	47	47	44	56	65	56	53	45	48	43	55	63	50.4
Macon/	Maximum	65	70	65	61	69	58	60	67	70	71	55	63	62	75	77	67	59	78	68	64	73	75	72	81	62	72	79	82	77	81	80	69.6
	Minimum	54	58	52	43	42	53	41	41	46	53	35	37	42	49	55	56	55	47	52	48	45	51	57	48	53	52	49	54	49	56	63	49.5
Maryville	Maximum	64	63	62	64	67	61	58	69	66	57	52	59	61	72	66	68	64	80	72	63	74	75	75	73	67	72	75	78	74	80	77	68.0
	Minimum	58	52	49	43	45	44	40	38	46	38	30	35	45	51	50	49	55	47	54	44	42	52	62	55	51	46	49	55	57	58	54	48.2
Mexico/	Maximum	70	72	66	62	72	70	60	66	73	70	55	60	60	77	79	65	61	78	71	65	72	70	74	82	60	69	76	79	77	80	78	70.0
	Minimum	55	60	54	44	44	52	41	41	50	53	39	39	46	48	50	58	52	50	52	47	46	50	54	58	57	52	47	51	52	55	62	50.3
Moberly/	Maximum	67	71	65	..	70	62	61	67	68	70	61	62	61	76	77	65	61	78	72	65	72	75	73	82	..	*71*	84	79	73	79	78	[b]70.5
	Minimum	55	59	52	43	..	44	39	39	49	55	36	39	43	51	58	57	52	47	46	47	43	51	59	61	54	..	45	51	51	51	63	[b]49.7
Oregon	Maximum	64	62	62	66	71	67	60	72	61	59	55	64	61	74	65	69	68	82	73	66	76	76	80	78	71	74	77	80	76	83	79	70.0
	Minimum	58	49	49	45	41	44	43	38	39	38	31	37	47	51	52	53	57	49	54	47	44	55	61	55	51	49	49	56	59	57	57	48.9
St. Charles/	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
St. Joseph	Maximum	65	63	62	65	66	57	61	71	63	64	56	66	58	76	66	72	68	82	68	66	77	77	80	78	69	74	78	81	77	85	81	70.1
	Minimum	59	52	49	46	48	44	43	43	53	38	33	38	49	55	56	52	54	52	55	50	47	56	60	56	53	49	48	57	61	61	61	50.9
Trenton	Maximum	63	63	60	64	66	62	60	70	68	65	57	61	62	75	72	68	66	81	75	66	75	76	76	79	73	74	78	82	77	83	78	70.2
	Minimum	47	58	50	44	48	49	42	47	51	50	33	38	45	50	54	58	53	49	57	49	47	50	61	59	53	51	47	46	56	58	60	50.3
Unionville/	Maximum	62	62	65	62	67	52	59	70	70	65	57	62	64	74	69	68	62	77	65	64	74	75	75	78	58	70	77	80	75	81	77	68.3
	Minimum	49	56	50	39	40	45	39	40	44	54	31	33	40	45	53	50	52	45	54	42	42	42	56	55	49	48	45	50	48	55	57	46.7
Warrenton	Maximum	72	72	71	65	75	77	64	70	74	74	65	65	63	77	79	71	71	78	76	78	74	75	72	79	68	68	77	78	76	80	75	72.9
	Minimum	59	59	57	45	44	50	42	36	45	54	39	34	42	48	52	54	50	47	57	46	41	46	55	63	54	52	45	50	44	54	58	49.1
Keokuk, Iowa	Maximum	63	64	62	58	66	59	58	68	74	68	55	60	64	74	74	66	60	78	69	63	72	75	68	81	64	69	80	78	76	82	83	68.7
	Minimum	58	59	46	42	47	46	42	42	53	40	36	40	44	50	59	52	51	51	53	49	46	58	59	64	53	52	52	57	51	60	65	50.9
Southwestern Division																																	
Clinton	Maximum	75	73	63	65	78	72	65	70	72	73	58	69	65	81	78	71	72	81	68	69	76	78	82	87	72	75	77	82	80	78	75	73.6
	Minimum	62	56	51	49	48	44	44	40	50	41	40	39	44	51	60	58	54	50	54	50	45	51	63	63	52	49	46	53	58	60	60	51.1
Eldon	Maximum	74	74	69	62	74	77	65	68	69	73	66	66	64	77	77	68	66	78	70	67	73	75	76	76	67	71	75	80	76	79	76	71.9
	Minimum	61	60	53	46	46	51	42	43	47	57	40	40	45	48	59	59	57	50	58	49	47	50	59	66	55	51	49	52	54	58	60	52.0
Harrisonville/	Maximum	76	70	59	65	75	69	64	69	69	70	58	66	61	78	78	73	72	81	68	68	69	69	73	75	62	69	69	72	70	83	77	70.2
	Minimum	53	55	46	45	44	52	38	38	44	54	34	37	45	50	55	54	56	46	56	45	41	51	59	55	51	45	47	55	58	59	57	49.2
Jefferson City	Maximum	70	72	69	70	83	82	69	77	71	71	66	67	60	77	80	71	65	79	73	67	75	77	76	78	66	71	77	80	77	81	76	73.3
	Minimum	60	57	53	46	44	48	41	38	43	55	40	35	42	46	53	58	54	47	55	46	42	44	56	64	54	52	43	46	50	55	59	49.2
Joplin	Maximum	77	70	64	64	72	78	62	69	67	72	56	68	63	78	72	71	74	79	71	67	72	76	80	82	73	73	75	78	79	76	71	71.9
	Minimum	62	59	52	53	51	50	46	46	55	43	40	41	54	60	63	61	60	56	59	54	49	56	65	67	57	53	53	58	64	63	62	55.2
Lamar/	Maximum	78	73	61	63	74	79	62	68	67	67	57	67	63	78	74	73	72	78	69	69	73	77	80	82	73	72	75	79	80	77	72	72.0
	Minimum	56	57	48	49	45	49	42	39	39	52	39	36	47	52	58	58	58	48	49	50	45	47	55	62	55	47	45	47	56	61	58	50.0
Lebanon/	Maximum	77	78	67	58	73	77	62	68	68	70	58	69	64	77	76	70	68	77	74	66	73	74	75	73	69	65	71	79	77	81	74	71.3
	Minimum	58	59	52	48	44	48	43	38	44	52	39	34	40	51	57	57	56	46	50	48	43	48	55	60	56	49	43	48	55	59	58	49.6
Lexington/	Maximum	67	74	60	66	74	65	64	70	64	72	59	66	60	78	77	68	71	81	67	68	77	78	81	84	68	77	80	83	78	86	80	72.4
	Minimum	52	60	48	46	47	53	42	43	49	56	36	40	43	49	57	57	56	52	55	47	47	52	63	60	54	50	56	54	57	60	61	51.7
Marshall	Maximum	67	73	70	61	63	72	60	67	68	71	57	62	60	76	76	69	72	80	79	63	73	71	78	85	75	71	78	80	78	82	78	71.5
	Minimum	60	59	49	45	47	47	41	42	50	52	37	42	45	52	59	56	56	50	58	49	63	57	51	61	54	53	49	51	56	59	60	51.9
Mountain Grove	Maximum	74	75	72	61	71	77	73	68	67	66	64	69	67	73	73	73	69	77	75	68	73	73	72	80	68	67	75	76	75	80	74	71.8
	Minimum	58	62	53	49	44	52	45	39	44	57	40	35	49	53	60	56	57	47	56	52	45	50	57	53	57	48	45	53	56	58	58	51.2
Neosho	Maximum	80	77	66	64	75	80	76	71	69	74	71	69	68	80	79	74	74	80	78	68	74	77	80	85	73	74	75	80	81	80	72	75.0
	Minimum	56	57	50	52	45	51	46	38	46	56	41	33	47	55	59	56	52	45	59	53	40	50	63	71	56	44	43	48	56	53	59	51.0
Nevada	Maximum	83	76	62	66	76	79	65	73	70	72	72	71	63	81	73	78	75	82	66	69	78	79	83	86	78	76	80	84	84	75	76	75.2
	Minimum	60	57	48	50	46	50	41	38	47	58	40	35	48	53	58	55	55	46	52	51	42	50	64	65	54	45	46	52	59	59	58	51.0
Sedalia	Maximum	70	72	68	60	76	73	61	68	68	67	57	74	64	77	75	69	68	79	76	66	74	76	78	85	70	72	76	80	78	78	76	72.0
	Minimum	60	59	49	45	47	49	40	39	48	56	38	38	46	50	61	56	57	49	58	47	45	53	61	64	55	49	45	53	55	59	60	51.3
Springfield, 4 mi. NW	Maximum	77	76	65	58	72	78	61	66	63	69	55	67	61	80	72	71	68	79	72	65	74	74	76	84	68	68	73	77	78	78	72	70.9
	Minimum	59	56	52	46	44	51	43	41	47	43	39	37	51	55	58	57	53	48	56	49	45	51	60	61	51	47	49	53	57	58	59	50.8
Warrensburg	Maximum	71	75	68	63	76	73	64	70	79	71	58	66	63	79	77	71	70	80	75	67	74	78	81	83	74	74	77	81	79	81	80	71.0
	Minimum	60	59	48	46	46	49	41	42	51	54	37	40	48	53	59	56	57	50	56	49	46	53	63	61	54	50	..	54	58	58	60	[a]51.9
Southeastern Division																																	
Arcadia/	Maximum	65	80	75	57	75	80	67	70	73	68	53	73	60	77	73	74	65	80	78	68	75	75	70	76	61	62	76	74	76	80	73	71.3
	Minimum	58	60	54	52	39	40	49	39	39	39	46	35	35	44	48	54	53	50	50	54	45	44	45	57	59	58	50	48	44	44	53	47.9
Birch Tree, ½ mile E	Maximum	72	..	75	65	73	..	77	75	68	63	52	70	..	..	..	..	..	..	..	69	75	75	72	..	..	80	76	81	77	..	..	[m]71.9
	Minimum	50	..	54	42	36	49	50	40	39	50	44	34	..	..	..	..	..	..	..	50	40	42	58	..	..	47	45	49	52	..	..	[l]45.8
Caruthersville	Maximum	68	79	76	69	72	79	74	72	76	80	75	70	67	81	74	76	81	81	76	71	71	77	75	80	79	66	78	78	78	84	80	75.6
	Minimum	60	63	62	55	45	55	58	46	47	60	52	50	52	55	63	62	60	56	60	49	50	53	60	65	62	58	58	57	58	61	62	56.6
Crystal City	Maximum	70	77	78	73	77	82	75	70	78	75	66	69	61	78	81	73	67	80	70	77	77	78	77	81	77	61	71	81	78	82	80	74.8
	Minimum	62	61	60	49	42	48	50	40	42	56	44	37	44	50	54	60	52	50	53	58	44	46	55	67	60	53	50	51	46	53	63	51.6
Doniphan	Maximum	69	81	76	78	75	82	75	74	77	80	69	73	67	84	79	80	81	83	78	71	79	78	70	82	80	67	80	83	83	86	80	77.4
	Minimum	62	62	58	52	38	50	55	37	39	58	49	41	46	50	55	60	58	47	55	58	41	43	56	65	61	47	50	52	50	55	63	52.0
Farmington	Maximum	64	77	75	65	73	79	68	68	74	70	64	68	60	76	71	68	65	79	75	68	73	74	70	77	68	60	73	77	78	79	74	71.3
	Minimum	60	60	57	47	40	50	49	41	40	56	42	37	44	50	55	59	50	52	54	53	45	47	56	63	58	51	51	50	45	54	61	50.9
Jackson	Maximum	66	79	76	68	72	77	71	74	76	75	66	72	64	81	78	72	75	82	77	72	77	78	70	72	74	64	77	81	80	83	78	74.4
	Minimum	59	62	62	52	39	49	53	41	41	57	48	40	46	51	58	61	53	51	59	59	45	45	59	64	61	50	55	51	48	56	66	52.9
Poplar Bluff	Maximum	66	80	76	72	72	80	75	73	74	77	72	71	68	80	78	78	79	83	78	72	78	76	73	80	78	67	77	83	79	84	80	76.1
	Minimum	61	62	59	53	42	52	56	44	44	56	50	45	64	52	58	60	57	53	61	60	46	48	57	65	59	51	55	56	51	58	65	54.8
Rolla/	Maximum	74	76	70	68	75	79	63	68	72	74	60	68	65	77	78	69	68	79	75	66	74	76	74	69	65	67	74	79	77	82	73	72.1
	Minimum	60	60	55	47	42	49	44	40	45	56	39	37	45	51	57	57	54	47	57	50	44	47	58	60	57	50	48	52	53	56	60	50.9
St. Louis	Maximum	66	73	70	57	75	79	62	67	75	73	57	65	58	76	79	62	60	78	73	66	73	75	70	77	66	63	74	79	75	80	76	70.3
	Minimum	61	62	55	47	49	54	50	47	52	57	43	44	49	54	62	55	55	55	60	54	50	56	58	64	54	51	55	59	59	61	63	54.7
Salem/	Maximum	74	75	71	59	75	80	65	79	72	72	61	68	62	75	77	69	66	83	78	70	77	76	73	80	66	66	75	81	78	82	75	72.6
	Minimum	59	61	54	51	41	50	42	39	40	48	41	34	44	50	55	57	56	48	51	51	44	47	55	50	60	51	44	47	49	56	60	49.5
Sikeston/	Maximum	66	80	76	65	72	78	69	72	76	78	56	70	66	82	75	73	79	80	81	68	76	77	70	74	77	66	76	80	78	84	79	74.2
	Minimum	60	60	60	54	45	51	56	43	47	57	54	46	50	54	62	62	57	53	59	60	47	51	59	62	61	50	57	55	53	60	67	55.2
Union, 1½ mi. SE	Maximum	74	72	73	67	77	80	69	69	75	75	72	67	65	77	80	71	65	79	78	74	76	76	73	80	67	67	76	79	77	81	76	73.8
	Minimum	61	60	59	48	41	47	46	39	41	56	42	34	41	49	52	59	53	50	55	50	43	44	53	62	56	54	48	49	44	55	61	50.1
West Plains	Maximum	73	77	70	60	71	78	69	71	67	74	61	70	64	75	68	77	74	80	77	68	76	75	72	81	70	65	76	80	77	82	76	72.7
	Minimum	60	57	54	41	37	51	43	38	40	58	42	36	47	51	52	58	52	45	59	46	41	43	60	60	50	45	45	49	51	55	61	49.3
Cairo, Ill.	Maximum	66	80	77	64	74	79	69	72	75	76	66	71	65	83	77	73	78	82	81	66	77	77	68	75	76	65	73	79	77	83	78	74.3
	Minimum	62	65	63	50	48	55	54	49	51	58	51	48	52	56	64	60	58	57	63	58	53	54	61	62	59	54	59	59	57	62	69	57.1

/ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs. [a], [b], [c], etc., number of days missing, for example, [b] indicates two days missing. Italics data interpolated. § Partly interpolated.

Missouri Storms, May 1946

County	Date	Time	Nature of storm	Storm moved from	Width of path (miles)	Length of path (miles)	Loss of life	Property damage (estimated)	Remarks
Northwest Platte..	23	About 6:00 p.m.	Moderate to light hail	nw.	2	2	0	Slight	Occurred in Marshall, Weston and Green townships. Stones ranged in size from hazelnuts to black walnuts. No crop damage. Accompanied by considerable wind and rain.
Nodaway..........	23	Between 6 and 7 p.m.	Moderate hail	sw.	2	10	0	Very little	Occurred at Burlington Junction and eastward to 8 miles northwest of Maryville. Stones were from $\frac{1}{4}$ to $1\frac{1}{4}$ inches in diameter; a few 11 inches in circumference were reported. Hard hail also reported near Ravenwood. Wheat, oats, and rye were damaged. Storm was accompanied or preceded by tornadic winds.
Atchison, Andrew, Holt and Nodaway	23	Between 5 and 7 p.m.	Tornadoes and straight-line winds	sw.	$\frac{1}{8}$ to $\frac{3}{4}$	About 40	0	From $180,000 to $270,000	A series of tornadoes and windstorms prevailed over portions of the four counties, with Nodaway County suffering the greater part of the damage. Altogether four persons were injured, none seriously. Damage was mostly in rural areas to farm homes, outbuildings, barns, trees and comunication and power lines. Places near which the storms struck and where most of the damage occurred were Craig, Mound City, and Oregon in Holt County; Arkoe, Bedison, Burlington Junction, Pickering, Skidmore, Ravenwood, and Wilcox in Nodaway County, Rosedale, Clay township in Andrew County; and in the southeast corner of Atchison County. Crop damage in Nodaway County was estimated at $30,000 to $50,000. Considerable livestock and poultry were killed or injured.
La Fayette, Ray and Carroll........	23	6:30 p.m. to midnight	Tornado	sw.	100 to 600 feet	About 50 to 60	0	$504,650	Occurred at Napoleon and vicinity, in La Fayette County; at Richmond and in southeast Ray County; at Stet, Carrollton and in Prairie, Leslie and Ridge townships, and at Tina in Carroll County. Storm was accompanied by light hail. except at Tina. Thirteen persons were injured. Damage was to houses, barns, outbuildings, corn and hay in storage, gardens and some livestock. No crop loss, except to those in storage and to gardens. It was reported that three storms occurred in Carroll County, all occurring very closely together.
Jackson	23	6:25 p.m. to about 6:40 p.m.	Tornado	sw.	$\frac{1}{3}$	About 11	2	$290,000	Storm originated a little south of Martin City and moved north-northeast through Holmes Park to the southeast corner of Swope Park, at 67th St., and Route 50. Storm was accompanied by light hail. Many buildings destroyed or damaged; 8 head of cattle and several hundred chickens killed; trees uprooted or broken; one person was seriously injured. Damage to crops in fields $2,500; in storage $10,000; to livestock and poultry $2,500 with balance of total to property. Much damage also to telephone lines.
Platte	23	7:30 p.m. to about 7:38 p.m.	Tornado	sw.	200 feet	5	0	$5,000	Originated about 5 miles southwest of Barry and moved northeastwardly to the east side of Barry. Damage was to buildings, trees, telephone and power lines. Several ckickens were killed. No persons were injured in this storm.
Phelps	24	11:00 a.m. to 11:30 a.m.	Straight-line winds and heavy hail	sw.	Narrow	Several	0	Small	Occurred at Rolla and vicinity. Wind damage to trees. Crop damage from hail estimated at $2,000 to corn, wheat, and gardens. Hailstones were approximately $\frac{1}{2}$ inch in diameter and drifted in places to a depth of 8 inches and remained there for 24 hours.

WBO, St. Louis. 8-22-46—1000.

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U. S. DEPARTMENT OF COMMERCE, WEATHER BUREAU

CLIMATOLOGICAL DATA

MISSOURI SECTION

H. F. WAHLGREN
ST. LOUIS, MO.

Vol. L   June 1946   No. 6

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GENERAL SUMMARY

The past month averaged slightly warmer and considerably drier than normal, for the State as a whole. It was a favorable month for crop growth and development and for most outdoor activities.

The unusually cool, wet weather, which prevailed during the preceding month of May, gave way to much warmer and drier weather after the first few days of June and the remainder of the month averaged considerably warmer than normal, although no unusually high temperatures were reported. The 16th and 17th were generally the warmest days of the month and several cases of heat prostration were reported. The only decidedly cool period occurred during the first four or five days of the month, the 3d and 4th being the coldest days, as a rule, with minimum temperatures ranging from the high 30's to the middle 40's, generally. A moderately cool period prevailed on 20th and 21st. Each of the three divisions of the State had monthly temperature averages of less than 1° above their respective normals; however, several individual stations, in scattered areas of the State, averaged cooler than normal.

Precipitation was irregularly distributed during June, ranging from a monthly total of 9.19 inches at Edgerton to only 0.35 inch at East End. Showers occurred on an average of only 6 days, over the State as a whole, compared to 14 days during May, thus permitting resumption of the cultivation of field crops, which had been seriously curtailed by the wet weather during May. The Northern Division received the greatest amount of rain during June, the average being 3.93 inches, which is only 0.87 inch less than normal. The Southeastern Division received the least rainfall, the average being 1.78 inches, or 2.52 inches less than normal. The average for the Southwestern Division was 2.44 inches, or 2.62 inches below normal. Rather heavy rainfall, three to more than four inches in a 24-hour period, occurred locally on the 29-30th in each of the three divisions of the State, the greatest amount being 4.10 inches at Cassville.

A moderate flood occurred in the Mississippi River, in the reach from the Iowa-Missouri border to Dam No. 25, from the 19th to 27th, while minor overflows occurred in portions of the Grand and St. Francis rivers.

Severe or damaging storms were relatively few during the month and these are tabulated elsewhere in this issue.

The warmer and drier weather, which set in after the first few days of June, greatly aided all growing crops, except pastures, and allowed cultivation of fields that had become weedy and grassy during May, due to persistent unusually cool and wet weather. Corn planting was mostly completed during the month, with considerable replanting necessary because of poor stands and weedy and grassy fields. The crop made good progress after the first week, and was well cultivated and growing nicely by the end of the month, although it was in need of more rain, at that time, in some areas. In the southern part of the State, some fields were in the silk and tassel stage as the month closed. Wheat and oats made excellent progress during the month, and harvest of barley and wheat began during the first few days of June, which is about two or three weeks earlier

(Continued on page 43)

PRESSURE, WIND, HUMIDITY, AND SUNSHINE

Stations	Sea-level pressure, extremes-inches				Wind				Relative humidity				Percentage of sunshine	Degree days
	Highest	Date	Lowest	Date	Average hourly velocity	Maximum velocity ¶	Direction of maximum	Date	12:30 a. m.	6:30 a. m.	12:30 p. m.	6:30 p. m.		
Columbia	30 36*	4	29.73*	12	7.0	24	ne.	1	75*	81*	54*	56*	80	30
K. C. Airport	30.37	3	29.68	7	12.4	34	nw.	28	67	76	52	48	79	27
St. Joseph	30.36*	4	29.62*	6	9.0	30	nw.	28	74*	81*	55*	52*	71	33
St. Louis	30.33*	4	29.74*	12	12.4	32	s.	7	72*	74	51	54*	80	19
Springfield	30.35	4	29.79	1	11.3	40	ne.	30	84	88	57	60	84	30
Cairo, Ill.	30.31	5	29.76	1	8.3	34	s.	30	..	81	53	..	78	5
.....	.....	..	.....	..	....	..	......	..	..	..	..	..	..	....

* Data for Airport station.   ¶ For 5-minute period.

COMPARATIVE DATA FOR JUNE

Year	Temperature			Precipitation					Number of days			
	Average for State	Highest	Lowest	Average for State	Average, Northern Division	Average, Southwestern Division	Average, Southeastern Division	Snowfall, Average for State	Precip. .01 inch or more	Clear	Partly cloudy	Cloudy
1888	72.6	103	36	5.81	5.98	5.96	5.50	0	7	..	..	..
1889	70.7	100	38	4.66	4.29	4.57	5.13	0	6	..	..	..
1890	77.2	106	44	2.45	3.14	2.49	1.71	0	6	..	..	..
1891	73.2	103	46	6.56	5.61	7.99	6.08	0	13	..	..	..
1892	74.5	100	45	3.09	3.04	3.72	2.52	0	7	15	9	6
1893	72.6	98	40	4.72	4.92	3.91	5.32	0	9	12	12	6
1894	74.5	105	35	3.74	4.28	4.92	2.03	0	7	16	11	3
1895	73.3	100	42	5.87	6.07	6.33	5.20	0	10	12	11	7
1896	72.5	101	45	3.98	3.32	3.63	5.00	0	9	12	11	7
1897	73.6	102	38	6.25	6.49	5.74	6.51	0	12	9	14	7
1898	75.3	100	49	5.92	6.32	6.54	4.90	0	11	13	12	5
1899	74.3	101	42	3.92	3.71	4.83	3.21	0	9	15	10	5
1900	73.3	103	44	5.05	3.71	5.06	6.37	0	10	12	12	6
1901	77.9	106	40	2.02	2.67	1.47	1.92	0	6	18	10	2
1902	70.9	100	37	6.42	6.64	6.95	5.68	0	12	11	10	9
1903	67.3	95	36	3.28	2.96	3.78	3.09	0	9	15	9	6
1904	70.5	93	45	6.68	5.31	8.23	6.51	0	11	12	12	6
1905	75.2	103	42	3.14	2.84	3.06	3.52	0	7	15	10	5
1906	72.7	101	40	4.82	3.28	6.62	4.55	0	10	15	9	6
1907	71.2	97	40	5.47	5.76	6.40	4.24	0	11	14	10	6
1908	72.3	98	43	6.01	6.92	6.78	4.33	0	11	13	10	7
1909	73.9	98	48	5.23	5.96	5.78	3.95	0	11	11	13	6
1910	70.4	99	38	4.11	3.08	4.69	4.57	0	8	16	7	7
1911	78.9	112	43	1.76	0.93	1.59	2.77	0	6	18	8	4
1912	69.5	100	42	4.77	3.31	5.39	5.62	0	9	14	8	8
1913	75.4	107	33	2.55	3.01	2.31	2.32	0	6	18	8	4
1914	79.3	106	43	2.26	3.11	2.50	1.17	0	5	18	7	5
1915	70.8	98	38	6.45	7.53	7.24	4.57	0	12	11	10	9
1916	70.0	100	42	5.86	5.05	6.50	6.04	0	10	14	9	7
1917	71.0	103	35	3.67	5.72	2.20	3.10	0	8	19	7	4
1918	77.2	110	48	3.09	3.04	3.20	3.04	0	7	17	8	5
1919	75.0	104	44	5.58	5.04	6.24	5.47	0	11	14	10	6
1920	72.7	104	41	2.35	3.09	2.14	1.83	0	6	18	7	5
1921	76.6	105	44	5.81	4.74	7.74	4.96	0	12	12	10	8
1922	76.5	108	43	1.61	1.72	1.39	1.72	0	5	19	8	3
1923	73.5	103	45	5.56	5.30	6.52	4.87	0	11	14	9	7
1924	72.5	101	38	7.27	8.53	7.70	5.57	0	14	12	12	6
1925	76.5	103	46	5.99	7.68	4.99	5.31	0	9	15	10	5
1926	70.9	101	37	3.60	5.02	3.79	1.99	0	8	15	9	6
1927	70.3	99	41	5.81	5.38	6.77	5.28	0	10	15	7	8
1928	67.7	91	40	11.25	8.59	11.03	14.12	0	15	8	11	11
1929	71.3	99	39	5.69	6.57	5.98	4.52	0	10	16	8	6
1930	72.4	109	36	3.77	5.17	4.63	1.52	0	7	18	8	4
1931	77.1	107	40	2.75	4.09	1.81	2.35	0	6	19	8	3
1932	75.2	103	47	4.81	5.53	6.09	2.82	0	10	12	12	6
1933	78.4	107	38	1.47	2.89	0.92	0.61	0	3	22	6	2
1934	80.4	108	47	2.82	2.92	2.72	2.83	0	7	17	10	3
1935	69.6	98	39	8.95	6.73	11.06	9.07	0	15	9	12	9
1936	76.5	112	40	1.42	1.30	1.38	1.57	0	4	21	6	3
1937	74.4	105	43	4.93	3.43	5.79	5.56	0	10	14	10	6
1938	72.4	98	44	4.77	4.20	5.04	5.06	0	10	13	11	6
1939	74.6	99	41	5.64	7.70	5.38	3.83	0	12	11	13	6
1940	73.5	98	44	4.36	4.24	5.10	3.75	0	8	13	10	7
1941	74.1	103	43	4.23	4.79	5.12	2.78	0	9	14	9	7
1942	73 3	98	35	7.70	8.01	8.45	6.64	0	14	9	10	11
1943	75.8	101	43	6.39	7.58	7.06	4.54	0	12	12	11	7
1944	76.4	107	39	2.55	2.55	3.48	1.62	0	7	16	10	4
1945	69.5	95	37	8.84	8.22	7.29	11.02	0	14	7	11	12
1946	73.9	104	37	2.72	3.93	2.44	1.78	0	6	17	8	5
.....	....	..	..	....	....	....	....	....	..	..	..	..
.....	....	..	..	....	....	....	....	....	..	..	..	..
Period	73.6	112	33	4.72	4.80	5.06	4.30	0	9	14	10	6

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Climatological Data for June 1946

Stations	Counties	Elevation, feet	Temperature, in degrees Fahr.							Precipitation, in inches						Number of days				Prevailing direction of wind	Observers
			Length of record, years	Mean	Departure from the normal	Highest	Date	Lowest	Date	Length of record, years	Total	Departure from the normal	Greatest in 24 hours [4]	Date	Total snowfall, unmelted	With precip., .01 inch or more	Clear	Partly cloudy	Cloudy		
Northern Division																					
Albany	Gentry	930	5	71.5[a]	......	98[a]	16	38[a]	4	17	6.13	+0.89	2.36	18–19	0	9	6[b]	21[b]	1[b]	s.	Curtis E. Grace
Amity	DeKalb	1,007	0	73.8	......	99	16†	43	3†	11	5.68	−1.32	2.72	18–19	0	6	16	7	7	sw.	O. M. Colhour
Bethany	Harrison	916	51	72.4	+ 0.4	99	17	39	3†	53	8.10	+3.04	2.68	29–30	0	7	22	2	6	se.	B. A. McGregor
Brookfield	Linn	767	5	73.8	......	98	17	43	4	5	5.31	......	2.51	29–30	0	11	20	7	3	s.	G. F. Breen
Brunswick	Chariton	652	65	73.8	+ 0.8	95	16†	44	3†	67	3.22	−1.89	1.67	14–15	0	7	17	8	5	sw.	O. K. Benecke
Canton, Lock & Dam 20	Lewis	488	8	72.4	......	97	25	42	3†	16	1.78	−3.00	0.88	15	0	9	17	7	6	sw.	Lockmaster
Chillicothe	Livingston	779	37	73.4	+ 1.1	97	16	43	4	40	6.05	+1.32	2.42	14–15	0	8	27	0	3	ne.	Wm. J. Olenhouse
Clifton Hill	Randolph	731	47	....	......	..	..	..	..	37	....	......	....	..	.	..	..	..	..	......	Dr. A J. Bradsher
Columbia	Boone	740	56	74.6	+ 1.2	95	16	44	4	56	2.23	−2.53	1.10	1–2	0	7	19	9	2	s.	U. S. Weather Bureau
Conception	Nodaway	1,108	57	73.8	+ 2.3	101	16	43	3	62	4.73	−0.22	1.53	18†	0	5	17	8	5	s.	Fr. Adelhelm Hess
Edgerton	Platte	856	26	74.5	+ 2.6	102	17	37	3†	43	9.19	+4.32	....	..	0	6	20	5	5	s.	W. A. Foster
Elsberry	Lincoln	449	15	72.7	− 1.7	95	17	39	4	15	2.34	−1.10	1.45	19–20	0	6	18	7	5	nw.	Soil Conservation Service
Fayette	Howard	760	66	72.8	0.0	94	16	43	4	63	3.83	−0.74	1.38	15	0	8	19	5	6	s.	Irvin E. Schnell
Fulton	Callaway	818	58	74.0	+ 0.8	94	16†	45	4	54	1.72	−2.68	0.69	19	0	4	26	1	3	sw.	Frank E. Hillgartner
Grant City	Worth	1,134	42	72.0	+ 1.2	99	16	43	4	54	4.83	−0.17	1.62	18–19	0	7	20	4	6	s.	J. Homer Korn
Hannibal	Marion	759	54	72.9	+ 0.4	92	16†	44	3	62	3.34	−0.56	2.03	18	0	9	11	12	7	sw.	Hannibal Water Dept.
Kansas City Airport	Jackson	741	57	76.2	+ 2.6	102	16	46	4	57	4.37	−0.31	1.88	18–19	0	6	14	9	7	s.	U. S. Weather Bureau
Kansas City Univ.	Jackson	908	8	78.1	......	103	16	43	4	8	4.19	......	1.76	18–19	0	5	10	15	5	sw.	University of Kansas City
Kidder	Caldwell	1,020	54	72.0	+ 0.2	97	16†	40	3	58	4.71	−0.26	1.68	24–25	0	8	21	1	8	sw	Mrs. Geraldine Terry
Kirksville	Adair	969	57	72.6	+ 0.9	92	16†	45	2†	64	2.85	−2.21	1.85	15	0	8	20	5	5	se.	Dr. Willis J. Bray
Knoxville	Ray	960	1	73.4[c]	......	95[c]	16	44[c]	3	2	7.69§	......	3.05	15	0	10	9[a]	9[a]	11[a]	sw.	C. A. A. Station
Lawson	Ray	1,070	8	....	......	..	..	..	..	8	....	......	....	..	.	..	..	..	..	......	Elmer E. Lamb
Louisiana	Pike	469	52	72.9	+ 0.8	93	16†	39	4	65	3.13	−1.10	1.35	18	0	9	20	8	2	s.	Stark Bro's Nurseries
Macon	Macon	875	47	72.9	+ 0.5	95	27	44	3	53	3.39	−1.33	0.88	29–30	0	9	15	5	10	nw.	John W. Atwell
Maryville	Nodaway	1,169	56	72.8	+ 3.0	102	16	44	2†	52	4.27	−0.84	1.67	18–19	0	8	20	4	6	sw.	R. B. Montomery
Memphis	Scotland	787	7	72.2	......	95	27	43	3†	16	3.37	−1.76	1.23	15	0	6	20	3	7	sw.	John W. Alexander
Mexico	Audrain	800	57	72.8	− 0.4	93	16†	42	4	68	2.44	−2.30	0.79	18	0	8	20	5	5	s.	Darrence W. Stuart
Moberly .....3½ mi. NE	Randolph	860	9	72.6	− 5.0	94	16	42	2	9	4.51	−0.45	2.07	29–30	0	9	13	14	3	s.	F. W. Bell
New Florence. 1 mi SE	Montgomery	885	3	72.0	......	92	16	45	4	4	1.34	......	0.62	19	0	6	10	12	8	sw.	U. S. Weather Bureau
Oregon	Holt	1,048	90	73.8[d]	+ 1.6	101	15†	45[g]	2†	90	5.69	+0.32	2.84	18–19	0	5	22	2	6	s.	James M. Curry
St. Charles	St. Charles	520	58	....	......	..	..	..	..	68	....	......	....	..	.	..	..	..	..	......	....
St. Joseph	Buchanan	957	36	75.1	+ 1.4	101	16	46	4	74	4.22	−0.73	1.72	18–19	0	6	23	1	6	s.	U. S. Weather Bureau
Saverton, Lock No. 22	Ralls	472	8	74.0	......	94	16	48	2†	8	4.64	......	2.94	18–19	0	8	21	4	5	sc.	Lockmaster
Shelbina	Shelby	779	5	72.6	......	93	16†	41	3	53	4.06	−0.42	1.22	15	0	7	21	4	5	sw.	Guyman Hatcher
Steffenville	Lewis	650	48	72.7	+ 0.1	92	11†	42	3	53	3.03	−1.51	1.00	12	0	10	17	8	5	sw.	Mrs. Fannie V. Gross
Tarkio	Atchison	916	43	72.4	+ 0.6	104	15	37	3	52	5.46	+0.50	2.38	18	0	8	16	7	7	s.	C. A. A. Station
Trenton	Grundy	822	50	73.8	+ 1.6	95	16†	45	3	51	6.67	+1.63	3.20	29–30	0	4	18	9	3	s.	W. H. Estes
Unionville	Putnam	1,062	53	70.8	− 0.5	93	17	42	3†	53	5.07	−0.12	2.15	14–15	0	9	19	9	2	s.	Mrs. Dora A. Wilson
Vandalia	Audrain	766	2	72.8	......	101	17†	41	3	7	2.61	......	1.28	18–19	0	8	19	4	7	s.	Mrs. Naomi K. Stoutz
Warrenton	Warren	816	64	73.0	− 0.4	93	17	39	4	56	3.04	−0.74	1.46	19–20	0	8	23	4	3	sw.	W. T. Zimmerman
Keokuk, Iowa	Lee, Ia	574	74	73.1	+ 0.6	94	17	45	2	74	3.35	−0.78	1.48	18	0	10	11	14	5	sw.	U. S. Weather Bureau
Division means	**and extremes**	.....	..	**73.2**	**+ 0.6**	**104**	**15**	**37**	**3†**	..	**3.93**	**−0.87**	**3.20**	**29–30**	**0**	**7**	**18**	**7**	**5**	**s.**	
Southwestern Division																					
Anderson ...1½ mi SW	McDonald	1,000	42	71.3[a]	− 1.4	92[a]	16†	40[a]	4	47	3.05	−2.88	1.25	30	0	6	22[a]	4[a]	3[a]	sw.	Samuel G. Chamberlain
Appleton City	St. Clair	813	51	73.7	− 0.7	95	16†	46	4	54	2.35	−2.67	1.20	18–19	0	7	18	7	5	sw.	Rolla Brown
Bolivar	Polk	1,071	43	74.2	+ 1.4	95	16†	46	4	51	1.47	−3.84	0.70	25	0	6	16	9	5	sw.	Southwest Baptist College
Boonville	Cooper	650	8	72.8	......	96	17	44	4	69	2.84	−2.21	1.97	15	0	4	16	9	5	s.	Boonville Water Dept.
Butler	Bates	865	0	75.7[e]	......	99[e]	16†	40[e]	3	5	1.62	......	....	..	0	6	15[e]	9[e]	1[e]	sw.	F. S. Wolf
Camdenton	Pulaski	940	0	75.2[a]	......	95[a]	16	46[a]	4	0	2.26	......	0.84	19	0	6	23[a]	2[a]	4[a]	s	L. C. Scott
Carthage	Jasper	962	12	74.1	......	95	16†	43	4	22	0.64	......	0.30	19	0	4	20	9	1	sw.	Carthage W. and E. Plant
Clinton	Henry	786	53	74.6	+ 0.8	97	15†	45	4	59	5.17	+0.27	1.65	8	0	9	16	10	4	s.	U. S. Weather Bureau
Eldon	Miller	934	51	73.8	+ 0.8	94	16	46	3†	47	2.55	−1.49	1.57	19	0	7	22	4	4	s.	Ira M. Wilson
Harrisonville	Cass	904	68	73.2	+ 0.1	97	15†	43	3	71	5.56	+0.77	2.44	18–19	0	8	18	2	10	se.	Jeffrey B. Patterson
Jefferson City	Cole	557	56	72.6	− 1.2	95	17	40	4	64	2.98	−1.25	1.18	19	0	7	20	5	5	s.	K. W. O. S. Radio Farm
Joplin	Jasper	1,008	24	74.9	+ 1.5	92	16	50	2†	41	1.84	−4.16	0.70	19	0	5	12	12	6	s.	Empire Dist. Electric Co.
Lakeside	Miller	595	15	74.6	− 0.4	97	16	42	4	15	2.57	−2.04	1.14	19–20	0	5	20	4	6	sw.	W. S. Frame
Lamar	Barton	980	58	73.5	− 0.7	93	15†	46	4	65	1.65	−3.89	1.55	19	0	2	24	4	2	sw.	Mrs. Marie Mann
Lebanon	Laclede	1,265	58	72.8	+ 0.1	93	16†	41	4	59	2.20	−2.97	0.82	19	0	5	15	8	7	sw.	Mrs. Rosa E. Montelius
Lexington	Lafayette	688	61	75.4	+ 2.5	100	16	44	3	62	2.42	−2.13	1.22	25	0	3	23	3	4	s.	Tilton Davis
Lockwood	Dade	1,078	40	75.2	+ 1.6	95	16†	45	4	50	0.87	−4.81	0.63	19–20	0	5	20	8	2	sw.	Hubert A. Nieman
Marshall	Saline	779	59	75.2	+ 2.0	95	16†	45	3†	56	2.00	−2.80	1.20	18–19	0	5	19	8	3	s.	Thomas A. Reid
Mountain Grove	Wright	1,463	45	72.5	+ 0.7	91	16†	42	4	49	1.41	−3.53	0.75	29–30	0	4	17	12	1	sw.	Mo. Fruit Exp. Station
Mount Vernon	Lawrence	1,174	34	75.0	+ 1.7	98	12	43	4	46	0.56	−4.70	0.39	30	0	4	12	15	3	sw.	James C. Williamson
Neosho	Newton	1,011	59	73.8	0.0	93	16†	42	4	63	2.03	−3.94	1.44	30	0	7	19	6	5	se.	U. S. Fisheries Station
Nevada	Vernon	862	53	75.1	+ 1.6	97	14†	44	3†	54	1.04	−4.41	0.80	19	0	3	18	10	2	sw.	Henry Kraft
Ozark Beach	Taney	700	6	74.3	......	96	17	45	4	21	1.76	−4.12	1.20	29–30	0	4	12	13	5	s.	Empire District Elec. Co.
Sedalia	Pettis	910	33	74.7	+ 0.5	97	16	42	3	35	1.24	−4.04	0.60	19	0	5	23	3	4	sw.	Dr. J. E. Cannaday
Seligman	Barry	1,542	45	72.4	0.0	92	16	46	4	43	4.60	−0 35	2.41	25–26	0	4	20	9	1	s.	Floyd E. Fawver
Seymour. 3½ miles NE	Webster	1,642	40	70.6	− 1.1	90	16	40	4	40	1.26	−4.08	0.86	21	0	4	20	7	3	s.	Ira H. Hailey
Springfield... 4 mi. NW	Greene	1,301	58	72.8	+ 1.1	93	17	45	4	58	2.35	−2.33	0.86	25	0	5	8	12	10	s.	U. S. Weather Bureau
Sweet Springs	Saline	700	5	74.4	......	97	16†	40	4	5	4.66	......	3.19	15	0	7	20	8	2	s.	H. F. Nelson
Warrensburg	Johnson	878	59	75.2[a]	+ 1.3	97[a]	15†	46[a]	3	66	1.78	−3.28	0.47	25	0	5	20	8	2	sw.	Central Teachers College
Warsaw	Benton	687	45	75.2	+ 1.4	98	15†	42	4	51	1.83	−3.47	0.85	24–25	0	5	15	11	4	sw.	Dora B. Johnson
Wasola	Ozark	1,294	5	73.4	......	93	16	48	4	6	1.29	......	0.95	26	0	2	19	10	1	s.	A. W. Pinckney
Waynesville	Pulaski	805	0	72.8	......	96	16†	38	4	0	1.63	......	0.60	31–1	0	7	23	5	2	s.	Jesse H. Barlow
Division means	**and extremes**	.....	..	**73.9**	**+ 0.6**	**100**	**16**	**38**	**4**	..	**2.44**	**−2.62**	**4.10**	**30**	**0**	**5**	**18**	**8**	**4**	**s.**	
Southeastern Division																					
Advance.... ¼ mile W	Stoddard	354	9	74.4	− 0.7	95	17	45	5	9	0.83	−3.47	0.48	25	0	4	13	7	10	sw.	U. S. Weather Bureau
Arcadia	Iron	926	65	72.5	+ 0.7	94	16	42	4†	68	2.04	−2.10	0.80	1–2	0	5	18	3	9	e.	Arcadia College
Birch Tree... ½ mile E	Shannon	1,000	51	....	......	..	..	42[m]	4	52	2.76§	−2.15	....	..	0	4	..	..	..	......	R. C. Moger
Black.......9 miles NW	Iron	1,000	53	70.8	− 1.1	92	16†	37	4	53	1.26	−2.80	0.67	30	0	6	22	4	4	sw.	Claude Volner
Campbell	Dunklin	314	20	71.2[a]	− 1.3	94[a]	17†	48[a]	4	20	1.98	−2.26	0.65	10	0	6	18[a]	10[a]	1[a]	s.	Mrs. Ruth Christian
Cape Girardeau	Cape Girardeau	347	1	77.0	......	94	16†	52	4	46	1.30	−3.00	0.50	29–30	0	6	10	11	9	sw.	Homer R. Bolen
Caruthersville	Pemiscot	265	50	76.4	− 2.0	94	16	51	3†	54	0.68	−3.13	0.51	30	0	4	22	3	5	sw.	Victor T. Malloure
Crystal City	Jefferson	420	12	75.6	+ 1.3	101	19	42	4	12	1.29	−4.13	0.67	1–2	0	8	13	8	9	sw.	Richard K. Ragland
Doniphan	Ripley	344	42	75.6	+ 0.6	96	16†	42	5	42	1.21	−3.15	0.70	29–30	0	4	24	1	5	se.	Boyce Lackey
Farmington	St. Francois	896	35	73.0	+ 0.2	93	16†	44	4†	49	1.40	−2.48	0.49	1	0	8	19	7	4	s.	F. M. Karsch
Greenville	Wayne	460	37	....	......	..	..	..	..	39	....	......	....	..	0	..	..	..	..	......	Beuford Shoemake
Jackson	Cape Girardeau	428	55	76.0	+ 1.9	96	16	45	4†	56	1.48	−3.21	0.85	30	0	4	17	7	6	sw.	Danny Siebert
Koshkonong	Oregon	958	45	74.0	− 0.4	92	15†	46	4	46	2.06	−2.44	0.81	25	0	6	16	9	5	se.	Mrs. Genevieve T. Smith

Continued on next page

Climatological Data for June 1946—Continued from preceding page

Stations	Counties	Elevation, feet	Temperature, in degrees, Fahr.							Precipitation, in inches						Number of days				Prevailing direction of wind	Observers
			Length of record, years	Mean	Departure from the normal	Highest	Date	Lowest	Date	Length of record, years	Total	Departure from the normal	Greatest in 24 hours[4]	Date	Total snowfall, unmelted	With precip., .01 inch or more	Clear	Partly cloudy	Cloudy		
Southeastern Division—	*Concluded*																				
Licking...... 4 miles N	Texas	1,170	9	71.6	− 1.4	91	16†	39	4	9	0.82	−3.74	0.23	30	0	4	19[a]	5[a]	5[a]	s.	Fern E. Austin
Marble Hill	Bollinger	532	51	75.2	+ 1.2	95	17	43	4†	53	3.54	−0.94	1.98	30	0	5	21	6	3	sw.	R. A. DeWitt
Poplar Bluff	Butler	339	41	75.6	+ 0.2	94	9	47	5	42	1.48	−2.64	0.57	25	0	7	18	6	6	sw.	Osmon M. Richardson
Rolla	Phelps	1,202	46	73.4	+ 0.4	93	16†	47	3†	62	2.85	−1.56	1.10	15	0	5	12	16	2	sw.	Rolla School of Mines
St. Louis:																					
City Office		465	109	76.3	+ 1.3	96	16	49	2	109	3.46	−0.36	2.05	1	0	6	14	12	4	s.	**Section Center**
St. Louis Airport	St. Louis	556	9	75.8	+ 1.8	96	16	49	2†	15	2.31	−1.98	1.11	19	0	7	9	9	12	sw.	U. S. Weather Bureau
St. Louis University	St. Louis City	578	34	76.2	+ 1.0	96	16	50	2	34	3.46	−0.13	1.22	18	0	6	21	5	4	se.	St. Louis University
Salem	Dent	1,206	42	73.8	+ 1.4	96	16	40	4	45	1.23	−3.42	0.56	29	0	3	18	9	3	s	E. E. Martin
Sikeston	Scott	318	39	76.8	+ 2.5	98	16	49	4†	49	0.91	−3.28	0.47	1	0	5	10	20	0	se.	Mrs. Lucy W. Humphreys
Union ....1½ mi. SE	Franklin	520	8	74.0	......	96	16†	40	3	29	1.87	−2.43	1.26	1–2	0	5	17	8	5	sw.	Cornelius Sieges
Vichy ....2 mi. NW	Maries	1,125	10	73.8	......	94	16	48	2	11	2.76	......	1.78	1–2	0	5	7	16	7	sw.	Civil Aeronautics Adm.
Wappapello Dam	Butler	475	7	75.6	......	93	17	50	4	7	1.68	......	1.33	25	0	4	22	3	5	sw.	U. S. Engineer Office
Webster Groves	St. Louis	507	0	72.9	......	93	16	45	5	1	2.09	......	0.89	18–19	0	7	21	7	2	se.	R. W. Lawrie
Weingarten	St. Genevieve	833	5	74.2	......	95	16	45	4	6	0.85	......	0.50	1	0	3	21	7	2	s.	William J. Miller
West Plains	Howell	1,005	9	72.6	− 0.8	93	16†	43	5	9	1.48	−3.48	0.68	25	0	5	11	9	10	s.	U. S. Weather Bureau
Willow Springs 500 ft E	Howell	1,238	5	72.6	......	92	17	44	5	39	3.19	−1.64	2.10	25	0	4	17	8	5	s.	Allen Frazee
Cairo, Ill.	Alexander, Ill.	314	74	78.0	+ 0.7	98	16	53	4	75	3.01	−0.82	2.94	30–1	0	4	9	12	9	sw.	U. S. Weather Bureau
Division means	**and extremes**	.....	..	74.6	+ 0.4	101	19	37	4	..	1.78	−2.52	3.60	29–30	0	5	16	8	6	sw.	
State means	**and extremes**	.....	..	73.9	+ 0.3	104	15	37	3†	..	2.72	−2.00	4.10	30	0	6	17	8	5	sw.	

The departures from normal temperature are computed from the averages of the entire period for stations having 10 or more years of record. Departures of precipitation for stations with 15 years or more of record are computed from a normal or "standard mean", adjusted to a uniform 35-year period; for stations of 10 to 14 years the means for the period of record are used. The normal may be found by adding the departures when minus (−) or subtracting when plus (+). Figures and letters following stations indicate distance in miles and direction of station from the city Post Office, unless otherwise indicated. T. Trace or 0.005 inch or less. [a], [b], [c], etc., number of days missing; for example, [b], indicates two days missing. Italics data interpolated. § Partly interpolated. † And other dates. ‡ Received too late to be included in means and summaries. [4] Best available used for stations not equipped with recorders. Post office address of: Altona is Adrian; Crane Mountain is Arcadia; East End is Goodland; Eastwood Lookout is Van Buren; Ellsinore Lookout is Mill Spring; Hailey is Cassville; High Lookout is Birch Tree; Macedonia Lookout is Doniphan; Perry is Center; Pilot Knob is Ironton; Wilderness Lookout is Lampe.

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than usual. Wheat harvest continued throughout the month, while oat harvest began about the middle and continued during the latter half. Yields of wheat and oats were generally better than expected; however, there was some damage to wheat in several areas by Hessian fly and rust. Planting of soybeans was started early in June and was mostly completed by the close of the month, with early planted fields making good progress, although in need of more moisture in the drier areas of the State. Hay harvest continued throughout most of the month, and a large quantity of good to excellent quality hay was saved. Cotton in the southeastern counties was in poor condition the first part of June, but made rapid progress during the latter half, after fields were cultivated and cleaned of grass and weeds. Some cotton fields had poor stands due to the cool, wet weather in May and early June. Pastures were not as good this month as in May and were in need of more rain in many parts of the State, after about the middle of the month. The rather sudden change from the cool, wet weather of May, and the first few days of June, to comparatively dry and hot weather after about the first week of June, proved unfavorable for pastures, in those areas where rainfall was inadequate. Fruit prospects continued good during June and the harvest of a fine crop of early peaches was under way during the second week.—M. R. W.

TEMPERATURE

The monthly mean for the State, 98 stations reporting, was 73.9°, or 0.3° above the 59-year June average. The highest monthly mean was 78.1° at Kansas City University, and the lowest was 70.6° at Seymour. The highest reported was 104° at Tarkio, on the 15th, and the lowest was 37° at Edgerton and Tarkio on the 3d and at Edgerton and near Black on the 4th.

PRECIPITATION

The average for the State, 206 stations reporting, was 2.72 inches, or 2.00 inches less than the 59-year June average. The greatest monthly amount was 9.19 inches at Edgerton, and the least was 0.35 inch at East End. The greatest amount reported in 24 hours was 4.10 inches at Cassville, on the 30th. The average number of days with 0.01 inch, or more, was 6.

MISCELLANEOUS PHENOMENA

Floods.—In Grand River, at Chillicothe, 20th to 21st. In Mississippi River, in the reach from Keokuk, Iowa to Dam No. 25, 19th to 27th; also on 1st, 16th to 17th, and on the 30th and continuing into July at Louisiana. In St. Francis River, at Fisk, continued from May to June 9th.

Fogs.—Heavy, 2d, 19th.

Hail.—Light, on 1st at Columbia and St. Louis; 10th at Campbell; 12th at Brunswick, Edina, Shelbina, and Keokuk, Iowa; 15th at Browning and in northeastern Cooper County; 19th at St. Louis University. Moderate, on 15th at Knoxville and locally in Sullivan County. (See special storm table). Heavy, on 10th near Campbell. (See special storm table).

Tornado.—On 30th. (See special storm table).

Windstorms.—1st, 10th, 18th, 19th, 28th. (See special storm table).

OBITUARY

Mr. Martin L. Comann, Cooperative Observer at the St. Charles station since September 12, 1933, died on June 6, 1946, at the age of 81 years. Mr. Comann served faithfully and well and gave gratuitously of his time and effort in adding nearly thirteen years of record, to the already long climatic record previously compiled for St. Charles. The Weather Bureau and the citizens of St. Charles will be forever indebted to him for his service in the interest of the general public.

ERRATA

April 1946, page 27: Greatest 24-hour precipitation and date at St. Louis Airport should be 1.00 on April 30th–May 1st.

May 1946, page 35: Greatest 24-hour precipitation at St. Louis(City Office) should be 2.26. Page 38: Wind movement on 4th at Columbia should be 91; total movement should be 1593.

October 1945, page 74: Mean temperature at Albany should be 54.4. Number of days with 0.01 inch, or more, of precipitation at Marshall and Seligman should be 4 and 7, respectively. Page 79: Mean minimum temperature at Mountain Grove should be 46.1.

May 1945, page 33: In comparative data table the number of partly cloudy and cloudy days should be 9 and 12, respectively.

Daily Precipitation for June 1946

Stations	Drainage basins	Day of month																															Total
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	..	
Northern Division																																	
Albany	Grand	T.	....	....	....	....	....	....	....	....	....	....	....	....	....	.11	....	.12	.85	2.36	T.	.01	....	....	.10	.82	....	....	....	.33	1.43	....	6.13
Amity	...do	....	T.	....	....	....	....	T.	....	....	....	....	T.	....	....	T.	....	....	.45	2.72	....	....	....	....	.30	.78	....	....	....	1.40	.03	....	5.68
Auxvasse	Missouri	.24	....	....	....	....	....	....	....	....	....	....	....	.03	....	.18	....	....	T.	.39	....	....	....	....	....	T.	....	....	....	.56	T.	....	1.40
Bethany	Grand	T.	T.	....	....	....	....	....	....	....	....	....	T.	....	....	.37	....	....	.44	2.52	....	....	T.	....	.22	.65	....	....	....	1.22	2.68	....	8.10
Bowling Green[2]	Mississippi	.17	....	....	....	....	....	....	....	....	....	....	....	.05	....	.02	.35	....	....	1.69	.46	....	....	....	....	....	....	....	....	.09	.11	....	2.94
Brookfield[2]	Grand	....	....	....	....	....	....	....	.25	....	....	....	....	.30	....	.25	.68	....	.25	*	.64	.25	....	....	....	.45	....	....	....	.25	1.99	....	5.31
Browning .....3 mi. NE	...do	T.	T.	....	....	....	....	....	.02	....	....	....	T.	....	....	.85	....	....	.03	.07	....	....	.02	....	.08	.36	....	....	....	1.81	.90	....	4.14
Brunswick[2]	...do	....	....	....	....	....	....	....	T.	.10	....	....	....	.43	....	1.67	....	....	....	.10	.12	....	....	....	....	.27	....	....	....	....	.53	....	3.22
Canton, Lock No. 20[2]	Mississippi	....	.01	....	....	....	....	T.	T.	....	....	....	....	.10	....	T.	.88	....	.01	.03	.04	T.	....	....	....	.20	....	....	....	.06	.45	....	1.78
Centralia[2]	...do	....	....	....	....	....	....	....	....	....	....	....	....	.57	....	.44	....	....	....	2.17	.18	....	....	....	....	.06	....	....	....	....	.20	....	3.62
Chillicothe[2] (A)	Grand	....	....	....	....	....	....	....	....	....	....	....	....	.02	....	2.42	....	....	.18	.57	.11	....	....	....	....	.60	....	....	....	.92	1.23	....	6.05
Chillicothe[2] (B)	...do	....	....	....	....	....	....	....	T.	....	....	....	....	.32	....	2.45	....	....	.08	.43	.22	....	T.	....	....	.67	....	....	....	.57	.91	....	5.65
Clifton Hill	Chariton	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Columbia[1, 5]	Missouri	1.08	.02	....	....	....	....	T.	T.	....	....	....	....	....	....	.46	....	....	T.	.30	T.	....	....	....	....	.08	....	....	....	.24	.05	....	2.23
Columbia[5] .. 9 mi. WNW	...do	.58	.03	....	....	....	....	....	....	....	....	....	....	....	....	1.56	....	....	.03	T.	.21	....	....	....	....	.05	....	....	....	.07	.23	....	2.76
Conception	...do	....	....	....	....	....	....	....	....	....	....	....	T.	....	....	T.	....	.47	1.53	1.53	....	....	....	....	T.	.67	....	....	....	.53	....	....	4.73
Edgerton	...do	....	....	....	....	....	....	....	....	....	....	....	*T.*	....	....	....	....	....	*	5.90	....	....	....	....	.40	.73	....	....	....	2.10	.06	....	9.19
Edina[2]	Mississippi	....	....	....	....	....	....	....	.05	....	....	....	.16	.20	....	.25	1.04	....	....	.16	.22	....	....	....	....	.30	....	....	....	....	.84	....	3.22
Elsberry S. C. S.[2]	...do	.12	.03	....	....	....	....	....	....	....	....	....	....	T.	....	T.	.28	....	....	....	1.45	....	....	....	....	.08	....	....	....	....	.38	....	2.34
Fayette	Missouri	.16	.01	....	....	....	....	....	T.	....	....	....	....	....	....	1.38	....	....	.66	.35	....	....	....	....	T.	.21	....	....	....	.40	.66	....	3.83
Fulton[2]	...do	....	.15	....	....	....	....	....	....	....	....	....	....	....	....	.25	....	....	....	....	.69	....	....	....	....	....	....	....	....	....	.63	....	1.72
Gallatin[2]	Grand	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.21	....	....	.45	1.16	.04	....	....	....	....	.95	....	....	....	....	1.18	....	3.99
Grant City	...do	....	....	....	....	....	....	....	....	....	....	....	T.	....	....	.08	....	.15	1.30	1.62	....	....	....	....	.68	....	....	....	....	.53	.47	....	4.83
Hannibal[1] (A)	Mississippi	.02	.01	....	....	....	....	....	.02	....	....	....	.07	....	....	.41	....	....	2.03	.33	....	....	....	....	....	....	....	....	....	.35	.10	....	3.34
Hannibal[2] (B)	...do	.09	.05	T.	....	....	....	....	....	.03	....	....	....	.22	....	....	.42	....	....	1.96	.28	....	....	....	....	....	....	....	....	....	.28	....	3.33
Hermann[2]	Missouri	.03	.18	....	....	....	....	....	....	....	....	....	....	....	....	.22	.05	....	....	....	1.64	....	....	....	....	.02	....	....	....	....	.17	....	2.31
Kahoka[2]	Mississippi	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	2.00	....	1.20	1.40	.30	....	....	....	....	.10	....	....	....	....	.20	....	5.20
Kansas City Airport[1, 5]	Missouri	....	T.	....	....	....	....	T.	....	....	....	....	T.	....	....	....	....	....	.79	1.15	....	....	....	....	.20	.91	....	....	1.02	.30	....	....	4.37
Kansas City University	...do	....	T.	....	....	....	....	....	....	....	....	....	....	T.	....	....	....	....	.31	1.45	....	....	....	....	.20	.91	....	....	....	1.32	....	....	4.19
Kidder[2]	Grand	....	....	....	....	....	....	....	....	T.	....	....	....	.01	....	.38	....	....	.41	1.07	.05	....	....	....	....	1.68	....	....	....	.15	.96	....	4.71
King City	Missouri	....	....	....	....	....	....	....	....	....	....	....	T.	....	....	.01	....	....	.88	1.75	....	T.	....	....	....	....	....	....	....	1.76	....	....	4.40
Kirksville	Mississippi	....	....	....	....	....	....	....	.05	....	....	T.	....	....	....	1.85	....	....	.47	.07	....	....	....	....	.01	.07	....	....	....	.02	.31	....	2.85
Knoxville[3]	Missouri	T.	T.	....	....	....	....	....	....	....	....	....	.01	....	....	3.05	....	....	*.62*	*.94*	....	.03	T.	....	.23	.65	....	....	.34	.92	.90	....	§7.69
LaBelle[2]	Mississippi	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.43	.90	....	T.	T.	.20	....	....	....	....	.27	....	....	....	.65	.40	....	2.85
Lawson	Missouri	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Linneus	Grand	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Louisiana (A)	Mississippi	.18	.05	....	....	....	....	....	....	....	....	....	....	.37	....	.40	....	....	1.35	.27	.36	....	....	....	....	.05	....	....	....	....	.10	....	3.13
Louisiana[2] (B)	...do	.20	.02	....	....	....	....	....	....	....	....	....	....	.26	....	....	.40	....	....	1.70	.43	....	....	....	....	.03	....	....	....	....	.07	....	3.11
Lucerne[2]	Grand	....	....	....	....	....	....	....	....	....	....	....	....	....	....	*	1.70	....	1.30	*	.60	....	....	....	....	.45	....	....	....	*	1.73	....	5.78
Macon[2]	Chariton	....	*T.*	....	....	....	....	....	.02	....	....	....	.06	.66	....	.02	.53	....	....	.70	.42	....	....	....	....	.10	....	....	....	....	.88	....	3.39
Madison[2]	Mississippi	....	....	....	....	....	....	....	....	....	....	....	....	.40	....	.10	.84	....	....	1.70	....	....	....	....	....	....	....	....	....	....	.76	....	3.80
Martinsburg[2]	Missouri	.01	.03	T.	....	....	....	....	....	T.	....	....	....	T.	....	.15	.05	....	....	.05	.38	....	....	....	....	T.	....	....	....	.04	.34	....	1.05
Maryville	...do	....	....	....	....	....	....	....	....	.02	....	....	.02	....	....	....	....	.10	1.35	1.67	T.	....	....	....	.15	.67	....	....	....	.29	T.	....	4.27
Memphis[2]	Mississippi	....	T.	....	....	....	....	....	....	....	....	....	....	....	....	*	1.23	....	1.16	.06	....	....	....	....	....	.20	....	....	....	....	.72	....	3.37
Mexico[2]	...do	.04	.12	....	....	....	....	....	....	....	....	....	....	.50	....	.09	.12	....	....	.79	.28	....	....	....	....	T.	....	....	....	....	.50	....	2.44
Milan[2]	Grand	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.16	1.00	....	.20	.10	....	....	....	....	....	.63	....	....	....	.41	1.40	....	3.90
Moberly[2] ....3½ mi. NE	Mississippi	....	T.	....	....	....	....	....	*	.28	....	....	....	.50	....	.05	.22	....	....	1.17	.19	....	....	....	....	.03	....	....	....	....	2.07	....	4.51
Monroe City	...do	....	T.	....	....	....	....	....	.04	....	....	....	....	.19	....	.54	....	....	1.38	2.32	.12	....	....	....	....	....	....	....	....	.09	.24	....	4.92
New Florence[3, 5] 1 mi SE	Missouri	.17	.01	....	....	....	....	....	....	....	....	....	T.	T.	....	.17	....	....	....	.62	T.	....	....	....	T.	T.	....	....	.04	.33	....	....	1.34
Oregon	...do	T.	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1.10	2.84	....	....	....	....	.05	.82	....	....	....	.88	....	....	5.69
Palmyra[2]	Mississippi	....	....	....	....	....	....	....	.17	....	....	....	....	....	....	*	.63	....	....	.49	1.80	....	....	....	....	.14	....	....	....	....	....	....	3.23
Paris[2]	...do	....	T.	....	....	....	....	....	....	T.	....	....	....	.59	....	.05	.23	....	....	2.23	.13	....	....	....	....	....	....	....	....	.01	.77	....	4.01
Perry ....1 mile E	...do	....	....	....	....	....	....	....	....	....	....	....	....	.60	....	.20	....	....	.75	1.40	.10	....	....	....	....	....	....	....	....	....	.55	....	3.60
Philadelphia	...do	....	*T.*	....	....	....	....	....	.20	....	....	....	....	T.	....	1.10	....	....	.20	.80	....	....	....	....	....	....	....	....	....	.10	.20	....	2.60
St. Charles[2] (A)	Missouri	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
St. Charles[2] (B)	... do	.09	.25	....	....	....	....	....	....	....	....	....	....	....	....	.27	.09	....	....	.08	1.05	....	....	....	....	.09	....	....	....	....	....	....	1.92
St. Joseph[1, 5]	...do	T.	....	....	....	....	....	....	....	....	....	....	T.	....	....	....	....	....	.86	1.13	....	....	....	....	.08	.67	....	....	1.09	.39	....	....	4.22
Saverton, Lock No. 22[2]	Mississippi	.31	.02	....	....	....	....	....	....	T.	....	....	....	.11	....	T.	.25	....	....	2.94	.28	....	....	....	....	.08	....	....	....	....	.65	....	4.64
Shelbina	...do	....	.02	....	....	....	....	....	T.	....	....	....	....	.73	....	1.22	....	....	1.01	.33	.02	....	....	....	....	....	....	....	....	T.	.73	....	4.06
Shelbyville[2]	...do	....	....	....	....	....	....	....	.06	....	....	....	....	....	....	....	.64	....	....	.32	.95	....	....	....	....	*	.06	....	....	....	.47	....	2.50
Steffenville	...do	....	.01	....	....	....	....	T.	.01	....	....	.01	....	1.00	....	.84	....	....	.01	.34	....	....	....	....	....	.28	....	....	....	.04	.49	....	3.03
Tarkio[3]	Missouri	....	T.	....	....	....	....	T.	....	T.	....	....	.03	....	T.	.01	....	.53	2.38	.89	....	....	....	....	.89	.03	....	....	.70	....	....	....	5.46
Trenton[2]	Grand	....	....	....	....	....	....	....	....	....	....	....	....	T.	....	.99	....	....	.10	.87	T.	....	.06	....	....	1.45	....	....	....	....	3.20	....	6.67
Troy[2]	Mississippi	.08	....	....	....	....	....	....	....	....	....	....	....	....	....	.10	....	....	....	....	1.90	....	....	....	....	.10	....	....	....	....	.25	....	2.43
Unionville[2]	Chariton	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.20	1.95	....	1.30	.08	.05	....	.03	....	....	.60	....	....	....	.23	.63	....	5.07
Vandalia	Mississippi	....	T.	....	....	....	....	....	....	....	....	....	....	.06	....	.30	....	....	.56	.72	.26	....	....	....	....	.09	....	*T.*	....	.31	.31	....	2.61
Warrenton	...do	1.01	.03	T.	....	....	....	....	....	....	....	....	....	....	....	.18	....	....	....	1.19	.27	....	....	....	....	.10	....	....	....	.24	.02	....	3.04
Keokuk, Iowa[1]	...do	T.	.01	....	....	....	....	T.	T.	....	....	T.	.48	....	....	.87	....	.01	1.48	.15	....	....	....	....	....	.05	....	....	.02	.18	.10	....	3.35
Southwestern Division																																	
Altona[2]	Osage	....	....	....	....	....	....	....	....	1.63	....	....	....	.23	....	....	....	....	....	.93	.15	....	....	....	....	.55	....	....	....	1.04	....	....	4.53
Anderson[2] ...1½ mi. SW	Neosho	T.	T.	T.	....	....	....	....	....	....	....	.28	....	....	....	....	....	....	....	....	.32	....	....	....	....	.11	1.02	....	....	.07	1.25	....	3.05
Appleton City	Osage	....	....	....	....	....	....	....	....	.05	....	....	....	.03	....	....	....	....	.20	1.00	....	....	....	....	....	.50	....	....	....	.20	.37	....	2.35
Ava Ranger Station[2]	White	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.08	....	....	....	....	.77	....	....	....	....	....	0.85
Bolivar	Osage	.05	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.60	.02	....	....	....	.03	.70	....	....	....	.07	....	....	1.47
Boonville[2] (A)	Missouri	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1.97	....	....	....	....	.15	....	....	....	....	.47	....	....	....	....	.25	....	2.84
Boonville[2] (B)	...do	....	....	....	....	....	....	....	....	....	....	....	....	....	....	2.34	....	....	....	....	.13	....	....	....	....	.41	....	....	....	....	.44	....	3.32
Bradleyville[2]	White	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.56	....	....	....	.66	....	1.22
Buffalo[2]	Osage	.04	.09	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1.78	....	....	....	....	.70	....	....	....	....	.18	....	2.79
Butler	...do	....	....	....	....	....	....	....	T.	....	....	....	....	....	....	....	....	....	*	.87	....	....	....	....	.10	.03	....	....	....	.50	.12	....	1.62
Camdenton	...do	.80	.02	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.84	....	....	....	....	....	.19	....	....	....	.30	.11	....	2.26
Caplinger Mills[2]	...do	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1.33	....	....	....	....	.34	T.	....	....	.13	....	....	1.80
Carthage	Neosho	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.30	....	....	....	....	.14	.05	....	....	....	....	.15	....	0.64
Cassville	White	....	*T.*	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	*	.82	....	....	....	.01	.05	1.34	....	.30	.35	4.10	....	6.97
Chadwick[2]	...do	....	.68	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.24	....	....	....	....	....	.60	....	....	....	1.95	....	3.47
Clinton[3]	Osage	....	....	....	....	....	....	....	1.65	....	....	....	.29	.01	....	....	....	....	.13	.96	....	....	....	....	.05	1.55	....	....	....	.17	.36	....	5.17
Concordia	Missouri	....	....	....	....	....	....	....	....	....	....	....	....	.08	....	.75	....	....	....	.70	....	....	....	....	.08	.46	....	....	....	.04	....	....	2.11
Crocker	Osage	....	.21	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.64	....	....	....	....	....	.33	....	....	....	.50	....	....	1.68
Eldon	Missouri	.01	.01	....	....	....	....	....	....	....	....	....	....	....	....	.07	....	....	....	1.57	....	....	....	....	T.	.08	....	....	....	.38	.43	....	2.55
Eldorado Springs	Osage	....	....	....	....	....	....	....	....	....	T.	....	....	....	....	....	....	....	....	.60	....	....	....	....	....	.14	....	....	.10	....	....	....	0.84
Elijah[2]	White	....	.15	....	....	....	....	....	....	....	....	....	....	....	.90	....	....	....	....	....	.30	....	....	....	....	....	1.30	....	....	....	.55	....	3.20
Forsyth[2]	...do	....	.24	....	....	....	....	....	....	....	....	....	....	....	.05	....	....	....	....	....	.07	....	....	....	....	....	.75	....	....	....	1.00	....	2.11
Galena[2]	White	.11	....	....	....	....	....	....	....	....	.02	....	....	....	.17	....	....	....	....	....	.29	....	....	....	....	....	.19	....	....	....	2.75	....	3.53
Granby[2]	...do	....	T.	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.54	....	....	....	....	.09	1.36	....	....	....	.10	....	2.09
Hailey	...do	T.	T.	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.56	....	....	....	....	....	....	1.59	T.	.26	.11	....	....	2.52
Harrisonville[2]	Osage	....	....	....	....	....	....	....	....	.03	....	....	....	.44	....	....	....	....	....	2.43	.01	....	....	....	....	1.84	.02	....	....	.77	.02	....	5.56
Jefferson City ...(A)	Missouri	.14	.01	....	....	....	....	....	....	....	....	....	....	....	....	.80	....	....	....	1.18	.03	....	....	....	.01	T.	....	....	....	.81	T.	....	2.98
Jefferson City[2]...(B)	...do	.03	.15	T.	....	....	....	....	....	....	....	....	....	....	....	.88	T.	....	....	....	1.13	T.	....	....	....	T.	....	....	....	.02	.93	....	3.14
Joplin[1]	Neosho	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.70	....	....	....	....	....	.51	.35	....	....	.06	.22	....	1.84
Lakeside[2, 5]	Osage	....	.66	T.	....	....	....	....	....	....	....	....	....	....	....	.02	....	....	....	T.	1.14	....	....	....	....	.19	T.	....	....	....	.56	....	2.57

Continued on next page

Daily Precipitation for June 1946—Continued from preceding page

Stations	Drainage-basins	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	..	Total
Southwestern Division—	*Concluded*																																
Lamar[2]	Neosho																				1.55					.10							1.65
Lebanon[2]	Osage	T.	.60																		.82					.05	.05				.68		2.20
Lexington[2]	Missouri															.70				.50						1.22					T.		2.42
Lockwood	Osage	T.	T.				T.													.60	.03				.03	.16			T.		.05		0.87
Mansfield[2]	White										.05										.60						.53				.46		1.64
Marshall	Missouri															.18			.49	.71					T.	.30				.32			2.00
Marshfield[2]	White		.06																		1.26					.35	.05				.84		2.56
Mountain Grove[2]	Gasconade		.25																		.26						.18				.72		1.41
Mount Vernon[2]	Neosho																				.12				T.	*	.12				.32		0.56
Neosho	do														.06					.41					.04	.06		.01		.01	1.44		2.03
Nevada	Osage																			.80					T.	T.	.07			.17			1.04
Osceola[2]	do										T.										.35					.79			T.				1.14
Ozark[2]	White	.05	.22																		.30						.79				1.80		3.16
Ozark Beach[2]	do		.11												T.						.08						.37				1.20		1.76
Pierce City[2]	Neosho																				.50						.35				.55		1.40
Pineview Lookout[2]	White																																....
Pleasant Hill[2]	Osage													.77						3.22	.23		T.			1.89				.28	.11		6.50
Roby	Gasconade	.41	.03											T.						.30	.04				T.	.04				.07			0.89
St. Thomas[2]. 2¼ mi SW	Osage		*.33*													.35					2.88					.60					.49		§4.65
Saunders Lookout[2]	White																																....
Sedalia	Missouri															.03				.60						.31				.29	.01		1.24
Seligman[2]	Neosho														.34						.60					T.	2.41				1.25		4.60
Seymour[2]....3½ mi. NE	White			.14								T.									.86					T.		.11			.15		1.26
Shell Knob[2]...3 mi. SE	do																																....
Siloam Sprgs Lookout[2]	do																				.19						1.43				.52		2.14
Springfield[1,5]. 4 mi. NW	do	.30	T.																	.72	T.				T.	.86				.27	.20		2.35
Stover[2]	Missouri															*.07*					.21					.14					*.35*		§0.77
Sugar Camp Lookout[2]	White																																....
Sweet Springs	Missouri		.01													3.19			.24	.37					.08	.37				.40	T.		4.66
Tecumseh[2]. ..¼ mi. W	White																																....
Topaz[2]	do																				.10						1.00				.63		1.73
Vanzant[2]....3¾ mi. SE	do																				.14						.40				.68		1.22
Warrensburg	Missouri												*T.*	.38					T.	.37					.20	.47			T.	T.	.36		1.78
Warsaw[2].........(A)	Osage													.25		T.				.11	.57					.85					.05		1.83
Warsaw[2].........(B)	do													*.22*						.15	.53					.75					.15		§1.80
Wasola[2]	White																										.95				.34		1.29
Waverly[2]	Missouri													T.		2.40				1.08	.02					.54				1.90	.03		5.97
Waynesville	Gasconade	.60	.12		T.															.40	.09					.16				.16	.10		1.63
Wilderness Lookout[2]	White														.36						.15						T.				2.45		2.96
Southeastern Division																																	
Advance[3].....½ mile W	St. Francis	.09	T.																		.22					.48					.04		0.83
Alton.......10 miles SE	Black									.66											.27					.14					.92		1.99
Annapolis[2].....7 mi. W	do	.16	1.06																		.18					.07	.67				.10		2.24
Arcadia[2]	St. Francis	.44	.80																		.39						.26				.15		2.04
Belleview[2]	Meramec	.12	1.19	T.													.31				.14					.05	.21				.03		2.05
Bernie[2]	St. Francis	.14	.13									.10									.26					.31			.10		.25		1.29
Birch Tree[2] ...½ mile E	Black	.02									T.										.25						*1.32*				.67		§2.26
Black...... 9 miles NW	do	.32														.07				.10	.04					.06					.67		1.26
Bloomfield[2]	St. Francis	.05	.08									.39									.11	.10				T.	.79	.04	1.73		.07		3.36
Bunker[2]... 4 miles NW	Black		.45																		.15												0.60
Campbell	St. Francis	.12								T.		.65									.25					.31				.29	.36		1.98
Cape Girardeau..(A)	Mississippi	.05										.26		.07							.23					.19				T.	.50		1.30
Cape Girardeau[2].(B)	do	.02										.12			.03						.27	T.				T.	.18				.39		1.01
Caruthersville[2]..(A)	do	.27	.06								.17																.18						0.68
Caruthersville[2]..(B)	do	.26	.10								.20																.18						0.74
Centerville(1)[2]	Black	.14	.37																		.23					.12	.60						1.46
Centerville(2)[2]	do	.11	.52																		.36					.03	.58				.19		1.79
Cook Station[2]	Meramec		.98													.75					.15									.23			2.11
Crane Mountain[2]	St. Francis	.10	1.85																		.40					.18	1.10						3.63
Crystal City	Mississippi	.65	.02													.03				T.	.15					.37	.06			.01	*		1.29
Cuba	Meramec	.50	.20													.36				.42	.10									T.			1.58
Deering[2]	St. Francis	.26								.05				.04							.05	T.					.61				.16		1.17
De Soto[2]	Mississippi	.12	.54													.01					.17					.33					.22		1.39
Dexter[2]	St. Francis	.66	.04																			.33				T.	.31	.13	2.13		.11		3.71
Doniphan(1)	Black	.03								T.																.48				.42	.28		1.21
Doniphan(2)[2]	do	.05																			T.	.19					.25				.54		1.03
East End[2]	Meramec		.20														.15										T.						0.35
Eastwood Lookout[2]	Black	.08								.65											.14					*	.17			.02	.02		1.08
Ellington	do	.17																		.25						.26				.10	1.35		2.13
Ellsinore Lookout[2]	do																				.32						.28			.16	.28		1.04
Farmington[2]	St. Francis	.27	.49	T.													.11				.14					.02	.10	.25			.02		1.40
Fisk[2]	do		.07																		.35	T.					2.20						2.62
Fredericktown[2]	do	.18	.74																		.27					.15	.30				.25		1.89
Gerald	Meramec	.29	.02											.06		.27				.58						*T.*			.02	.04			1.28
Greenville(1)	St. Francis																																....
Greenville[2](2)	do	.06	.08																		.46					.12	1.04				.57		2.33
High Lookout[2]	Black																																....
Jackson	Mississippi	.23								T.											.17					.23					.85		1.48
Jefferson Barracks[2]	Mississippi	.14	1.74													.45				.42	.31					.03		.55			.04		3.68
Jerome[2]	Gasconade		*.34*													*.28*					.78					.12					*.33*		§1.85
Koshkonong[2]	Black		.08							.56					.37						.20	*T.*					.81				.04		2.06
Leeper[2]	do	.03	.01											T.							.42	.03					.41	T.			.10		1.00
Licking[2]	Gasconade		.21																		.18						.20				.23		0.82
Macedonia Lookout[2]	Black																				.30	.05					.32				.42		1.09
Marble Hill	Mississippi	.40																			.24					.80				.12	1.98		3.54
Meramec Park[2]	Meramec	.02	.57	.01												.04	.01				.35					.01				.01			1.02
Morehouse	Mississippi	.17																			.16					.31					.15		0.79
Moselle[2]	Meramec	.15	.58																	.20	.42												1.35
New Madrid[2]	Mississippi	.55	.34																			.22					.65						1.76
Oates Tower[2]	Black		.45																		.12					.01	.22	T.	T.		T.		0.80
Owensville[2]	Gasconade	.02	.46													.30					.66					.05					.69		2.18
Pacific[2]	Meramec	*.02*	*.52*													*.03*					.60					*.01*					*.06*		§1.24
Parma[2]	St. Francis	.42	.68									.10								T.	T.	.12					.11						1.43
Perryville	Mississippi	.48	.15													T.					.40					1.10	T.			.10	1.50		3.73
Pilot Knob[2]... 2 mi. NE	St. Francis																																....
Poplar Bluff[2]	Black	.02	.02							T.											.40	T.				.03	.54		.10		.37		1.48
Puxico[2]	St. Francis		.33																	.35	T.					.20	.88						1.76
Qulin[2]	do	.02	T.							.38											.24	T.				.02	1.61				.25		2.52
Reynolds[2]	Black	.08	1.28																		.10					.16	.10						1.72
Richwoods[2]	Meramec	*.06*	.05														.03				.34												§0.48
Rolla[2]	do		.92													1.10					.65					.08					.10		2.85
Round Spring[2]	Black																				.11						.46						0.57

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Daily Precipitation for June 1946—Continued from preceding page

Stations	Drainage-basins	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	..	Total
Southeastern Division —	*Concluded*																																
St. Louis:																																	
City Office[1], [5]	Mississippi	2.05	T.													.21			.28	.80						.03	T.			.09			3.46
Airport[3], [5]	Missouri	.51	.01													.54			.04	1.11	T.					.01				.09	T.		2.31
St. Louis Univ.[1], [5]	Mississippi	.67	.02													.38			1.22	1.09						T.				.08			3.46
Washington Univ.[2]	....do	.06	.38													.35				.17	.58					.01					.02		1.57
Salem[2]	Meramec		.37																		.30						T.				.56		1.23
Sikeston[2]	Mississippi	.05	.47																		.14	T.					.20				.05		0.91
Steelville[2] ...2½ mi. NE	Meramec		.27									*T.*				.40					.51					.10					.01		1.29
Summersville[2]	Black		.03								.32										.16						1.32				.98		2.81
Union[2] ....1½ mi. SE	Meramec		1.26	.02												.06					.51					.02							1.87
Valley Park[2]	....do	.14	.48													T.	.19			.03	.34					T.	.03				.18		1.39
Van Buren[2]	Black																				.50					.07	.60				.40		1.57
Vichy[3] .....2 miles NW	Meramec	1.77	.01											T.	T.	.27				.70	.01				T.	T.				T.			2.76
Wappapello Dam[2]	St. Francis	T.	T.																		.15					.13	1.20				.20		1.68
Webster Groves	Mississippi	.73	.02													.32				.25	.64					.01				.12			2.09
Weingarten	....do	.50		.10																											.25		0.85
West Plains[3]	Black	.08								.01				T.					T.		.60					.68				T.	.11		1.48
Williamsville[2]	....do																																....
Willow Springs[2] 500 ft E	White										.40										.33						2.10				.36		3.19
Winona Ranger Sta.[2]	Black	.24									.12																.55						0.91
Zalma[2]	Mississippi	.06	.20																		.44	.03				.03	.98				.71		2.45
Cairo, Ill.[1], [5]	....do	.18	T.																		.04					.08					2.71		3.01

Except as otherwise indicated, amounts are for 24 hours ending late in afternoon. [1] Midnight to midnight. [2] Measured in the morning; for the preceding 24 hours. [3] Data for 24 hours ending 12:30 A. M. (C. S. T.) of following day. [5] Recording gage. T. Trace or 0.005 inch or less. * Included in next measurement. // Wind-shield on gage. Italics data interpolated. § Partly interpolated. (A) Record from cooperative station gage. (B) Record from river station gage. ‡ Received too late to be included in means and extremes.

Daily Evaporation (inches), Mean Temperature (F°), and Wind Movement (miles) for June 1946

(See precipitation data in daily precipitation table)

Station	Data	Day of month																															Monthly
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	..	
Columbia (Univ. of Mo. Hort. Exp. Sta. 9 mi. WNW.)	Evaporation	.211	.040	.148	.191	.272	.319	.399	.161	.230	.308	.248	.270	.280	.238	.492	.318	.312	.176	.234	.268	.252	.249	.300	.301	.253	.186	.238	.314	.176	.080	....	7.464
	Mean temperature	64	51	56	57	62	72	77	72	72	75	78	78	76	75	75	82	82	82	72	64	70	73	73	74	76	73	78	78	78	75	..	72.4
	Wind movement	23	49	28	7	61	123	162	32	17	59	104	85	56	12	79	95	96	81	34	97	53	52	64	73	86	14	17	58	39	41	..	1,797
Lakeside (Osage Dam)	Evaporation	.107	.123	.064	.211	.233	.296	.379	.365	.233	.285	.267	.338	.381	.287	.301	.332	.378	.343	.386	.289	.282	.280	.310	.338	.361	.068	.208	.275	.316	.144	....	8.180
	Mean temperature	68	56	60	58	62	70	78	74	78	76	80	80	78	80	82	84	86	84	78	68	72	72	73	74	76	78	78	78	76	78	..	74.6
	Wind movement	7	60	35	23	30	53	101	70	23	26	41	9	127	21	45	54	67	56	57	85	46	26	30	33	48	21	8	30	45	53	..	1,333
St. Louis (Washington University)	Evaporation	.051	.051	.047	.198	.170	.226	.260	.290	.216	.244	.239	.266	.291	.265	.264	.041	.256	.271	.275	.256	.221	.234	.257	.289	.271	.206	.154	.191	.242	.199	....	6.441
	Mean temperature	68	55	60	60	63	70	76	76	76	78	80	80	82	76	76	84	84	86	82	68	70	74	76	76	81	80	82	80	80	82	..	75.4
	Wind movement	12	51	14	26	17	28	48	50	19	9	26	28	40	42	26	23	31	38	31	34	31	22	14	23	30	29	18	21	23	41	..	845

Observations taken at 8:00 a. m. except at 5:00 p. m. at Columbia. For Lakeside and St. Louis (Washington University) descriptions see April 1932 and August 1938 reports, respectively. * Included in next measurement.

Missouri Storms, June 1946

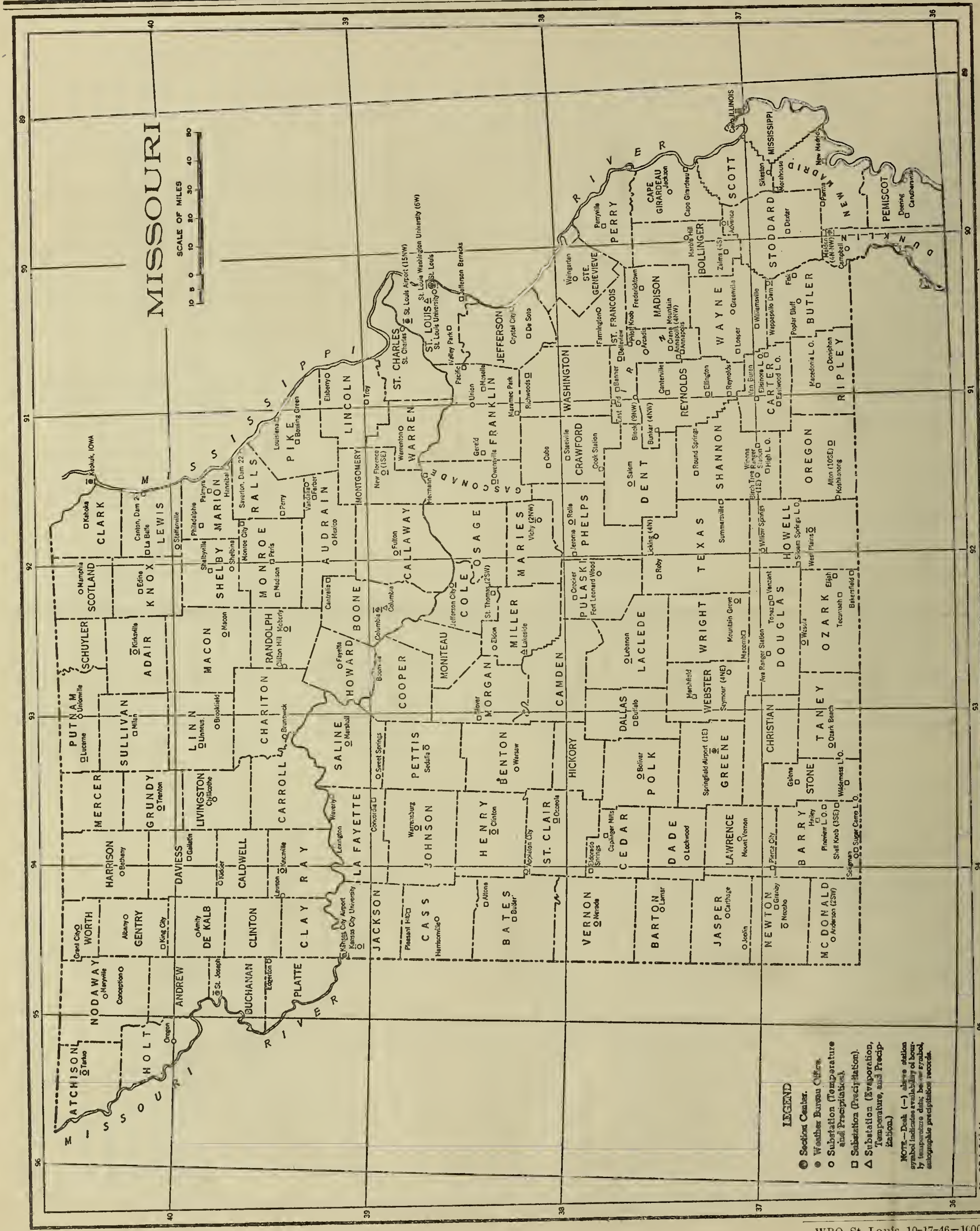
County	Date	Time	Nature of storm	Storm moved from	Width of path (miles)	Length of path (miles)	Loss of life	Property damage (estimated)	Remarks
St. Louis City	1	Between noon and 2:00 p.m.	Thunderstorm and wind	nw.	No definite storm path	No definite path	0	Small	Some streets flooded and sewer lids lifted from openings. Only minor damage to trees, wires and poles locally in southwest section of the city. Light hail fell for a few minutes.
Dunklin	10	6:00 p.m. to 6:30 p.m.	Heavy hail and wind	se.	5	4	0	Not estimated	Storm occurred 4 miles from Campbell. 30% damage by wind and hail to orchard crops. Fruit trees blown down or limbs broken. Hail damage to fruit. Hailstones one inch in diameter.
Livingston, Carrol, Charitan, Saline, and Cooper	15	Between midnight and 5:00 a.m.	Straight-line wind	w. or nw.	8 to 10	Approximately 60	0	$31,000 in Livingston and Cooper Counties. Unknown in other counties	Storm extended from Chillicothe to Boonville and vicinity. Growing crop damage estimated at $6,500 to wheat, rye and oats; $500 to hay and grain in storage. Storm accompanied by severe lightning which did 5% of the estimated damage Trees, old buildings, barns and power lines damaged by wind and lightning. In Cooper County storm was accompanied by light hail.
Sullivan	15	Between 7 and 9 a.m.	Straight-line wind and moderate hail	sw.	5	15	0	$2,500	Storm extended from southwest of Milan to Pollock. A few small buildings destroyed. Corn and small grain blown down. No material damage to crops.
St. Louis and St. Louis City	18	Between 6:15 p.m. and 8:00 p m.	Thunderstorm and wind	nw.	....	....	0	Minor	Trees uprooted, power lines disrupted and shingles blown from roofs and a plate glass broken by wind in parts of St. Louis and suburbs.
Jefferson and St. Louis, and City of St. Louis	19	Between 6:15 p.m. and 8:30 p.m.	Thunderstorm and wind	nw.	10	30	0	Not available	Trees and transmission lines blown down or broken down. Chimney of one residence in St. Louis City struck by lightning, damaging the building. Storm extended into Illinois striking Dupo, Ill.
Livingston	30	Between 6:30 p.m. and 7:40 p.m.	Local tornado	sw.	1	Not reported	0	Not reported	Storm struck Chillicothe and vicinity severely damaging two buildings at the Industrial Home for Girls. Trees and wires were blown down or broken. Heavy rain accompanied the storm; nearly one inch fell in about 15 minutes. Rotary winds reported but no one injured. Crop not severely damaged.

Time used on this tabulation is Central Standard Time, unless otherwise indicated.

Daily Temperatures for June 1946

Stations		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Northern Division																																	
Brunswick /	Maximum	74	59	71	76	81	89	91	85	87	91	94	91	85	88	87	95	95	90	82	72	85	90	91	88	85	89	95	93	89	81	..	85.6
	Minimum	59	48	44	44	44	50	63	68	61	65	70	73	65	65	65	70	75	75	61	55	55	56	62	64	65	64	64	67	71	71	..	62.0
Chillicothe /	Maximum	68	63	71	76	83	91	93	87	89	90	95	89	87	89	88	97	95	82	77	75	84	89	90	82	84	87	93	94	84	84	..	85.2
	Minimum	57	46	45	43	44	52	63	67	54	71	71	71	63	63	64	73	74	72	59	50	55	60	63	66	64	63	67	69	69	67	..	61.5
Columbia	Maximum	75	55	70	73	79	87	88	85	87	89	92	92	86	88	87	95	94	93	85	73	84	89	89	87	89	89	93	90	87	84	..	85.1
	Minimum	50	48	46	44	51	62	70	65	66	68	71	70	67	67	68	76	74	72	62	58	58	64	64	70	66	65	70	72	72	70	..	64.2
Fayette	Maximum	76	57	70	75	79	87	89	85	86	88	90	91	85	88	87	94	93	92	80	72	83	88	88	86	86	86	91	90	86	84	..	84.4
	Minimum	53	46	44	43	45	58	68	62	62	64	69	68	65	62	64	72	73	70	62	55	55	60	59	64	64	61	65	69	68	66	..	61.2
Grant City	Maximum	67	63	68	73	78	87	91	86	83	87	92	89	86	86	92	99	97	80	65	72	*82*	87	87	*84*	85	84	88	88	87	85	..	83.3
	Minimum	49	44	44	43	51	60	69	65	60	69	70	70	61	58	65	75	73	65	55	48	*50*	*57*	*65*	*66*	*62*	*61*	68	68	65	68	..	60.8
Hannibal	Maximum	68	57	69	74	79	85	89	88	86	89	90	90	82	86	81	92	92	88	76	68	80	88	88	88	90	87	90	92	88	82	..	83.4
	Minimum	48	45	44	47	53	60	65	65	61	65	70	69	67	65	67	73	73	66	57	56	55	64	62	64	68	65	68	71	70	70	..	62.4
Kansas City Airport	Maximum	67	60	71	78	83	92	92	88	92	88	94	93	88	92	101	102	99	85	77	75	86	91	92	85	85	88	92	94	79	90	..	86.6
	Minimum	50	48	48	46	60	65	70	70	68	72	74	75	67	67	76	80	78	68	60	54	60	64	72	71	65	66	71	65	68	72	..	65.7
Kirksville	Maximum	74	59	68	74	79	85	90	86	84	89	91	87	85	86	83	92	92	87	70	67	80	87	87	86	84	88	91	90	85	81	..	82.9
	Minimum	50	45	45	47	52	63	69	68	62	67	72	74	66	61	65	75	70	64	56	52	56	62	67	64	65	61	65	70	68	68	..	62.3
Lawson	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
Louisiana	Maximum	73	58	73	77	79	86	90	89	87	90	91	91	85	87	82	93	92	93	85	75	82	88	88	87	91	87	91	91	87	84	..	85.1
	Minimum	56	48	43	39	43	56	69	66	53	61	68	73	69	58	57	71	74	71	60	58	56	56	57	58	71	61	63	68	69	69	..	60.7
Macon /	Maximum	67	58	70	76	80	87	88	89	87	88	90	90	86	86	84	94	93	85	78	69	81	87	88	86	85	88	95	92	86	80	..	83.8
	Minimum	57	46	44	47	55	60	65	67	59	66	71	72	65	60	65	66	76	70	56	52	53	60	62	65	64	65	65	70	68	69	..	62.0
Maryville	Maximum	72	62	68	73	79	90	93	88	85	90	94	90	85	87	99	102	99	79	68	71	83	86	88	84	80	85	88	88	82	88	..	84.2
	Minimum	50	44	44	47	50	60	69	67	63	67	70	71	60	61	68	75	72	66	57	47	53	58	65	68	62	62	67	67	65	66	..	61.4
Mexico /	Maximum	72	55	68	73	79	85	89	84	87	90	90	92	81	86	81	93	93	92	84	69	80	88	89	87	88	86	93	92	88	82	..	83.9
	Minimum	54	46	43	42	48	57	62	65	57	66	69	70	65	62	67	69	73	75	61	56	56	61	61	63	68	62	64	70	71	69	..	61.7
Moberly /	Maximum	70	62	68	73	79	88	89	86	85	89	91	91	83	85	83	94	93	91	80	70	82	81	88	86	86	87	93	91	88	84	..	83.9
	Minimum	56	42	43	45	52	62	63	65	58	62	69	71	64	61	63	61	75	74	58	53	53	62	69	60	65	62	68	71	70	62	..	61.3
Oregon	Maximum	74	62	71	76	82	93	94	86	89	87	94	91	88	90	101	101	99	85	78	75	81	87	88	84	83	87	90	89	79	89	..	85.8
	Minimum	50	45	45	47	57	63	70	67	67	70	71	..	..	..	..	..	..	..	60	49	57	62	70	71	62	64	69	71	65	69	..	^{g}61.8
St. Charles /	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
St. Joseph	Maximum	63	62	72	76	83	94	95	88	89	87	94	91	86	89	100	101	100	85	69	76	84	89	91	84	84	89	92	91	78	90	..	85.7
	Minimum	49	47	46	46	59	64	71	71	70	70	73	70	64	64	72	79	78	66	57	52	59	65	70	72	64	64	71	66	66	69	..	64.5
Trenton	Maximum	71	66	70	75	81	85	92	85	87	89	93	90	87	88	92	95	95	87	74	72	84	89	90	85	84	87	92	91	87	84	..	84.9
	Minimum	51	47	45	55	50	59	70	70	63	68	70	70	64	63	66	69	75	69	58	50	55	61	63	66	64	63	67	71	69	66	..	62.6
Unionville /	Maximum	59	63	68	73	79	86	90	85	84	88	92	88	85	86	85	92	93	75	66	69	82	85	87	85	83	87	91	90	87	84	..	82.2
	Minimum	54	43	42	42	47	60	64	64	56	64	70	69	62	59	66	63	73	66	53	46	50	57	62	65	63	60	63	68	65	67	..	59.4
Warrenton	Maximum	72	58	70	73	77	85	87	89	88	89	90	90	85	85	83	92	93	92	92	73	81	86	88	87	88	88	90	90	87	89	..	84.6
	Minimum	58	47	44	39	45	56	65	63	58	62	65	66	69	61	67	72	73	73	65	57	57	54	59	60	72	62	66	68	68	67	..	61.3
Keokuk, Iowa	Maximum	67	63	69	76	79	85	91	86	84	91	93	90	83	84	81	93	94	78	73	67	79	88	88	86	87	88	93	92	89	80	..	83.2
	Minimum	48	45	47	48	54	65	71	66	63	67	73	69	65	58	66	75	70	58	55	55	57	61	68	67	68	67	68	74	73	72	..	63.1
Southwestern Division																																	
Clinton	Maximum	74	58	72	76	81	89	90	92	90	89	90	93	87	90	97	97	97	97	79	76	86	90	91	85	87	85	93	92	84	86	..	86.4
	Minimum	52	49	46	45	49	60	68	62	67	67	70	69	64	67	75	76	74	70	63	55	54	58	61	66	64	64	67	70	68	66	..	62.9
Eldon	Maximum	77	62	70	73	77	84	86	90	88	87	88	89	87	89	91	94	93	92	87	74	82	85	87	85	87	87	89	89	84	87	..	84.7
	Minimum	62	49	46	46	48	58	68	60	63	65	67	70	66	67	66	72	75	73	68	57	57	59	60	62	65	66	67	68	69	68	..	62.9
Harrisonville /	Maximum	70	58	71	74	80	88	89	91	88	88	90	93	87	88	97	97	96	95	79	74	83	88	89	82	82	85	90	89	79	90	..	85.0
	Minimum	54	46	43	46	51	52	64	61	63	64	68	69	60	65	73	75	72	73	66	50	52	59	63	65	61	62	68	69	65	66	..	61.5
Jefferson City	Maximum	75	57	70	74	78	86	87	89	87	89	90	91	88	89	87	94	95	93	88	73	84	87	88	88	88	90	92	92	87	84	..	85.3
	Minimum	55	47	45	40	42	54	66	59	60	60	66	68	66	64	64	70	70	73	67	56	54	55	54	58	65	61	63	64	67	66	..	60.0
Joplin	Maximum	71	58	67	72	77	83	83	88	89	84	86	88	86	89	91	92	90	89	83	74	83	85	87	81	85	83	88	87	83	84	..	82.9
	Minimum	58	50	50	51	54	65	69	70	71	69	72	74	74	69	78	78	76	77	63	58	57	63	70	71	70	68	71	72	71	68	..	66.9
Lamar /	Maximum	72	56	69	72	77	84	85	88	89	85	87	88	85	91	93	93	93	91	83	74	84	86	89	83	85	85	91	90	85	87	..	84.0
	Minimum	58	49	47	46	48	53	62	62	65	66	66	70	72	68	70	74	71	72	73	54	53	53	62	66	69	66	68	69	71	68	..	63.0
Lebanon /	Maximum	76	53	67	73	76	83	84	89	90	86	86	88	86	91	91	93	93	92	91	72	84	83	87	85	84	89	90	90	86	85	..	84.1
	Minimum	58	48	46	41	47	54	60	60	63	65	67	68	70	66	71	73	70	73	70	55	52	55	59	60	64	64	64	67	67	65	..	61.4
Lexington /	Maximum	75	54	74	78	83	88	92	92	92	91	94	95	89	93	99	100	98	91	82	75	86	93	85	88	88	90	95	94	88	89	..	87.7
	Minimum	58	47	44	46	53	52	67	72	64	67	71	71	64	64	67	69	75	76	62	53	56	60	66	66	65	65	68	68	68	69	..	63.1
Marshall	Maximum	77	69	68	72	80	88	89	88	88	89	92	93	91	88	89	95	94	95	80	85	83	89	90	85	97	92	92	92	90	84	..	86.8
	Minimum	54	47	45	45	52	63	69	65	60	64	71	72	64	65	66	76	76	74	63	55	56	65	65	69	64	65	71	68	70	71	..	63.7
Mountain Grove	Maximum	73	71	68	72	73	80	83	87	87	85	86	88	86	86	89	91	91	90	90	84	85	84	85	85	86	88	86	86	84	80	..	83.6
	Minimum	55	49	48	42	51	56	60	61	63	57	64	65	70	64	71	71	69	70	69	57	50	58	62	61	69	65	67	66	66	66	..	61.4
Neosho	Maximum	74	67	69	74	78	84	85	90	90	88	88	88	87	90	91	93	93	90	88	75	90	86	89	87	90	87	92	90	86	86	..	85.5
	Minimum	57	50	50	42	49	56	63	60	62	62	68	70	71	62	70	71	69	74	72	57	48	54	65	64	60	66	64	66	70	67	..	62.0
Nevada	Maximum	73	60	72	77	80	86	88	92	95	88	91	92	91	97	97	97	97	96	80	78	88	91	92	88	85	87	97	96	85	93	..	87.6
	Minimum	57	48	44	44	50	50	67	57	65	65	60	71	71	66	74	75	72	74	67	53	53	58	65	67	65	69	67	69	69	66	..	62.6
Sedalia	Maximum	76	59	69	74	79	87	88	89	90	89	90	93	88	90	95	97	96	95	80	73	85	90	90	87	86	87	94	93	89	90	..	86.3
	Minimum	59	46	42	43	51	62	67	63	67	68	69	70	63	67	65	72	72	73	68	54	55	61	65	68	64	63	68	70	70	69	..	63.1
Springfield . 4 mi. NW	Maximum	74	55	66	71	76	84	85	90	89	86	87	89	84	90	92	93	93	92	89	71	82	85	87	84	84	85	88	88	82	87	..	83.6
	Minimum	55	48	49	45	51	56	60	61	61	64	66	67	68	65	72	71	70	72	64	57	51	59	63	63	64	66	68	68	69	64	..	61.9
Warrensburg	Maximum	75	59	71	75	80	88	89	..	91	89	90	94	89	90	97	97	97	95	78	74	85	91	91	87	87	87	93	92	89	89	..	^{a}86.5
	Minimum	59	48	46	47	53	61	68	63	..	68	70	71	64	66	69	76	74	72	67	53	55	65	64	69	63	65	67	72	68	67	..	^{a}63.8
Southeastern Division																																	
Arcadia /	Maximum	75	60	70	75	78	82	87	90	87	89	90	90	87	89	88	94	93	92	92	77	86	88	89	90	88	88	88	88	86	88	..	85.5
	Minimum	56	53	52	42	42	43	59	63	64	59	59	61	68	65	65	66	69	69	70	64	49	49	53	53	53	69	70	65	66	68	..	59.5
Birch Tree .. ½ mile E	Maximum	..	..	76	75	76	82	85	90	88	88	88	88	89	91	93	93	92	92	85	..	..	..	..	..	..	..	..	..	..	..	..	....
	Minimum	..	..	47	42	43	54	53	62	62	60	61	61	63	63	64	66	68	70	49	..	..	..	..	..	..	..	..	..	..	..	..	....
Caruthersville	Maximum	72	66	70	73	77	83	88	90	89	92	92	92	89	92	91	94	94	93	92	88	85	88	89	90	87	85	88	90	87	89	..	86.5
	Minimum	60	56	51	51	52	56	67	70	67	66	69	72	72	73	69	73	72	75	75	62	63	62	65	65	71	71	69	70	71	70	..	66.2
Crystal City	Maximum	78	67	72	76	80	87	90	93	90	92	92	93	90	90	87	98	97	96	101	93	87	90	91	91	90	91	91	92	88	95	..	88.9
	Minimum	60	52	51	42	45	52	63	60	65	60	65	67	75	66	70	69	72	70	69	62	52	54	56	56	70	70	71	68	69	70	..	62.4
Doniphan	Maximum	80	64	73	76	80	84	89	94	93	93	93	93	93	95	94	96	96	95	95	90	88	90	93	94	90	90	93	94	91	93	..	89.4
	Minimum	62	56	59	43	42	47	56	63	63	68	62	65	67	65	67	68	67	70	71	65	53	51	54	53	71	69	73	67	69	68	..	61.8
Farmington	Maximum	77	61	68	72	75	82	86	90	86	90	89	89	85	88	85	93	92	93	92	70	84	88	88	88	88	89	88	88	86	89	..	84.6
	Minimum	57	50	50	44	44	55	65	63	65	61	64	67	73	65	67	70	68	72	68	59	50	54	54	54	68	68	70	66	68	67	..	61.5
Jackson	Maximum	79	67	72	77	78	83	88	93	92	94	92	92	93	92	92	96	95	95	94	88	88	92	92	94	88	87	92	94	90	89	..	88.6
	Minimum	61	54	54	45	45	51	61	65	68	62	67	70	73	67	68	74	71	72	75	63	51	55	56	56	70	72	70	69	71	69	..	63.5
Poplar Bluff	Maximum	78	69	73	77	78	83	88	93	94	93	92	91	91	92	91	93	93	93	92	86	86	92	91	91	85	87	90	89	87	88	..	87.5
	Minimum	65	58	54	48	47	51	61	65	66	65	65	68	70	69	69	70	69	71	73	69	55	56	58	56	70	70	69	67	71	70	..	63.8
Rolla /	Maximum	71	63	69	72	77	84	86	89	87	88	89	90	85	88	88	93	93	92	91	74	83	88	87	88	87	88	89	89	87	87	..	84.7
	Minimum	59	48	47	47	47	57	62	63	66	62	67	68	70	66	64	72	71	73	72	55	54	58	58	60	67	66	67	66	69	66	..	62.2
St. Louis	Maximum	75	56	68	74	78	86	90	88	89	91	91	90	85	89	83	96	94	95	92	72	82	89	90	90	89	88	89	90	87	90	..	85.5
	Minimum	55	49	53	54	57	59	67	69	69	70	72	74	72	63	70	74	76	72	67	62	61	67	69	70	73	74	74	73	74	73	..	67.1
Salem /	Maximum	73	54	69	75	78	84	86	91	90	90	90	90	85	91	93	96	95	95	94	75	85	90	90	91	91	95	91	92	90	88	..	86.6
	Minimum	57	49	50	40	44	55	61	61	61	63	64	66	70	65	69	68	69	72	71	58	50	54	55	56	65	67	70	66	67	65	..	60.9
Sikeston /	Maximum	77	66	71	75	78	85	88	93	92	93	92	93	91	93	92	98	97	95	95	81	88	91	91	93	88	87	90	92	89	87	..	88.0
	Minimum	66	57	54	49	49	56	63	68	67	65	68	71	71	70	70	73	73	73	75	69	55	58	61	60	72	70	70	69	72	72	..	65.5
Union ...... 1½ mi. SE	Maximum	77	62	71	74	78	86	88	89	87	91	91	91	88	89	85	96	96	95	94	74	84	88	90	90	92	93	93	91	89	93	..	86.8
	Minimum	59	49	40	41	43	51	65	59	61	59	65	65	73	65	67	70	71	75	68	60	53	54	55	54	72	69	68	65	68	68	..	61.1
West Plains	Maximum	75	61	70	73	77	83	86	91	89	88	89	89	90	92	91	93	93	92	92	77	85	86	88	89	91	86	86	88	85	83	..	85.3
	Minimum	56	53	48	44	43	51	56	59	61	59	62	64	66	62	68	68	70	72	69	55	49	53	53	54	68	63	71	66	66	66	..	59.8
Cairo, Ill.	Maximum	76	66	72	75	79	85	90	95	90	92	95	93	91	91	91	98	97	96	95	82	89	90	89	92	86	88	90	91	90	87	..	88.0
	Minimum	61	57	56	53	54	58	67	71	71	68	72	74	74	71	70	75	76	77	77	68	61	64	65	66	72	72	72	71	75	69	..	67.9

/ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs. ^{a}, ^{b}, ^{c}, etc., number of days missing, for example, ^{b} indicates two days missing. Italics data interpolated. § Partly interpolated.


MISSOURI
SCALE OF MILES
10 5 0 10 20 30 40 50
LEGEND
● Section Center.
● Weather Bureau Office.
○ Substation (Temperature and Precipitation).
□ Substation (Precipitation).
△ Substation (Evaporation, Temperature, and Precipitation.)
NOTE.—Dash (—) above station symbol indicates availability of hourly temperature data; below symbol, autographic precipitation records.
MISSISSIPPI RIVER
MISSOURI RIVER
ILLINOIS
Keokuk, IOWA
ATCHISON
NODAWAY
WORTH
HARRISON
MERCER
PUTNAM
SCHUYLER
SCOTLAND
CLARK
HOLT
ANDREW
GENTRY
DAVIESS
GRUNDY
SULLIVAN
ADAIR
KNOX
LEWIS
BUCHANAN
DE KALB
CALDWELL
LIVINGSTON
LINN
MACON
SHELBY
MARION
PLATTE
CLINTON
CLAY
RAY
CARROLL
CHARITON
RANDOLPH
MONROE
RALLS
PIKE
JACKSON
LA FAYETTE
SALINE
HOWARD
BOONE
AUDRAIN
MONTGOMERY
LINCOLN
ST. CHARLES
WARREN
CALLAWAY
CASS
JOHNSON
PETTIS
COOPER
MONITEAU
COLE
OSAGE
GASCONADE
FRANKLIN
ST. LOUIS
JEFFERSON
BATES
HENRY
BENTON
MORGAN
MILLER
MARIES
PHELPS
CRAWFORD
WASHINGTON
STE. GENEVIEVE
PERRY
ST. CLAIR
HICKORY
CAMDEN
PULASKI
DENT
IRON
ST. FRANCOIS
MADISON
BOLLINGER
CAPE GIRARDEAU
VERNON
CEDAR
POLK
DALLAS
LACLEDE
TEXAS
SHANNON
REYNOLDS
WAYNE
STODDARD
SCOTT
MISSISSIPPI
BARTON
DADE
GREENE
WEBSTER
WRIGHT
HOWELL
OREGON
CARTER
RIPLEY
BUTLER
NEW MADRID
PEMISCOT
DUNKLIN
JASPER
LAWRENCE
CHRISTIAN
DOUGLAS
OZARK
NEWTON
MC DONALD
BARRY
STONE
TANEY
C.E.J. 5-11-44

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NOV 22 1946
UNIVERSITY OF ILLINOIS

U. S. DEPARTMENT OF COMMERCE, WEATHER BUREAU

CLIMATOLOGICAL DATA

MISSOURI SECTION

H. F. WAHLGREN
ST. LOUIS, MO.

Vol. L — July 1946 — No. 7

Price: 5 Cents a Copy; 25 Cents a Year

GENERAL SUMMARY

July was both warmer and drier than normal but it was generally a favorable month for growing crops, except in some scattered local areas where droughty conditions prevailed throughout the month and where crops suffered severely.

The Southwestern Division had the highest average temperature with 80.1°, which is 2.4° above normal. The average for the Southeastern Division was 78.8°, or only 0.5° warmer than normal; for the Northern Division the average was 77.7°, or 0.7° above normal. Afternoon temperatures of 100°, or higher, occurred on an average of three days, for the State as a whole, and on an average of six days over the Southwestern Division. The 18th, 19th, 23d and 24th were the warmest days of the month, as a rule, while the 2d, 3d, and 4th were generally the coolest days, when minimum temperatures were in the 50's or high 40's. The extremes of temperature this month were well within the all-time extremes for July.

Precipitation was mostly of the summer-thundershower type and the distribution was quite irregular, ranging from a total of 8.15 inches at the station receiving the greatest monthly total to only a trace at the station with the least monthly amount. A number of stations in scattered areas of the State received less than an inch of rainfall during the month. The driest areas were in the extreme southwestern corner of the State, several east-central counties bordering on the Missouri and Mississippi rivers, and locally in Knox, Lewis, Ralls, and Shelby counties, in the northeastern quarter of the State; also, in Platte, DeKalb, Gentry, Harrison, and northern La Fayette counties. Heavy local rainfall occurred in the extreme northeastern counties on the 16-17th, when 7.55 inches fell within a 24-hour period at Memphis, Scotland County, resulting in severe flooding of small streams in that area. Heavy local downpours of more than four inches occurred at Wappapello Dam on the 20th-21st and at Mt. Vernon on the 28th.

Only a very few damaging storms occurred during the month, all of which were strictly local and are tabulated elsewhere in this issue.

Minor flooding occurred in the Grand River, at Chillicothe, the first two days of the month and in the Mississippi River at Louisiana the first half of July; also, in the reach from Hannibal to Louisiana from the 19th to 20th. Rather severe flooding of small streams in the extreme northeastern counties, particularly the Fox River, occurred following heavy rainfall in that area on the 16-17th.

Harvesting and threshing of small grains was completed during the month, except in the northern portion of the State where threshing was still in progress at the close. Yields were very good, especially oats, which were the best in several years. Corn, as a rule, made good progress, except locally in the drier areas of the State, and the crop was expected to be the best in many years. By the close of the month the bulk of the crop was in the critical silk and tassel stage of its development and rather general showers during the last week of July were especially beneficial and timely. Hay making continued throughout the month under favorable weather conditions and

(Continued on page 51)

PRESSURE, WIND, HUMIDITY, AND SUNSHINE

Stations	Sea-level pressure, extremes-inches				Wind				Relative humidity				Percentage of sunshine	Degree days
	Highest	Date	Lowest	Date	Average hourly velocity	Maximum velocity ¶	Direction of maximum	Date	12:30 a. m.	6:30 a. m.	12:30 p. m.	6:30 p. m.		
Columbia	30.19*	26	29.80*	9	6.0	23	sw.	27	73*	81*	47*	44*	84	0
K. C. Airport	30.18	2	29.72	9	8.5	32	sw.	6	72	76	46	43	85	0
St. Joseph	30.19*	25	29.70*	9	7.0	19	se.	27	75*	83*	51*	51*	76	0
St. Louis	30.22*	26	29.84*	9	9.1	27	sw.	19	74*	74	48	60*	81	0
Springfield	30.13	2	29.82	22	9.3	29	nw.	11	79	85	52	51	86	0
Cairo, Ill.	30.17	26	29.87	9	6.3	33	ne.	9	..	84	60	..	80	0
....	.....	..	.....	..	....	..	......	..	..	..	..	..	..	....

* Data for Airport station. ¶ For 5-minute period.

COMPARATIVE DATA FOR JULY

Year	Temperature			Precipitation					Number of days			
	Average for State	Highest	Lowest	Average for State	Average, Northern Division	Average, Southwestern Division	Average, Southeastern Division	Snowfall, Average for State	Precip. .01 inch or more	Clear	Partly cloudy	Cloudy
1888	79.3	111	50	2.85	4.44	1.50	2.62	0	7	..	..	..
1889	77.1	107	46	4.02	4.22	3.80	4.03	0	8	..	..	..
1890	79.6	110	42	3.04	3.12	3.90	2.10	0	5	..	..	..
1891	72.7	103	45	3.23	4.13	4.16	1.41	0	8	..	..	..
1892	75.8	102	45	4.88	5.27	4.95	4.43	0	9	12	10	9
1893	77.3	103	51	4.67	4.72	6.19	3.10	0	8	14	12	5
1894	76.5	109	42	2.67	1.48	3.43	3.11	0	5	18	10	3
1895	74.4	106	45	6.77	6.36	6.91	7.03	0	10	10	12	9
1896	77.3	108	48	5.51	7.53	4.34	4.66	0	9	15	11	5
1897	78.7	106	48	3.14	4.11	2.70	2.62	0	6	19	9	3
1898	76.1	104	42	5.72	5.00	5.71	6.44	0	9	16	10	5
1899	76.0	102	43	4.50	4.88	4.32	4.30	0	9	15	11	5
1900	76.9	102	46	4.15	3.91	4.58	3.96	0	8	17	10	4
1901	85.4	116	46	2.02	2.23	1.93	1.90	0	5	19	10	2
1902	77.0	103	50	4.10	5.95	4.54	1.80	0	8	17	11	3
1903	77.4	102	51	3.40	2.79	3.56	3.85	0	8	17	10	4
1904	74.2	100	47	4.61	4.86	5.32	3.65	0	10	15	11	5
1905	73.4	101	48	8.07	4.86	9.90	9.46	0	12	12	10	9
1906	74.7	100	48	3.54	2.33	4.11	4.19	0	8	17	9	5
1907	78.4	105	51	4.56	6.62	3.78	3.28	0	8	19	8	4
1908	76.5	101	49	3.36	3.36	3.09	3.64	0	8	18	9	4
1909	76.7	102	41	6.16	7.01	6.33	5.14	0	10	17	8	6
1910	76.8	109	46	5.79	4.79	4.59	7.99	0	9	16	9	6
1911	78.0	113	43	3.68	3.41	4.78	2.86	0	8	16	9	6
1912	78.8	104	52	2.88	2.15	2.53	3.95	0	7	18	9	4
1913	80.2	108	47	3.10	2.52	2.86	3.93	0	7	18	9	4
1914	80.5	109	45	2.67	2.48	3.98	1.56	0	7	17	9	5
1915	74.6	102	42	5.74	9.05	4.39	3.78	0	12	14	9	8
1916	81.6	109	52	1.22	1.28	1.01	1.36	0	3	25	5	1
1917	77.5	107	42	3.08	1.71	3.36	4.18	0	8	20	8	3
1918	77.1	110	41	1.62	1.98	1.89	1.00	0	6	19	8	4
1919	80.0	105	50	2.30	3.00	2.21	1.69	0	5	23	6	2
1920	76.3	105	47	3.30	3.69	3.17	3.05	0	7	18	8	5
1921	80.3	109	46	2.32	2.29	2.39	2.28	0	5	20	8	3
1922	76.8	103	46	5.50	6.87	5.57	4.06	0	8	17	9	5
1923	78.2	105	50	3.16	2.61	4.29	2.59	0	6	18	8	5
1924	73.3	103	40	5.55	4.42	6.65	5.57	0	10	15	11	5
1925	77.9	106	46	2.70	2.56	2.76	2.79	0	7	16	10	5
1926	78.0	108	40	3.07	3.66	2.54	3.02	0	7	17	9	5
1927	75.8	101	48	4.16	2.82	5.38	4.28	0	8	18	9	4
1928	77.2	102	48	2.93	3.47	3.15	2.16	0	7	17	10	4
1929	77.8	104	50	4.03	5.50	2.58	4.01	0	8	16	10	5
1930	81.2	113	42	1.00	0.50	1.48	1.01	0	3	22	7	2
1931	80.3	110	49	3.31	2.83	3.45	3.65	0	7	18	9	4
1932	79.8	109	48	3.61	3.89	4.08	2.85	0	7	19	8	4
1933	79.3	108	49	2.67	1.73	2.44	3.84	0	5	18	9	4
1934	86.2	117	48	1.18	0.82	1.22	1.50	0	4	20	9	2
1935	80.8	104	53	3.30	3.90	2.06	3.94	0	6	20	9	2
1936	85.3	118	44	1.52	0.72	1.48	2.37	0	3	23	6	2
1937	77.9	105	45	4.06	4.80	3.34	4.05	0	8	17	11	3
1938	79.7	110	53	3.50	2.91	2.58	5.00	0	7	19	8	4
1939	80.0	107	51	2 91	3.13	2.24	3.37	0	6	19	9	3
1940	77.7	111	45	1.58	1.47	1.55	1.73	0	4	19	9	3
1941	79.3	110	46	2.75	2.56	3.02	2.74	0	7	16	11	4
1942	78.8	104	50	2.85	3.68	2.72	2.15	0	7	17	11	3
1943	79.6	104	46	2.49	3.68	1.77	2.02	0	6	18	10	3
1944	77.6	105	40	2.62	2.44	2.97	2.46	0	7	17	10	4
1945	75.1	105	44	2.10	1.87	2.50	1.92	0	6	18	9	4
1946	78.9	107	48	2.68	2.44	2.64	2.96	0	5	18	10	3
....	....	..	..	....	....	....	....	....	..	..	..	..
....	....	..	..	....	....	....	....	....	..	..	..	..
Period	**78.1**	**118**	**40**	**3.53**	**3.61**	**3.57**	**3.40**	**0**	**7**	**18**	**9**	**4**

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HIST.

Climatological Data for July 1946

Stations	Counties	Elevation, feet	Temperature, in degrees Fahr.							Precipitation, in inches						Number of days				Prevailing direction of wind	Observers
			Length of record, years	Mean	Departure from the normal	Highest	Date	Lowest	Date	Length of record, years	Total	Departure from the normal	Greatest in 24 hours[4]	Date	Total snowfall, unmelted	With precip., .01 inch or more	Clear	Partly cloudy	Cloudy		
Northern Division																					
Albany	Gentry	930	5	75.2[a]	......	95[a]	18	53[a]	2	17	2.48	−2.15	1.09	16	0	5	3[b]	24[b]	2[b]	s.	Curtis E. Grace
Amity	DeKalb	1,007	0	77.4	......	98	18	56	2	11	0.70	−1.93	0.50	15-16	0	4	19	7	5	se.	O. M. Colhour
Bethany	Harrison	916	51	76.0	− 0.3	98	18	53	2	53	0.82	−3.34	0.82	15-16	0	1	21	7	3	se	B. A. McGregor
Brookfield	Linn	767	5	79.0	......	102	18	55	2	5	2.52	......	0.69	27	0	7	21	9	1	s.	G. F. Breen
Brunswick	Chariton	652	65	78.6	+ 2.5	102	18	58	4	67	3.92	−0.19	1.10	30-1	0	9	17	6	8	ne.	O. K. Benecke
Canton, Lock & Dam 20	Lewis	488	8	76.0	......	98	10†	54	22	16	3.24	+0.91	2.60	16-17	0	3	21	4	6	se.	Lockmaster
Chillicothe	Livingston	779	37	78.6	+ 1.6	102	18†	56	2	40	3.20	−0.22	2.45	27	0	6	28	1	2	ne.	Wm. J. Olenhouse
Chillicothe 2 mi ESE(C)	Livingston	771	0	77.0	......	100	18†	55	2	0	3.70	......	3.01	27	0	7	11	18	2	e.	Civil Areo. Authority
Columbia	Boone	740	56	80.4	+ 3.1	104	23	59	4	56	4.79	+1.30	2.23	27-28	0	6	19	11	1	e.	U. S. Weather Bureau
Conception	Nodaway	1,108	57	77.6	+ 1.0	97	18	57	2	62	1.28	−3.39	1.18	15-16	0	2	24	7	0	e.	Fr. Adelhelm Hess
Edgerton	Platte	856	26	77.5	+ 1.4	100	18	53	2	43	0.25	−3.25	0.25	16	0	1	20	10	1	s.	W. A. Foster
Elsberry	Lincoln	449	15	76.5	− 2.9	100	18	50	3	15	3.23	+1.24	2.00	19-20	0	4	19	7	5	s.	Soil Conservation Service
Fayette	Howard	760	66	77.8	+ 0.6	100	18	54	4	63	8.15	+4.90	4.03	27	0	7	24	4	3	se.	Irvin E. Schnell
Fulton	Callaway	818	58	78.9	+ 1.2	102	18†	54	4	54	2.68	−0.61	1.17	19-20	0	8	27	2	2	s.	Frank E. Hillgartner
Grant City	Worth	1,134	42	76.6	+ 0.4	96	14	56	26	54	1.27	−3.36	1.15	16	0	4	21	6	4	e.	J. Homer Korn
Hannibal	Marion	759	54	77.4	+ 0.6	98	18	59	2	62	2.11	−0.98	1.07	17	0	6	22	5	4	se.	Hannibal Water Dept.
Kansas City Airport	Jackson	741	57	81.2	+ 3.1	104	18	60	2	57	0.94	−2.88	0.39	19	0	6	11	18	2	ne.	U. S. Weather Bureau
Kansas City Univ.	Jackson	908	8	82.1[a]	......	104[a]	18†	61[a]	2	8	1.17	......	0.55	19-20	0	5	10	19	2	s.	University of Kansas City
Kidder	Caldwell	1,020	54	76.5	− 0.1	99	18†	53	2	58	0.68	−3.20	0.43	15-16	0	7	21	6	4	sw.	Mrs. Geraldine Terry
Kirksville	Adair	969	57	77.2	+ 1.2	96	10†	57	3†	64	5.05	+0.75	4.31	16-17	0	6	25	5	1	sw.	Dr. Willis J. Bray
Lawson	Ray	1,070	8	....	......	..	..	..	..	8	....	......	....	..	.	..	..	..	..	......	Elmer E. Lamb
Louisiana	Pike	469	52	77.7	+ 1.3	101	18	50	4	65	4.35	+0.75	2.68	20	0	6	24	4	3	e.	Stark Bro's Nurseries
Macon	Macon	875	47	77.8	+ 0.6	99	18	54	4	53	1.60	−1.81	0.81	16	0	7	20	5	6	ne.	John W. Atwell
Maryville	Nodaway	1,169	56	76.6	+ 0.9	96	14	57	2	52	1.42	−3.81	1.21	16	0	4	19	8	4	se.	R. B. Montomery
Memphis	Scotland	787	7	76.4	......	99	10	54	26	16	8.04	+5.24	7.55	16-17	0	5	19	7	5	sw.	John W. Alexander
Mexico	Audrain	800	57	77.8	+ 0.5	101	18	54	2	68	3.88	+0.67	1.79	19-20	0	7	22	4	5	ne.	Darrence W. Stuart
Moberly .....3½ mi. NE	Randolph	860	9	77.8	− 0.3	101	18	55	2†	9	1.85	−0.75	0.85	20	0	5	23	4	4	e.	F. W. Bell
New Florence. 1 mi SE	Montgomery	885	3	77.3	......	102	19	53	4	4	1.48	......	1.41	19-20	0	3	13	10	8	se.	U. S. Weather Bureau
Oregon	Holt	1,048	90	78.1	+ 2.5	97	18	60	2	90	0 93	−3.25	0.90	16	0	2	19	10	2	sw.	James M. Curry
Polo	Caldwell	1,000	0	78.4	......	100	18	56	1	0	2.18	......	1.36	7	0	7	20	10	1	e.	F. B. Albright
St. Charles	St. Charles	520	58	....	......	..	..	..	..	68	....	......	....	..	.	..	..	..	..	......	....
St. Joseph	Buchanan	957	36	79.2	+ 1.8	101	18	59	2	74	1.28	−2.50	0.64	7-8	0	4	21	8	2	e.	U. S Weather Bureau
Saverton, Lock No. 22.	Ralls	472	8	78.0	......	102	18	58	2†	8	2.66	......	1.53	19-20	0	6	26[a]	3[a]	1[a]	se.	Lockmaster
Shelbina	Shelby	779	5	77.6[a]	......	101[a]	18	54[a]	2	53	0.76	−3.11	0.39	16-17	0	4	17[a]	10[a]	3[a]	nw.	Guyman Hatcher
Steffenville	Lewis	650	48	78.2	+ 0.4	100	18†	52	4	53	1.04	−3.07	0.73	16-17	0	5	21	8	2	ne.	Mrs. Fannie V. Gross
Tarkio	Atchison	916	43	75.2	− 1.6	91	14†	53	12	52	2.92	−1.23	2.55	15-16	0	7	10	11	10	se.	C. A. A. Station
Trenton	Grundy	822	50	77.8	+ 1.0	99	18†	57	2	51	4.17	+0.10	2.53	26-27	0	8	23	5	3	s.	W. H. Estes
Unionville	Putnam	1,062	53	74.9	− 1.6	95	15†	53	2	53	2.03	−2.09	0.99	16	0	7	20	10	1	s.	Mrs. Dora A. Wilson
Vandalia	Audrain	766	2	77.5	......	102	18	51	4	7	1.26	......	0.78	20	0	3	22	9	0	n.	Mrs. Naomi K. Stoutz
Warrenton	Warren	816	64	77.5	− 0.3	102	18†	48	4	56	1.16	−1.98	1.09	19-20	0	2	20	9	2	se.	W. T. Zimmerman
Keokuk, Iowa	Lee, Ia.	574	74	78.0	+ 1.1	100	18	58	25	74	1.92	−1.49	1.56	16-17	0	6	20	7	4	ne.	U. S. Weather Bureau
Division means	**and extremes**	....	..	**77.7**	**+ 0.7**	**104**	**18†**	**48**	**4**	..	**2.44**	**−1.17**	**7.55**	**16-17**	**0**	**5**	**20**	**8**	**3**	**se.**	
Southwestern Division																					
Anderson ...1½ mi SW	McDonald	1,000	42	76.6	− 0.7	101	24	52	3†	47	0.38	−4.03	0.21	29	0	2	27	4	0	sw.	Samuel G. Chamberlain
Appleton City	St. Clair	813	51	80.2	+ 2.0	104	23	56	3	54	2.04	−2.27	1.44	10-11	0	3	20	9	2	ne.	Rolla Brown
Bolivar	Polk	1,071	43	80.6	+ 3.3	105	24	56	4	51	1.70	−2.02	0.66	26-27	0	5	14	14	3	sw.	Southwest Baptist College
Boonville	Cooper	650	8	77.6	......	102	18	54	4	69	5.65	+2.41	1.71	26-27	0	7	17	10	4	e.	Boonville Water Dept.
Butler	Bates	865	0	81.3	......	106	22	53	3	5	3.87	......	2.95	26-27	0	5	19	12	0	ne.	F. S. Wolf
Camdenton	Pulaski	940	0	81.4	......	105	24	58	3†	0	1.79	......	0.80	27	0	6	21	8	2	s.	L. C. Scott
Carthage	Jasper	962	12	81.0	......	106	24	52	3	22	0.89	......	0.31	28	0	4	18	13	0	s.	Carthage W. and E. Plant
Clinton	Henry	786	53	80.2	+ 1.9	105	23	55	3	59	3.27	−0.16	1.74	10-11	0	7	17	12	2	s	U. S. Weather Bureau
Eldon	Miller	934	51	79.0	+ 1.8	103	23†	55	4	47	5.72	+2.50	3.46	28	0	4	22	5	4	ne.	Ira M. Wilson
Harrisonville	Cass	904	68	79.1	+ 1.4	102	18	56	2	71	1.02	−2.59	0.50	20	0	7	19	5	7	se.	Jeffrey B. Patterson
Jefferson City	Cole	557	56	78.7	+ 0.6	105	23	49	4	64	3.63	+0.52	1.84	28	0	5	21	8	2	w.	K. W. O. S. Radio Farm
Joplin	Jasper	1,008	24	83.5	+ 5.4	102	19†	63	3†	41	T.	−4.62	T.	27	0	0	17	14	0	s.	Empire Dist. Electric Co.
Lakeside	Miller	595	15	79.0	− 1.5	105	24	53	4	15	3.80	+1.65	2.90	27-28	0	7	16	11	4	ne.	W. S. Frame
Lamar	Barton	980	58	80.0	+ 1.6	104	24	58	3†	65	2.92	−1.30	1.45	11-12	0	5	26	5	0	sw.	Mrs. Marie Mann
Lebanon	Laclede	1,265	58	79.6	+ 2.7	104	24	52	4	59	3.45	−0.51	1.97	27-28	0	6	20	3	8	sw.	Mrs. Rosa E. Montelius
Lexington	Lafayette	688	61	81.8	+ 4 4	104	18	58	2†	62	0.40	−3.61	0.30	20	0	2	23	6	2	s.	Tilton Davis
Lockwood	Dade	1,078	40	81.4	+ 3.8	104	19†	57	4	50	1.87	−2.89	1.30	11	0	3	24	7	0	sw.	Hubert A. Nieman
Marshall	Saline	779	59	79.8	+ 2.3	101	10†	56	2†	56	4.70	+1.13	2.30	26-27	0	6	21	6	4	s.	Thomas A. Reid
Mountain Grove	Wright	1,463	15	79.4	+ 3.0	104	24	56	3†	49	2.26	−1.63	1.99	27-28	0	4	21	9	1	se.	Mo. Fruit Exp. Station
Mount Vernon	Lawrence	1,174	34	81.0	+ 3.3	103	24	53	12	46	6.99	+1.80	4.08	28	0	4	9	21	1	s.	James C. Williamson
Neosho	Newton	1,011	59	80.0	+ 2.5	102	17	52	4	63	1.37	−3.28	1 30	28-29	0	3	26	5	0	se.	U. S. Fisheries Station
Nevada	Vernon	862	53	82.8	+ 3.2	107	19†	56	3	54	1.90	−1.76	0.82	19	0	4	28	2	1	sw.	Henry Kraft
Ozark Beach	Taney	700	6	80 4	......	102	24	51	4	21	5.38	+1.99	3.29	28-29	0	6	9	18	4	sw.	Empire District Elec. Co.
Sedalia	Pettis	910	33	80.8	+ 3.3	103	19†	55	2	35	1.51	−2.93	0.59	11	0	6	25	3	3	se.	Dr. J. E. Cannaday
Seligman	Barry	1,542	45	78.6	+ 1.9	98	24	55	3	43	0.74	−3.38	0.42	28-29	0	3	25	6	0	sw.	Floyd E. Fawver
Seymour 3½ miles NE	Webster	1,642	40	77.2	+ 1.7	103	24	52	4	40	4.61	+0.67	2.53	28	0	6	24	5	2	se.	Ira H. Hailey
Springfield... 4 mi. NW	Greene	1,301	58	79.0	+ 2.8	104	24	57	3	58	1.47	−2.74	0.75	28	0	5	16	5	10	s.	U. S. Weather Bureau
Sweet Springs	Saline	700	5	79.3	......	104	10†	52	4	5	3.61	......	1.40	27	0	6	16	15	0	s.	H F. Nelson
Warrensburg	Johnson	878	59	81.6	+ 2.8	102	10†	58	3	66	3.09	−0.88	1.49	11	0	5	27	3	1	se.	Central Teachers College
Warsaw	Benton	687	45	81.8	+ 3.5	107	21	54	4	51	1.23	−2.78	0.77	11	0	6	15	14	2	se.	Dora B. Johnson
Wasola	Ozark	1,294	5	79.6	......	103	19	58	3	6	3.21	......	1.82	28	0	4	19	7	5	e.	A. W. Pinckney
Waynesville	Pulaski	805	0	79.4[c]	......	106[c]	19†	55[c]	2†	0	2.83	......	2.13	27-28	0	3	22[c]	4[c]	2[c]	s.	Jesse H. Barlow
Division means	**and extremes**	.....	..	**80.1**	**+ 2.4**	**107**	**19†**	**49**	**4**	..	**2.64**	**−0.93**	**4.08**	**28**	**0**	**5**	**20**	**9**	**2**	**s.**	
Southeastern Division																					
Advance.... ¼ mile W	Stoddard	354	9	79.0	+ 0.8	100	18	56	14	9	5.90	+2.54	3.64	20-21	0	9	9	15	7	ne.	U. S. Weather Bureau
Arcadia	Iron	926	65	75.1	− 0.7	103	24	53	3	68	3.04	−1.08	1.10	29	0	4	17	6	8	e.	Arcadia College
Birch Tree... ½ mile E	Shannon	1,000	51	....	......	.	..	..	..	52	....	......	....	..	0	..	..	..	..	......	R. C. Moger
Black.......9 miles NW	Iron	1,000	53	75.9	+ 0.3	101	24	49	3†	53	3.42	−0.27	0.98	20†	0	6	24	6	1	ne.	M. L. Volner
Campbell	Dunklin	314	20	80.0[b]	− 0.4	101[a]	18	56[c]	15	20	1.58	−1.90	1.17	20-21	0	5	14	17	0	s.	Mrs. Ruth Christian
Cape Girardeau	Cape Girardeau	347	1	79.8	......	97	18	63	2†	46	3.97	+0.55	1.91	19-20	0	8	7	20	4	se.	Homer R. Bolen
Caruthersville	Pemiscot	265	50	79.4	− 1.9	94	18	68	4†	54	6.47	+3.18	2.18	20-21	0	7	19	8	4	se.	Victor T. Malloure
Crystal City	Jefferson	420	12	79.9	+ 0.3	102	19†	55	4	12	1.89	−1.32	0.88	30-1	0	4	13	9	9	se.	Richard K. Ragland
Doniphan	Ripley	344	42	80.6	+ 2.0	105	18	57	14	42	4.47	+0.43	1.24	20-21	0	7	25	3	3	se.	Boyce Lackey
Farmington	St. Francois	896	35	77.5	+ 1.2	103	24	54	3†	49	1.26	−2.30	0.54	8	0	7	11	16	4	s.	F. M. Karsch
Greenville	Wayne	460	37	....	......	..	..	..	..	39	....	......	....	..	.	..	..	..	..	......	Beuford Shoemake
Jackson	Cape Girardeau	428	55	79.2	+ 1.6	100	18	58	14†	56	3.03	−0.51	1.72	19-20	0	8	11	17	3	sw.	Danny Siebert
Koshkonong	Oregon	958	45	78.6	− 0.2	102	18	58	3	46	3.36	−0.41	1.98	20-21	0	7	21	6	4	se.	Mrs Genevieve T. Smith
Licking...... 4 miles N	Texas	1,170	9	77.6	+ 0.4	103	23	50	5	9	2.76	+0.19	1.30	27-28	0	5	15	12	4	s.	Fern E. Austin
Marble Hill	Bollinger	532	51	78.7	+ 0.9	100	19	57	14	53	5.50	+1.48	2.31	20	0	9	20	11	0	sw.	R. A. DeWitt

Continued on next page

Climatological Data for July 1946—Continued from preceding page

Stations	Counties	Elevation, feet	Temperature, in degrees, Fahr.							Precipitation, in inches						Number of days				Prevailing direction of wind	Observers
			Length of record, years	Mean	Departure from the normal	Highest	Date	Lowest	Date	Length of record, years	Total	Departure from the normal	Greatest in 24 hours [4]	Date	Total snowfall, unmelted	With precip., .01 inch or more	Clear	Partly cloudy	Cloudy		
Southeastern Division—	*Concluded*																				
Poplar Bluff	Butler	339	41	80.0	+ 0.8	98	18†	59	14	42	3.25	−0.69	1.93	20	0	5	15	12	4	nw.	Osmon M. Richardson
Rolla	Phelps	1,202	46	79.0	+ 1.3	104	24	57	4	62	1.88	−1.51	1.15	28	0	5	9	20	2	se.	Rolla School of Mines
St. Louis:																					
City Office		465	109	80.6	+ 1.8	99	18	63	3	109	1.45	−1.53	0.98	19-20	0	4	13	14	4	s.	**Section Center**
St. Louis Airport	St. Louis	556	9	76.6	− 1.2	101	9†	59	4	15	1.63	−1.03	1.13	19-20	0	5	13	8	10	se.	U. S. Weather Bureau
St. Louis University	St. Louis City	578	34	80.4	− 0.1	99	9	64	3†	34	0.96	−2.22	0.48	19-20	0	6	24	6	1	se.	St. Louis University
Salem	Dent	1,206	42	79.0	+ 2.2	105	23†	51	3	45	2.30	−1.20	1.03	29	0	6	12	16	3	s.	E. E. Martin
Sikeston	Scott	318	39	79.8	+ 1.2	98	9†	60	27	49	3.51	−0.21	1.22	10	0	8	12	18	1	se.	Mrs. Lucy W. Humphreys
Union 1½ mi. SE	Franklin	520	8	79.0	+ 0.8	105	23	50	3†	29	1.13	−2.81	0.43	19-20	0	5	17	10	4	e.	Cornelius Sieges
Vichy 2 mi. NW	Maries	1,125	10	79.3	......	103	23	57	4	11	2.19	......	0.76	27	0	4	13	9	9	e.	Civil Aero. Authority
Wappapello Dam	Butler	475	7	79.5	......	98	17	64	2†	7	7.76	......	4.95	20-21	0	5	22	9	0	w.	U. S. Engineer Office
Webster Groves	St. Louis	507	0	77.8	......	98	19	56	4	1	1.98	......	1.68	20	0	5	21	8	2	se.	R. W. Lawrie
Weingarten	St. Genevieve	833	5	79.1	......	103	24	56	3	6	3.50	......	1.35	20	0	5	17	13	1	s.	William J. Miller
West Plains	Howell	1,005	9	78.4	+ 0.7	101	18	55	2	9	3.79	+1.35	1.95	27-28	0	4	11	14	6	se.	U. S. Weather Bureau
Willow Springs 500 ft E	Howell	1,238	5	77.6	......	99	19†	59	22	39	5.04	+1.24	3.48	27-28	0	6	14	11	6	s.	Allen Frazee
Cairo, Ill.	Alexander, Ill.	314	74	80.3	− 0.3	97	18	63	27	75	2.68	−0.39	1.15	9-10	0	8	8	11	12	ne.	U. S. Weather Bureau
Division means	**and extremes**	....	..	**78.8**	**+ 0.5**	**105**	**18†**	**49**	**3†**	..	**2.96**	**−0.44**	**4.95**	**20-21**	**0**	**6**	**15**	**12**	**4**	**se.**	
State means	**and extremes**	.....	..	**78.9**	**+ 0.8**	**107**	**19†**	**48**	**4**	..	**2.68**	**−0.85**	**7.55**	**16-17**	**0**	**5**	**18**	**10**	**3**	**se.**	

The departures from normal temperature are computed from the averages of the entire period for stations having 10 or more years of record. Departures of precipitation for stations with 15 years or more of record are computed from a normal or "standard mean", adjusted to a uniform 35-year period; for stations of 10 to 14 years the means for the period of record are used. The normal may be found by adding the departures when minus (−) or subtracting when plus (+). Figures and letters following stations indicate distance in miles and direction of station from the city Post Office, unless otherwise indicated. T. Trace or 0.005 inch or less. [a], [b], [c], etc., number of days missing; for example, [b], indicates two days missing. Italics data interpolated. § Partly interpolated. † And other dates. ‡ Received too late to be included in means and summaries. [4] Best available used for stations not equipped with recorders. Post office address of: Altona is Adrian; Crane Mountain is Arcadia; East End is Goodland; Eastwood Lookout is Van Buren; Ellsinore Lookout is Mill Spring; Hailey is Cassville; High Lookout is Birch Tree; Macedonia Lookout is Doniphan; Perry is Center; Pilot Knob is Ironton; Wilderness Lookout is Lampe. (C) Airport.

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yields and quality were generally good. Pastures were unusually good for the time of year, except in the dry areas where they were showing the effects of hot dry weather. In some of the drier localities water supplies were becoming short the latter part of the month. Cotton in the extreme southeastern counties made good progress and was blooming profusely as the month closed. Some preparation of fields for seeding of fall grains was accomplished the latter part of July, where rainfall was adequate. Harvest of early peaches was completed during the month and the late crop was about ready the closing week in the southern part of the State. Truck and garden crops made good progress, except in the dry areas, and early potatoes in commercial producing areas were harvested during the month.—M. R. W.

TEMPERATURE

The monthly mean for the State, 99 stations reporting, was 78.9°, or 0.8° above the 59-year July average. The highest monthly mean was 83.5° at Joplin, and the lowest was 74.9° at Unionville. The highest reported was 107° at Nevada on the 19th and 24th and at Warsaw on the 24th, and the lowest was 48° at Warrenton on the 4th.

PRECIPITATION

The average for the State, 209 stations reporting, was 2.68 inches, or 0.85 inch less than the 59-year July average. The greatest monthly amount was 8.15 inches at Fayette, and the least was only a Trace at Joplin. The greatest amount reported in 24 hours was 7.55 inches at Memphis on the 16-17th. The average number of days with 0.01 inch, or more, was 5.

MISCELLANEOUS PHENOMENA

Auroras.—26th, 27th.

Floods.—In Grand River, at Chillicothe, from June 30th to July 2d. In Mississippi River, at Louisiana, continued from June to July 15th; also, in the reach from Hannibal to Louisiana from July 19th to 20th.

Fogs.—Heavy, 6th, 17th, 30th.

Hail.—Light, on 10th 12 miles southeast of Butler; 27th near Cuba; 28th at Pierce City. Heavy, on 19th near Elsberry; 26th at Butler. (See special storm table).

Windstorms.—10th, 16th, 27th, 28th. (See special storm table).

ERRATA

June 1946, page 47: Maximum temperature at St. Louis on 4th should be 73.

Daily Precipitation for July 1946

Stations	Drainage-basins	Day of month																															Total
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Northern Division																																	
Albany	Grand						.38			.78							1.09					T.				.11		.12					2.48
Amity	....do						T.	T.	.13							T.	.50									.02		.05					0.70
Auxvasse	Missouri							T.				T.					.03				1.53					T.		.36	.23		T.		2.15
Bethany	Grand						T.			T.							.82							T.		T.		T.					0.82
Bowling Green²	Mississippi									.40								.47			.59	.20	.10										1.76
Brookfield²	Grand	.52								.57							*	.47										.65	.04	.27			2.52
Browning.....3 mi. NE	....do							T.	T.	.13							.85	T.			T.					.16		.27	.30				1.71
Brunswick²	....do	1.10							.23	.12		.46					T.	.15			.38						T.	1.06	.27	.15		T.	3.92
Canton, Lock No. 20²	Mississippi									T.	T.	T.					T.	2.60	.04		T.					.60	T.		T.				3.24
Centralia²	....do	.22						.13				.12									1.44							.44	*	.71			3.06
Chillicothe²......(A)	Grand								.19	.09											.15						T.	2.45	.30	.02			3.20
Chillicothe²......(B)	....do	.18							.50	.15		.02					.02	.09			T.						T.	2.47	.41	.02			3.86
Chillicothe³ 2 mi ESE(C)	....do							T.	.45	T.						T.	.06			.04	.06					T.	.02	3.01	.06				3.70
Columbia¹, ⁵	Missouri							T.	.01		.09	.01					T.			T.	1.20					T.		2.20	1.28				4.79
Columbia⁵..9 mi. WNW	....do							T.	.03			.68					T.				.75					T.		2.58	1.70				5.74
Conception	....do						T.									T.	1.18										.10						1.28
Edgerton	....do																.25																0.25
Edina²	Mississippi	.05							.04								T.	3.70									T.	T.					3.79
Elsberry S. C. S.²	....do									.03			T.					1.00			2.00	.20											3.23
Fayette	Missouri							.08	T.		.42	.29					.12	T.			1.75					T.		4.03	1.46				8.15
Fulton²	....do									.18	T.						.02				1.17							.52	.56	.02	.02	.19	2.68
Gallatin²	Grand	*.20*								*.12*							*	.40			.05							1.91	.22				§2.90
Grant City	....do						.03										1.15				T.		T			.01		.08					1.27
Hannibal¹.........(A)	Mississippi									.05							.14	1.07			.79					.01		.05					2.11
Hannibal².........(B)	....do	.08								.17								1.72			.64	T.							.08			T.	2.69
Hermann²	Missouri									.02											1.30	.05						.02	.26				1.65
Kahoka²	Mississippi															.30		2.70								.10							3.10
Kansas City Airport¹, ⁵	Missouri						.33	.01	.04	T.		T.				T.	.03			.39	T.					T.	T.	.14					0.94
Kansas City University	....do						.33			.04							.07				.55							.18					1.17
Kidder²	Grand	T.						T.	.02	.16							.08	.35									.03	.02	.02				0.68
King City	Missouri									T.							.90																0.90
Kirksville	Mississippi							T.		.46							2.00	2.31								.01		.05	.22				5.05
LaBelle²	....do																	2.23															2.23
Lawson	Missouri																																....
Linneus	Grand									*.35*							*.66*									T.		1.22	.19				§2.42
Louisiana.........(A)	Mississippi									.10							.03	1.26			2.68	.08							.20				4.35
Louisiana².........(B)	....do	.03								.01								1.44	.07		1.56	.15	.17										3.43
Lucerne²	Grand									.30							*	1.03								T.		*	.68				2.01
Macon²	Chariton	.35															.02	.81			.17							.03	.19	.03			1.60
Madison²	Mississippi	.98																.05			1.25							.09					2.37
Martinsburg²	Missouri	T.								.03	.22	T.						.02			1.01	.08					T.	.05	.01	.04			1.46
Maryville	....do										.03					T.	1.21									.10		.08					1.42
Memphis²	Mississippi	.08								.14							.12	7.55								T.		.15					8.04
Mexico²	....do	.03								1.48	.06										1.79							.15	.35	.02			3.88
Milan²	Grand	.06							.06								.33	1.07									.10	.20	1.10	.24			3.16
Moberly² ....3½ mi. NE	Mississippi																	.06			.85							.38	.47	.09			1.85
Monroe City	....do																.14	.32			2.48							.06					3.00
New Florence³, ⁵ 1 mi SE	Missouri									T.							T.	T.		.10	1.31						T.	.07	T.				1.48
Oregon	....do															T.	.90				.03					T	T.						0.93
Palmyra²	Mississippi																																....
Paris²	....do	.13																.05			1.81							T.	.06				2 05
Perry ....1 mile E	....do																.05	.05			.35												0.45
Philadelphia	....do																.10	1.00								T.							1.10
Polo²	Missouri						T.	.25	1.36		.05					T.	.11			.39						T.		*	.02				2.18
St. Charles².......(A)	.... do																																....
St. Charles².......(B)	.... do									T.								.26	.05		.60	.97											1.88
St. Joseph¹, ⁵	....do							.04	.60		T.					T.	.59			T.						T.	.05	T.					1.28
Saverton, Lock No. 22²	Mississippi	.01								.12	T.						T.	.97			1.51	.02							.03				2.66
Shelbina	....do							.10									.09	.30			.27												0.76
Shelbyville²	....do																	.47			.09												0.56
Steffenville	....do										T.						.23	.50			.12					.11		.08					1.04
Tarkio³	Missouri						T.	.06		T.	.10					.15	2.40			T.						.09	.11	.01	T.				2.92
Trenton²	Grand	.30								.42							.16	.44									.07	2.53	.04	.21			4.17
Troy²	Mississippi									.42								.01			1.20	.15											1.78
Unionville²	Chariton	.06								.11							.54	.99									.03	.15	.15				2.03
Vandalia	Mississippi							T.		.43							T.	.05		T.	.78	T.											1.26
Warrenton	....do																			T.	1.09	.07											1.16
Keokuk, Iowa¹	....do							.11		T.	.01					.11	.97	.61			T.					.11		T.					1.92
Southwestern Division																																	
Altona²	Osage	.47										.33									.18							2.46	T.				3.44
Anderson² ...1½ mi. SW	Neosho	.17																											T.	.21			0.38
Appleton City	Osage											1.44															.20	.40					2.04
Ava Ranger Station²	White	.64																									.42	.80	.90	.40	.05		3.21
Bolivar	Osage	.12							.24			.58															.10	.66		T.			1.70
Boonville².......(A)	Missouri								.80			.75					.02				1.03							1.71	1.29	.05			5.65
Boonville².......(B)	....do	.03							.54			.63					T.				.87							1.87	1.40	.04			5.38
Bradleyville²	White	.10																									.89		.27	1.05			2.31
Buffalo²	Osage	.20										.10	.03																1.40		.10		1.83
Butler	....do								.04			.70									.15							2.95	.03				3.87
Camdenton	....do	.01										.03					.53											.80	.38		.04		1.79
Caplinger Mills²	....do	.21										.48															T.	.11	.07	.05			0.92
Carthage	Neosho	.25										.03															.30			.31			0.89
Cassville	White	.58																											.05	.10			0.73
Chadwick²	....do	.38										T.															.26	.29	.86	.04			1.83
Clinton³	Osage						.24	.45	.33		.12	1.62					T.				T.							.26		.25	T.		3.27
Concordia	Missouri									.78		.33					T.				1.69							.24					3.04
Crocker	Osage											.05				.03												.57	2.90				3.55
Eldon	Missouri							.07				.79																1.40	3.46				5.72
Eldorado Springs	Osage							T.				.61															.06	.30	.04		.04		1.05
Elijah²	White																				.55	1.53					.10		2.62	.17			4.97
Forsyth²	....do	.44																									.32	.11	.09	1.71			2.67
Galena²	White	.12																									1.24		.10	.17			1.63
Granby²	....do	.84																											*T.*	.41			1.25
Hailey	....do																										.48		.02				0.50
Harrisonville²	Osage	.05										.20					*	.03			.50							.20	.04				1.02
Jefferson City.....(A)	Missouri							.10	T.			.03	T.				T.				.08							1.58	1.84				3.63
Jefferson City².....(B)	....do	.03							.06			T.					.01				.11							1.51	.77	.44			2.93
Joplin¹	Neosho																											T.					T.
Lakeside², ⁵	Osage	.01							T.			T.	.03					.34			.09							.04	2.90	.39			3.80

Continued on next page

Daily Precipitation for July 1946—Continued from preceding page

Stations	Drainage-basins	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Total
Southwestern Division—	*Concluded*																																
Lamar²	Neosho	.90										.70	.75														.05			.52			2.92
Lebanon²	Osage	.38										T.	.03					.34										T.	1.97	.31	.42		3.45
Lexington²	Missouri									.10											.30												0.40
Lockwood	Osage	.51										1.30															.06	T.		T.			1.87
Mansfield²	White									.10																	.23	.13	.76	.92			2.14
Marshall	Missouri								.18			.02					.10				.88							2.30	1.22				4.70
Marshfield²	White	.34										.01	T.														.03	.03	2.04	.10	.08		2.63
Mountain Grove²	Gasconade	.03																			.01								1.99	.23			2.26
Mount Vernon²	Neosho	.07										2.72															.12	T.		4.08			6.99
Neosho	do	.03																										T.	.04	1.30			1.37
Nevada	Osage	.18										.42									.82							.48					1.90
Osceola²	do	.17										1.51	T.								*.11*							.26	.30				§2.35
Ozark²	White	.30											.08														.06		.12		.07		0.63
Ozark Beach²	do	.27																				.54					1.17	.11	.11	3.18			5.38
Pierce City²	Neosho											.19															.55			1.82			2.56
Pineview Lookout²	White																																....
Pleasant Hill²	Osage	.98						T.				.12						T.			2.11							.12	.30				3.63
Roby	Gasconade											T.									T							.33	3.66		T.		3.99
St. Thomas². 2¼mi SW	Osage												*.02*					*.30*			*.11*							3.30	1.70	.88			§6.31
Saunders Lookout²	White																																....
Sedalia	Missouri							.18				.59					.30				.11							.19	.14				1.51
Seligman²	Neosho	.18																				.14								.42			0.74
Seymour²....3½ mi. NE	White	.94											T.														.13	.32	1.07	1.46	.69		4.61
Shell Knob²...3 mi. SE	do																																....
Siloam Sprgs Lookout²	do																				*	.95							3.84				4.79
Springfield¹,⁵. 4 mi. NW	do								T.			.07															.16	.17	.75	.32			1.47
Stover²	Missouri	1.85							.14			.30									*.63*							*	.76				§3.68
Sugar Camp Lookout²	White																																....
Sweet Springs	Missouri									.01		.99					.01				1.14							1.40	.06				3.61
Tecumseh²...¼ mi. W	White																																....
Topaz²	do																				*T.*								3.20	.26			3.46
Vanzant²....3¾ mi. SE	do										1.13										T.								1.57	.14			2.84
Waco²	Spring	.04											.20								.04												0.28
Warrensburg	Missouri						.10					1.49					T.				1.15							.34	.01				3.09
Warsaw²...(A)	Osage	.20										.62	.15				.02	.05										T.	.19				1.23
Warsaw²...(B)	do	*.15*										.78					*.03*	*.05*										.20					§1.21
Wasola²	White																										1.33		.89	.93	.06		3.21
Waverly²	Missouri								.07	.20							T.				.39							.77					1.43
Waynesville	Gasconade									.23								T.										.47	2.13				2.83
Wilderness Lookout²	White	.22																									*	.82		.11			1.15
Southeastern Division																																	
Advance³....½ mile W	St. Francis	.39					.41			.18	.04							T.	.03	T.	2.25	1.39							T.	.95		.26	5.90
Alton.......10 miles SE	Black																			.25		1.02						.09	.62				1.98
Annapolis²....7 mi. W	do	2.60								.02	.52										.02	.03						.03		.15		.11	3.48
Arcadia²	St. Francis	.95								.39												.60									1.10		3.04
Belleview²	Meramec	.15							T.										.01		.09	.40						.03			.02	T.	0.70
Bernie²	St. Francis	.25					.11			.35	.08											1.72	.08										2.59
Birch Tree²...½ mile E	Black																																....
Black......9 miles NW	do									.77											.98						.06		.30	.98	.33		3.42
Bloomfield²	St. Francis		.08				.04			.07									.03		.69	.63									.05		1.59
Bunker²...4 miles NW	Black	2.00																			.89						.60			1.25	.16		4.90
Campbell	St. Francis					T.	.03	.01	T.		.37										.55	.62								T.			1.58
Cape Girardeau...(A)	Mississippi	T.				.01		.01			.89	.01							T.		1.91	.53								.60		.01	3.97
Cape Girardeau²...(B)	do	.39	T.								T.	.65									1.58	3.22									.17		6.01
Caruthersville²...(A)	do	.51				T.	.10	T.			2.02		.51									1.67	.51								1.15		6.47
Caruthersville²...(B)	do	.59				.02			T.		2.25		.49									1.73	.54								1.08		6.70
Centerville(1)²	Black	1.62								.26	.25											.50					.02		*	.33	.02	.03	3.03
Centerville(2)²	do	1.81								.05	.22									.07	.13	.26						T.	.03	.28	.02	.02	2.89
Cook Station²	Meramec																			*T.*								.33	.88		.45		1.66
Crane Mountain²	St. Francis	.55								1.47											1.07	1.27							T.		.16	.36	4.88
Crystal City	Mississippi	.88									.02	*T.*							T.		.82	.17											1.89
Cuba	Meramec									*	.46																	.42	.52	.48	.01		1.89
Deering²	St. Francis		.05				.06			1.50												.27	.05										1.93
De Soto²	Mississippi	.19							.18	.01										.50	.70	.95											2.53
Dexter²	St. Francis	.08	.20							.14	.21								.02			.34											0.99
Doniphan(1)	Black									.25								T.		.82		1.24							.35	.35	.36	1.10	4.47
Doniphan(2)²	do	.17					.09				.13										.79	.91								1.50	.09	.05	3.73
East End²	Meramec	.65							.25												.25	.55							.14		1.45		3.29
Eastwood Lookout²	Black	.25								.60											.07								.60	1.00			2.52
Ellington	do																				.10							.06	.40	.44			1.00
Ellsinore Lookout²	do	.28									.16										.62									.11			1.17
Farmington²	St. Francis	.14								.54	.02	.05									.10	.13									.28		1.26
Fisk²	do																					2.10									.92		3.02
Fredericktown²	do	T.	.28																		.78											.10	1.16
Gerald	Meramec									.29										.28								.29	.20				1.06
Greenville(1)	St. Francis																																....
Greenville²(2)	do	.39								.02	.09								.46		.02	3.90							T.	.01			4.89
High Lookout²	Black																																....
Jackson	Mississippi	.08								.50	.01							T.		.99	.73	.40								.30	.02		3.03
Jefferson Barracks²	Mississippi									.15	.24	T.							.02		.70	.67									.15	.03	1.96
Jerome²	Gasconade																											3.74	.62				4.36
Koshkonong²	Black	.17									.15										.10	1.98						.21	.38	.37			3.36
Leeper²	do	1.04	T.					T.		1.34	.16										.25	.68							.19	.19			3.75
Licking²	Gasconade	.10								.19																		1.10	1.30	.07			2.76
Macedonia Lookout²	Black	.50						.47		1.50											.49									.62	.23		3.81
Marble Hill	Mississippi	1.75							.14	.30	.10							.45		.40	1.75	.56								.05			5.50
Meramec Park²	Meramec									.16	.79								.01										.19		.02	.06	1.23
Morehouse	Mississippi		.08				T.	.86		.16	.20	1.30						T.			1.80	.74								.46	.03		5.63
Moselle²	Meramec																					.51									.14		0.65
New Madrid²	Mississippi	.41	T.			T.	.73				.13	.52	T.									.35	.82								.07	T.	3.03
Oates Tower²	Black	1.03									.03							T.	T.		.67	1.04					T.	T.	.39	T.	.26	.14	3.56
Owensville²	Gasconade								*	.93	.07																	.15	.35	.41		.76	2.67
Pacific²	Meramec								*T.*	*T.*	*.21*								*T.*		1.61	*T.*							*T.*		*T.*		§1.82
Parma²	St. Francis	.15					.06		.11	T	2.56								.18			2.02										T.	5.08
Perryville	Mississippi							T.		.07	T.									T.	.20									.20	.10		0.57
Pilot Knob²...2 mi. NE	St. Francis																																....
Poplar Bluff²	Black	.60								.30									.01		.41	1.93								T.	T.		3.25
Puxico²	St. Francis	.23						.03		T									.78		.30	2.30									.05		3.69
Qulin²	do	.50				T.			.36	.22	T							T.			T.	.25										T.	1.33
Reynolds²	Black	1.98									.70								.19		.18								.36	.20	.65	.11	4.37
Richwoods²	Meramec									.02	.05										.17	.60						*T.*	*T.*		.19		1.03
Rolla²	do	.05								T.																		.60	1.10	.05		.08	1.88

Continued on next page

Daily Precipitation for July 1946—Continued from preceding page

Stations	Drainage-basins	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Total
Southeastern Division —	*Concluded*																																
Round Spring²	Black	1.94																			.42	.58						.45		.50			3.89
St. Louis:																																	
City Office¹,⁵	Mississippi							T.		.24	T.	T.					T.	.23		.01	.97									T.	T.		1.45
Airport³,⁵	Missouri									.05		.02						.42		.27	.87	T.				T.			T.				1.63
St. Louis Univ.¹,⁵	Mississippi							.09		.05								.26		.03	.45					T.				.08	T.		0.96
Washington Univ.²	...do								.02	.02	.06							.09	.06		.50	.56											1.31
Salem²	Meramec	T.								T.	.27								T.			.10						.40	.50	.52	.51		2.30
Sikeston²	Mississippi	.18	.03							.05	1.11	1.22							.01			.67									.24		3.51
Steelville² ...2½ mi. NE	Meramec										.59											.18						.21	*	.59			1.57
Summersville²	Black	2.62							.05												.85	1.00						.56	.55	.38			6.01
Union² ....1½ mi. SE	Meramec									.14	.25										.40	.03							T.		.31		1.13
Valley Park²	...do								T.		T.							T.	T.		.39	T.							T.				0.39
Van Buren²	Black	.71								.30	.57																		.16	.60		.50	2.84
Vichy³ .....2 miles NW	Meramec									.67		T.					T.	T.		T.								.76	.72	T.	.04		2.19
Wappapello Dam²	St. Francis	.20	.12							T.									1.82		.67	4.95											7.76
Webster Groves	Mississippi									.15	.02							.10	.03		1.68												1.98
Weingarten	...do								.75		.10										1.10	.25								1.30			3.50
West Plains³	Black							T.												.40	.63						T.	1.03	1.73		T.		3.79
Williamsville²	...do	*1.50*		.06						.06												.31											§1.93
Willow Springs² 500 ft E	White	.40																			.47	*	.31						3.48	.38			5.04
Winona Ranger Sta.²	Black	1.54								.54										.80									*	1.50			4.38
Zalma²	Mississippi	.48					.15					.15							.07		.16	1.55								.81			3.37
Cairo, Ill.¹,⁵	...do	.79				.01				.19	1.04							T.	T.		.58	.03									.01	.03	2.68

Except as otherwise indicated, amounts are for 24 hours ending late in afternoon. ¹ Midnight to midnight. ² Measured in the morning; for the preceding 24 hours. ³ Data for 24 hours ending 12:30 A. M. (C. S. T.) of following day. ⁵ Recording gage. T. Trace or 0.005 inch or less. * Included in next measurement. // Windshield on gage. Italics data interpolated. § Partly interpolated. (A) Record from cooperative station gage. (B) Record from river station gage. (C) Airport. ‡ Received too late to be included in means and extremes.

Daily Evaporation (inches), Mean Temperature (F°), and Wind Movement (miles) for July 1946

(See precipitation data in daily precipitation table)

Station	Data	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Monthly
Columbia (Univ. of Mo. Hort. Exp. Sta. 9 mi. WNW.)	Evaporation	.231	.230	.264	.327	.200	.250	.300	.209	.351	.417	.459	.321	.310	.319	.288	.220	.344	.440	.377	.419	.350	.280	.361	.209	.464	.246	....	.330	....	.105	.233	9.465
	Mean temperature	74	68	70	70	76	80	81	84	86	88	83	74	76	79	82	82	86	86	86	82	77	76	84	85	80	75	74	72	78	78	78	79.0
	Wind movement	44	9	16	11	8	7	24	15	47	65	58	10	15	8	4	32	74	51	21	41	24	17	40	19	42	33	72	36	9	10	11	873
Lakeside (Osage Dam)	Evaporation	.213	.199	.254	.293	.253	.280	.304	.264	.276	.406	.388	.290	.316	.311	.257	.267	.063	.402	.357	.357	.200	.335	.290	.366	.315	.368	.328	....	.026	.194	.246	8.699
	Mean temperature	75	70	70	72	76	79	80	84	86	84	81	74	76	79	82	82	86	84	86	80	76	76	82	86	82	80	75	70	77	78	80	79.0
	Wind movement	27	30	29	31	14	18	26	11	12	40	55	32	24	22	8	19	24	17	25	32	24	25	14	34	28	46	61	42	22	17	10	819
St. Louis (Washington University)	Evaporation	.206	.253	.278	.266	.227	.196	.214	.188	.225	.229	.275	.232	.254	.224	.258	.270	.204	.088	.287	.266	.094	.246	.279	.271	.332	.216	.258	.154	.190	.215	.217	7.112
	Mean temperature	78	72	73	75	80	80	83	86	86	86	82	76	77	78	82	81	82	88	88	75	78	76	80	88	76	74	74	77	79	80	80	79.6
	Wind movement	17	44	36	26	15	15	15	12	15	17	29	29	25	14	13	33	28	21	21	22	17	22	22	31	39	43	27	17	12	18	16	711

Observations taken at 8:00 a. m. except at 5:00 p. m. at Columbia. For Lakeside and St. Louis (Washington University) descriptions see April 1932 and August 1938 reports, respectively. * Included in next measurement.

Missouri Storms, July 1946

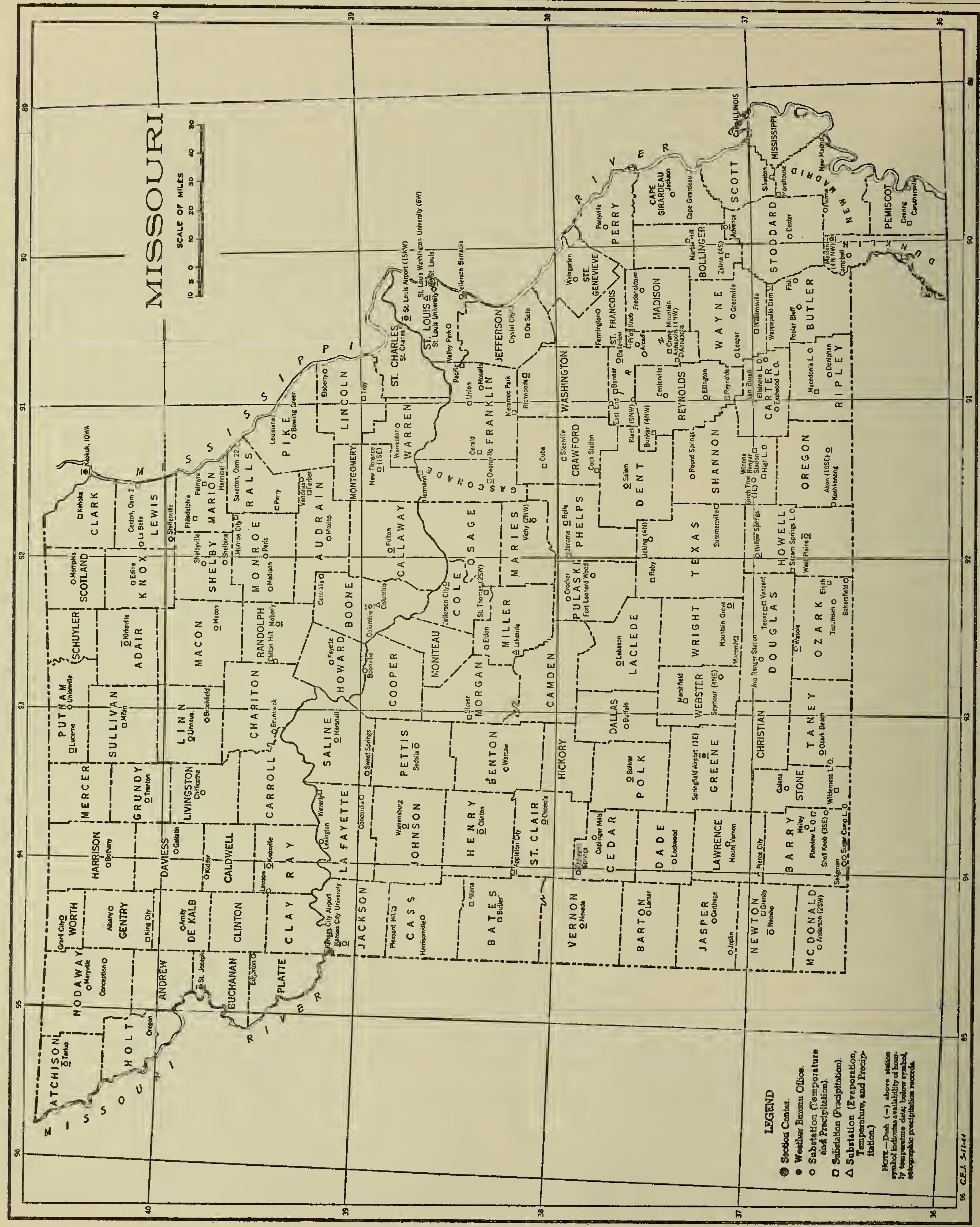
County	Date	Time	Nature of storm	Storm moved from	Width of path (miles)	Length of path (miles)	Loss of life	Property damage (estimated)	Remarks
New Madrid	8	....	Thunderstorm	......	....	....	1	....	A young girl was struck and killed by lightning near Gideon.
Bates	10	Evening	Wind, hail and lightning	......	....	....	.	....	Occurred 12 miles southeast of Butler. Details not available.
Sullivan	16	6:00 p.m.	Straight-line wind	wnw.	....	....	0	Slight	Occurred a few miles north of Browning. "Some corn blown down; little damage otherwise."
Lincoln	19	6:00 p.m. to 6:15 p.m.	Heavy hail	nw.	¼ to 1	3 to 6½	0	Not reported	Storm occurred 5 miles north of Elsberry, extending to the Mississippi River from about 5 miles to the west. Reports from two farms affected reported damage to corn, soybeans, fruit, roofs, and 21 broken windows. Hailstones averaged ½ inch with some 1 inch in diameter.
Bates	26	During night	Heavy hail and wind	......	....	....	0	Unknown	Details not available. Observer at Butler reported "Much hail, electricity, and wind northeast night of 26th."
Boone	27	Early morning	Thunderstorm and wind	sw.	....	....	0	$500	A house trailer was crushed and demolished by a falling tree limb and one person was slightly injured at a trailer camp near Columbia. Lightning set fire to a small garage badly damaging it. A 40-acre pasture was set afire by lightning and burned off, 2 miles north of Columbia, during this storm.

Time used on this tabulation is Central Standard Time, unless otherwise indicated.

Daily Temperatures for July 1946

Stations		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Northern Division																																	
Brunswick /	Maximum...	80	83	84	87	94	94	90	91	98	100	86	88	91	95	95	86	100	102	95	87	90	92	101	94	82	89	80	78	88	91	91	90.4
	Minimum ...	66	59	59	58	59	65	68	70	72	74	72	63	63	65	67	71	73	77	76	69	65	65	65	67	66	61	61	68	68	68	69	66.7
Chillicothe /	Maximum...	81	83	85	87	92	94	91	93	95	97	88	90	93	96	94	94	101	102	90	89	91	94	102	92	79	87	80	80	89	91	91	90.7
	Minimum ...	65	56	59	59	61	69	70	72	71	72	69	61	61	60	71	71	74	76	75	67	66	64	66	65	63	60	64	68	68	68	67	66.4
Columbia	Maximum...	84	83	86	90	93	95	97	96	100	101	90	99	94	97	99	91	98	102	103	85	91	92	104	98	87	88	82	78	90	91	92	92.5
	Minimum ...	65	60	60	59	65	71	72	74	75	75	70	62	66	67	72	76	78	77	75	66	64	65	69	73	66	63	64	66	67	69	68	68.4
Fayette	Maximum...	81	81	84	87	92	92	93	94	97	98	85	88	90	95	96	86	97	100	98	85	89	90	97	92	83	88	86	78	88	91	89	90.0
	Minimum ...	66	56	57	54	62	66	67	71	74	74	66	61	61	63	67	72	76	72	71	67	65	63	63	70	64	60	64	67	65	66	67	65.7
Grant City	Maximum...	82	79	79	84	89	91	90	90	92	94	84	88	89	96	90	75	92	95	87	88	88	90	91	85	79	85	84	82	89	91	90	87.4
	Minimum ...	59	57	60	60	75	69	71	69	70	75	62	59	62	65	70	70	71	74	73	70	65	62	66	61	59	56	67	68	61	66	65	65.7
Hannibal	Maximum...	82	83	84	86	91	91	93	94	91	97	85	87	88	92	89	78	91	98	95	83	86	85	96	88	74	83	82	85	89	90	90	87.9
	Minimum ...	65	59	60	60	62	68	68	73	72	75	69	64	64	68	69	69	69	74	75	69	66	64	65	69	64	60	64	65	67	68	67	66.8
Kansas City Airport	Maximum...	80	84	86	92	95	93	91	97	98	99	86	88	96	98	95	99	102	104	92	88	93	94	104	99	83	94	83	85	88	92	95	92.7
	Minimum ...	65	60	62	66	65	72	74	73	76	78	71	64	67	72	73	76	79	81	68	68	67	67	76	69	65	63	69	71	67	69	70	69.8
Kirksville	Maximum...	79	82	83	87	92	93	87	93	94	96	89	89	91	94	86	75	94	96	91	85	86	87	96	87	79	83	80	80	89	89	88	87.7
	Minimum ...	64	58	57	57	63	69	72	69	71	77	68	62	63	65	70	69	69	77	76	68	66	62	66	66	67	68	63	66	65	67	66	66.6
Lawson	Maximum...	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
	Minimum ...	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
Louisiana	Maximum...	85	85	87	90	93	93	97	97	96	100	90	90	92	97	96	84	87	101	100	85	83	88	95	91	85	82	82	86	92	93	91	90.7
	Minimum ...	70	52	55	50	54	65	62	69	73	73	75	56	57	60	64	72	73	73	75	70	62	60	63	72	65	60	65	65	64	65	66	64.7
Macon/	Maximum...	82	85	83	86	93	93	92	94	97	98	88	89	91	95	92	77	96	99	95	86	90	92	98	91	72	88	83	80	92	93	93	89.8
	Minimum ...	65	63	56	54	61	62	69	62	73	76	69	62	62	65	66	71	71	74	77	68	65	68	67	68	61	58	63	64	65	65	66	65.7
Maryville	Maximum...	82	79	81	86	90	91	90	92	93	92	84	87	89	96	91	80	93	95	90	87	90	90	91	85	77	84	83	81	90	91	91	87.8
	Minimum ...	59	57	59	60	64	68	71	69	70	73	60	62	61	66	70	69	68	74	72	61	62	63	66	62	60	60	68	68	68	67	68	65.3
Mexico /	Maximum...	81	82	84	87	91	93	95	98	96	98	86	88	90	94	97	87	98	101	100	83	89	88	99	93	84	85	82	80	90	92	91	90.4
	Minimum ...	67	54	55	56	57	67	70	72	70	69	72	60	63	66	68	71	73	75	75	69	62	61	64	64	65	59	61	62	63	64	63	65.1
Moberly /	Maximum...	80	80	81	85	89	91	93	94	97	99	87	87	91	94	95	82	98	101	98	87	90	89	97	93	75	88	91	79	89	91	90	89.7
	Minimum ...	60	55	55	68	60	68	68	72	75	71	70	61	60	64	66	73	73	75	73	68	63	61	65	69	64	60	64	67	65	65	67	66.0
Oregon	Maximum...	82	81	84	86	90	90	90	90	91	93	89	88	90	95	93	86	94	97	91	87	91	92	93	88	80	89	85	82	91	94	95	89.3
	Minimum ...	61	60	61	63	65	69	72	70	72	75	62	63	64	69	70	68	74	77	72	61	65	66	69	62	62	61	68	69	66	68	69	66.9
St. Charles /	Maximum...	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
	Minimum ...	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
St. Joseph	Maximum...	80	83	84	87	91	91	90	91	94	93	86	88	90	95	94	83	99	101	86	89	90	93	94	91	76	90	83	84	91	94	94	89.5
	Minimum ...	63	59	64	65	65	73	74	70	74	74	68	62	66	72	73	72	78	81	73	66	68	65	72	65	65	62	71	70	68	68	68	68.8
Trenton	Maximum...	81	83	82	86	92	93	91	92	93	95	87	88	91	95	92	87	97	99	95	88	90	92	99	89	78	87	80	78	90	92	90	89.4
	Minimum ...	63	57	60	59	64	68	73	70	71	70	66	61	61	65	70	70	72	74	75	66	64	62	66	65	62	59	65	67	68	69	68	66.1
Unionville /	Maximum...	76	80	81	86	90	92	90	93	94	94	84	89	90	95	81	79	94	95	84	85	84	89	92	80	74	83	79	84	91	90	89	86.7
	Minimum ...	60	53	57	54	61	64	70	68	68	74	64	60	57	60	69	68	67	73	72	63	62	57	63	61	57	55	61	62	66	65	64	63.1
Warrenton	Maximum...	86	82	83	86	90	90	96	97	97	98	91	87	96	95	96	89	95	102	102	85	92	89	99	98	87	85	84	84	83	93	90	91.2
	Minimum ...	67	51	49	48	56	64	65	69	73	72	77	55	58	58	67	68	74	73	74	67	59	57	64	69	66	59	68	64	62	62	63	63.8
Keokuk, Iowa	Maximum...	79	81	83	86	92	94	95	95	94	99	86	87	92	92	80	76	90	100	90	86	86	87	97	84	73	80	74	87	90	91	88	87.5
	Minimum ...	66	61	62	63	64	73	73	73	78	79	71	66	67	72	68	68	73	78	77	71	67	63	69	66	58	61	66	68	69	70	66	68.6
Southwestern Division																																	
Clinton	Maximum...	85	82	86	91	95	95	94	98	99	101	87	89	92	95	97	95	99	102	103	90	95	100	105	105	94	100	80	86	91	93	96	94.2
	Minimum ...	65	59	55	56	63	66	67	68	71	73	61	60	61	66	68	75	76	71	71	67	64	64	63	69	68	66	69	69	65	66	67	66.1
Eldon	Maximum...	84	80	83	86	90	91	92	95	96	96	90	87	89	94	95	90	96	99	101	93	94	93	103	103	91	92	86	76	87	89	91	91.4
	Minimum ...	65	56	56	55	62	66	67	71	74	72	68	62	63	67	68	73	76	73	73	70	64	64	65	73	70	64	65	66	64	65	69	66.6
Harrisonville /	Maximum...	82	80	83	85	91	93	93	95	98	99	83	88	92	93	97	96	100	102	99	88	93	95	101	101	88	92	78	85	88	93	95	91.8
	Minimum ...	65	56	58	60	64	69	70	70	73	73	68	61	63	67	72	73	74	72	73	65	63	66	65	69	64	61	64	66	63	64	67	66.4
Jefferson City	Maximum...	85	83	84	88	92	93	95	98	99	100	93	90	92	96	99	95	100	102	103	94	95	95	105	104	93	91	83	78	89	91	94	93.5
	Minimum ...	64	56	50	49	55	62	63	67	73	69	68	55	59	59	65	73	78	74	69	69	59	59	61	70	69	63	64	66	63	65	65	63.9
Joplin	Maximum...	84	85	86	87	92	93	94	95	96	94	86	90	93	96	98	95	97	98	102	88	93	100	100	102	101	96	89	92	88	90	95	93.4
	Minimum ...	68	65	63	63	71	71	73	77	78	78	74	68	70	73	76	80	80	79	79	75	66	73	77	78	78	78	78	75	73	72	73	73.6
Lamar /	Maximum...	83	80	85	88	90	92	94	95	96	98	85	87	90	93	96	97	100	99	100	87	92	100	101	104	96	96	80	90	86	90	94	92.4
	Minimum ...	64	60	58	58	58	67	68	71	73	73	68	64	65	68	73	74	76	74	72	72	61	63	65	69	69	69	72	75	67	67	66	67.7
Lebanon /	Maximum...	84	82	87	90	93	93	95	96	97	98	87	92	95	96	101	96	98	100	103	86	93	97	103	104	96	98	81	84	90	90	92	93.5
	Minimum ...	61	64	59	52	60	64	67	68	75	72	71	57	60	65	67	71	75	72	71	71	59	59	65	72	70	67	69	63	64	64	66	65.8
Lexington /	Maximum...	85	87	89	92	96	98	93	99	100	102	92	94	96	97	101	96	102	104	99	91	97	98	104	100	87	94	85	84	93	97	97	95.1
	Minimum ...	65	58	58	59	65	74	72	73	74	78	72	63	67	65	72	74	74	78	83	67	67	65	67	69	64	62	64	70	67	68	68	68.5
Marshall	Maximum...	81	80	82	92	92	95	92	94	99	101	99	88	91	101	99	94	99	101	100	94	90	90	101	98	91	88	86	79	85	89	89	92.3
	Minimum ...	65	56	56	57	57	68	69	70	75	78	69	63	64	80	67	72	76	76	76	67	63	66	72	66	65	61	64	69	65	67	68	67.3
Mountain Grove	Maximum...	83	83	83	87	87	89	95	98	96	96	92	92	92	92	96	96	98	99	101	90	94	95	103	104	102	95	88	79	85	85	92	92.5
	Minimum ...	63	61	56	56	62	63	66	70	73	71	71	61	65	65	69	71	72	74	72	70	60	61	67	70	72	68	66	62	67	66	64	66.3
Neosho	Maximum...	86	85	86	87	91	95	94	96	95	95	93	91	92	96	98	95	102	98	101	97	92	97	99	101	99	97	93	91	89	89	94	94.0
	Minimum ...	63	60	53	52	62	63	64	68	74	70	71	57	61	64	68	72	73	72	77	73	56	60	65	66	65	71	74	74	67	66	65	66.0
Nevada	Maximum...	87	88	92	94	98	97	99	101	101	103	94	92	97	99	104	101	103	105	107	99	95	101	106	107	99	98	88	92	90	95	98	97.7
	Minimum ...	65	60	56	58	64	66	67	72	77	74	69	63	61	66	71	79	80	74	73	70	61	65	68	68	67	70	70	72	67	67	66	67.9
Sedalia	Maximum...	84	82	86	89	94	94	94	95	99	100	98	87	93	95	98	94	98	101	103	98	93	97	103	102	98	93	90	82	90	92	93	94.0
	Minimum ...	65	55	60	58	66	70	69	73	76	75	66	60	65	61	72	74	77	74	75	69	63	63	68	73	67	64	65	69	66	66	68	67.5
Springfield . 4 mi. NW	Maximum...	81	80	84	86	89	90	93	92	93	95	83	87	90	93	95	95	96	98	101	86	91	97	102	104	97	97	77	81	83	86	92	90.8
	Minimum ...	64	62	57	58	66	68	69	69	72	71	67	62	65	65	72	73	74	72	71	68	61	63	68	67	70	71	65	68	68	66	67	67.1
Warrensburg	Maximum...	84	82	87	91	94	94	93	98	101	102	97	89	92	95	96	95	99	102	100	97	91	95	100	101	99	95	94	86	90	92	94	94.4
	Minimum ...	66	59	58	59	67	68	72	72	75	76	67	65	65	70	73	76	77	76	77	67	66	67	70	72	67	63	66	70	66	69	70	68.7
Southeastern Division																																	
Arcadia /	Maximum...	86	84	85	88	89	88	90	94	97	90	86	85	85	85	82	93	88	97	84	81	85	86	83	103	87	87	85	84	84	86	85	87.5
	Minimum ...	67	59	53	54	54	60	65	65	69	70	71	59	55	54	55	61	64	72	73	71	68	61	59	59	73	64	63	63	60	59	64	62.7
Birch Tree .. ½ mile E	Maximum...	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
	Minimum ...	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
Caruthersville	Maximum...	87	84	83	86	82	88	86	89	93	93	92	86	86	89	90	91	92	94	91	90	84	87	90	92	92	87	83	82	85	86	89	88.0
	Minimum ...	69	69	69	68	71	71	72	72	72	72	72	71	68	68	70	73	75	78	72	74	71	70	70	72	73	72	68	69	69	69	69	70.9
Crystal City	Maximum...	88	88	87	91	91	92	93	99	100	99	91	91	94	96	96	95	93	100	102	90	92	92	99	102	100	88	87	90	95	92	95	93.8
	Minimum ...	67	60	60	55	61	64	67	70	73	77	71	58	56	63	65	70	77	77	73	71	64	65	62	75	70	60	62	63	62	64	65	66.0
Doniphan	Maximum...	94	90	84	91	89	92	96	101	102	100	96	95	93	96	101	98	102	105	102	100	92	95	99	99	99	91	85	82	88	91	95	94.9
	Minimum ...	67	63	60	59	63	70	63	71	71	71	69	67	65	57	61	66	74	70	72	70	70	62	64	69	70	70	64	63	65	66	64	66.3
Farmington	Maximum...	85	83	85	88	88	91	93	95	95	95	90	86	88	93	95	95	93	98	100	84	90	90	99	103	89	98	85	88	92	89	92	91.5
	Minimum ...	66	58	54	54	62	64	66	69	70	70	69	62	55	55	62	64	72	74	72	69	64	62	59	70	69	58	60	60	60	60	61	63.5
Jackson	Maximum...	90	87	86	92	88	92	92	94	97	97	91	90	89	93	96	95	95	100	99	88	91	91	94	97	91	84	83	88	91	92	94	91.8
	Minimum ...	68	60	59	59	66	71	69	69	72	70	70	69	59	58	64	68	75	76	73	70	70	66	63	71	74	63	58	64	63	66	65	66.7
Poplar Bluff	Maximum...	90	85	82	92	89	92	92	95	94	95	95	93	93	92	96	97	96	98	98	95	93	94	95	95	94	90	83	82	89	93	93	92.3
	Minimum ...	68	65	63	64	68	72	70	70	72	71	70	69	64	59	62	68	75	72	72	71	70	65	65	69	73	68	65	64	64	66	64	67.7
Rolla /	Maximum...	84	82	85	88	90	90	96	96	98	98	88	88	92	96	96	94	99	102	103	90	93	93	103	104	92	90	79	80	90	91	91	92.3
	Minimum ...	63	59	58	57	61	63	67	71	72	71	72	63	61	62	65	69	76	75	74	70	68	62	63	71	72	62	60	62	62	63	65	65.8
St. Louis	Maximum...	86	83	86	90	90	92	94	98	98	97	86	88	89	93	90	90	86	99	98	[illegible]	[illegible]	87	95	95	85	81	88	92	91	90	[illegible]	90.1
	Minimum ...	70	64	63	64	71	69	74	76	77	76	75	69	69	72	73	72	74	78	76	71	71	71	72	77	67	64	66	70	71	72	70	71.1
Salem /	Maximum...	85	82	88	90	93	94	95	100	100	98	90	91	94	96	100	98	100	103	103	85	94	94	105	105	94	92	83	71	90	89	93	93.4
	Minimum ...	63	59	51	52	58	62	65	69	73	70	72	58	59	62	65	68	75	75	76	74	72	59	58	62	70	72	61	62	63	62	64	64.5
Sikeston /	Maximum...	89	86	86	89	85	91	88	95	98	94	91	88	88	91	93	93	95	98	96	96	89	90	92	94	93	88	85	87	91	90	92	91.0
	Minimum ...	69	62	63	62	69	72	72	71	74	70	71	67	65	63	67	70	75	77	73	73	71	66	66	76	74	66	60	65	67	67	67	68.6
Union ...... 1½ mi. SE	Maximum...	90	85	86	90	92	92	101	101	99	100	91	89	93	97	99	95	101	104	96	85	94	93	105	101	94	88	83	89	94	96	95	94.1
	Minimum ...	66	56	50	50	57	61	64	69	72	70	72	57	56	56	63	68	75	77	75	65	60	60	70	71	60	63	61	64	63	[illegible]	[illegible]	63.9
West Plains	Maximum...	86	83	85	89	88	89	93	98	99	98	91	91	91	96	99	97	100	101	96	85	89	94	97	100	99	92	78	76	85	86	90	91.6
	Minimum ...	63	55	56	57	63	65	65	69	70	69	70	63	60	59	65	67	70	72	70	71	65	60	63	66	70	70	66	62	66	68	64	65.1
Cairo, Ill.	Maximum...	84	87	81	86	82	90	90	91	94	94	90	88	87	90	93	93	94	97	94	90	89	91	91	97	92	87	82	88	92	92	[illegible]	89.6
	Minimum ...	71	64	65	65	71	73	74	74	75	74	73	71	68	68	70	72	77	79	75	72	72	72	69	75	74	67	63	68	71	70	70	71.0

/ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs. ^{a}, ^{b}, ^{c}, etc., number of days missing, for example, ^{b} indicates two days missing. Italics data interpolated. § Partly interpolated.


MISSOURI
SCALE OF MILES
10 5 0 10 20 30 40 50
LEGEND
● Section Center.
● Weather Bureau Office.
○ Substation (Temperature and Precipitation).
□ Substation (Precipitation).
△ Substation (Evaporation, Temperature, and Precipitation.)
NOTE.—Dash (—) above station symbol indicates availability of hourly temperature data; below symbol, autographic precipitation records.
C.P.J. 5-11-44

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CLIMATOLOGICAL DATA

MISSOURI SECTION

H. F. WAHLGREN
ST. LOUIS, MO.

VOL. L — AUGUST 1946 — No. 8

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GENERAL SUMMARY

Locally heavy to excessive rainfall, at some stations unprecedented, was the outstanding characteristic of August 1946. Paradoxically, however, severe drought continued to grip several extreme southwestern counties of the State, while several others in the west-central, central, and east-central sections received too much rain during the month. For the State, as a whole, however, the cool, wet month was highly favorable for crop growth and development, and a record yield of soybeans and near-record yield of corn was indicated at the close of the month.

It was the coolest August since 1927 and the tenth coolest of its name since State-wide records began in 1888. Each of the three divisions of the State averaged cooler than their respective normals, although some individual stations had above-normal averages for the month, these being mostly in the Southwestern Division. The average for the latter division was 76.0°, or 2.3° and 3.0°, respectively, higher than the average for the Northern and Southeastern divisions. Hot weather prevailed over most of the southwest and west-central portions of the State during most of the first half of August, and afternoon temperatures reached 100°, or higher, on several days, at a number of stations, while the remainder of the State enjoyed comparatively mild temperatures. The last decade, as a rule, averaged cooler than normal, particularly the last four days, which were the coolest of the month, and it was during that interim the minimum temperatures for the month occurred; lowest readings were in the 40's and 50's. The extreme low this month, 37° at Tarkio on the 29th, equalled the all-time low record for August, the only other occurrence being in 1915. The highest temperature this month, 111°, was 5° under the record-high for August. Maximum temperatures of 100°, or higher, and 90°, or higher, occurred on an average of 1 day and 10 days, respectively, for the State as a whole; in the Southwestern Division the averages were 3 and 15 days, respectively.

Precipitation was very irregularly distributed during the month, ranging from a total of 20.45 inches at St. Louis (City Office) to only 0.83 inch at Ozark Beach. The average for the Northern Division was 4.67 inches, or 0.90 inch more than normal; the Southwestern Division 5.63 inches, +1.67; the Southeastern Division 6.61 inches, +2.79; for the State 5.64 inches, +1.79. These averages are not unusual and were exceeded in each instance in 1944, except for the Southeastern Division, where the current month was the wettest August since 1915 and the third-wettest of that name in the past 59 years. The outstanding feature of this month's precipitation was the unusually heavy to excessive local rains, which fell over a large area extending across the central and south-central portions of the State and extending into western Illinois, from the 13th to 16th, resulting in the drowning of three persons, heavy property damage, and enormous soil erosion damage, the amount of which will never be known. In St. Louis, where the heaviest rainfall was concentrated, 8.78 inches fell in a 24-hour period and 13.57 inches in a 48-hour period on the 14-16th, thus estab-

(Continued on page 59)

PRESSURE, WIND, HUMIDITY, AND SUNSHINE

Stations	Sea-level pressure, extremes-inches				Wind				Relative humidity				Percentage of sunshine	Degree days
	Highest	Date	Lowest	Date	Average hourly velocity	Maximum velocity ¶	Direction of maximum	Date	12:30 a. m.	6:30 a. m.	12:30 p. m.	6:30 p. m.		
Columbia	30.23*	29	29.71*	5	5.9	17	e.	8	86*	88*	46*	61*	64	8
K. C. Airport	30.29	29	29.66	7	8.7	32	sw.	3	72	78	49	52	62	6
St. Joseph	30.31*	29	29.66*	7	6.9	25	nw.	5	82*	86*	55*	58*	51	11
St. Louis	30.24*	23	29.78*	5	9.3	32	s.	8	85*	83	61	67*	52	4
Springfield	30.23	30	29.73	5	9.9	37	nw.	17	81	88	58	62	71	12
Cairo, Ill.	30.21	23	29.78	9	7.0	33	nw.	5	..	90	64	..	67	2
.....	.....	..	.....	..	....	..	......	..	..	..	..	..	..	....

* Data for Airport station. ¶ For 5-minute period.

COMPARATIVE DATA FOR AUGUST

Year	Temperature			Precipitation					Number of days			
	Average for State	Highest	Lowest	Average for State	Average, Northern Division	Average, Southwestern Division	Average, Southeastern Division	Snowfall, Average for State	Precip. .01 inch or more	Clear	Partly cloudy	Cloudy
1888	74.0	110	45	7.03	5.95	7.84	7.30	0	11	..	..	..
1889	73.5	101	52	1.69	1.65	2.11	1.31	0	14	..	..	..
1890	73.3	106	47	5.13	4.25	7.21	3.93	0	9	..	..	..
1891	73.2	102	38	5.29	5.96	5.11	4.78	0	8	..	..	..
1892	74.3	102	44	2.65	2.24	2.63	3.08	0	6	17	8	6
1893	72.8	100	40	1.99	2.55	1.89	1.53	0	4	18	10	3
1894	77.0	111	39	1.64	1.00	1.59	2.33	0	5	14	16	1
1895	75.3	104	46	4.02	5.45	3.51	3.09	0	8	15	11	5
1896	76.6	108	41	3.13	3.32	3.25	2.82	0	6	17	10	4
1897	74.1	108	41	2.37	2.48	2.23	2.39	0	6	19	9	3
1898	75.8	103	44	3.13	2.93	2.88	3.57	0	5	17	10	4
1899	78.8	107	49	3.13	4.19	2.76	2.45	0	7	18	10	3
1900	80.3	105	52	3.55	2.99	4.79	2.87	0	6	19	9	3
1901	78.4	109	47	2.05	1.12	2.74	2.29	0	5	19	9	3
1902	75.0	103	47	6.06	5.66	6.79	5.74	0	10	14	11	6
1903	74.5	102	43	5.00	6.54	5.01	3.44	0	10	16	11	4
1904	73.7	100	43	5.40	5.61	5.84	4.76	0	8	16	10	5
1905	76.4	99	48	4.68	4.19	5.90	3.94	0	8	19	7	5
1906	76.6	101	40	4.70	3.99	5.10	5.01	0	11	14	10	7
1907	77.3	109	47	3.89	3.92	3.90	3.85	0	9	17	8	6
1908	76.4	102	46	3.46	3.63	3.61	3.14	0	8	17	9	5
1909	79.5	110	40	0.60	0.31	0.67	0.81	0	2	24	6	1
1910	74.7	103	40	2.92	2.63	3.56	2.57	0	6	15	9	7
1911	75.4	109	41	4.33	2.81	4.97	5.21	0	7	15	8	8
1912	76.2	104	41	4.04	4.77	3.42	3.93	0	9	17	8	6
1913	82.8	110	41	1.09	1.24	0.67	1.37	0	3	22	7	2
1914	78.0	106	49	4.25	3.73	4.53	4.48	0	9	15	9	7
1915	69.8	98	37	8.19	4.99	7.57	12.02	0	12	12	9	10
1916	79.2	107	41	4.09	5.39	2.55	4.33	0	7	19	7	5
1917	73.3	104	38	4.69	3.13	5.04	5.89	0	9	16	8	7
1918	81.8	111	45	3.57	3.22	2.91	4.59	0	8	17	9	5
1919	75.7	106	44	4.33	4.41	4.47	4.12	0	8	17	9	5
1920	73.1	102	43	4.69	3.56	5.94	4.56	0	9	15	8	8
1921	76.8	109	48	5.39	5.16	6.42	4.60	0	9	14	10	7
1922	77.5	107	46	2.44	2.68	1.67	2.97	0	6	18	8	5
1923	77.3	108	42	3.81	5.47	1.87	4.08	0	8	16	9	6
1924	77.2	106	48	4.11	3.66	4.50	4.18	0	7	19	8	4
1925	76.5	107	45	3.34	5.31	2.60	2.10	0	6	19	8	4
1926	77.5	106	50	5.65	4.03	6.39	6.53	0	10	15	9	7
1927	71.1	97	39	5.09	4 19	7.04	4.04	0	9	14	10	7
1928	76.4	99	45	5.48	4.37	6.75	5.33	0	9	15	10	6
1929	76.0	105	43	2.58	1.84	2.21	3.69	0	6	18	9	4
1930	78.5	114	47	1.99	2.39	1.87	1.70	0	6	16	10	5
1931	74.9	106	44	4.97	4.03	5.66	5.21	0	9	15	9	7
1932	77.2	106	46	5.70	7.82	3.86	5.42	0	9	18	9	4
1933	75.4	103	48	3.82	4.32	3.80	3.33	0	9	13	10	8
1934	80.6	115	41	4.01	3.36	2.83	5.83	0	9	14	11	6
1935	77.7	110	45	2.20	1.60	2.73	2.26	0	6	17	9	5
1936	84.6	116	43	0.84	0.90	0.91	0.72	0	4	20	8	3
1937	80.5	105	51	2.05	2.50	2.00	1.64	0	5	17	11	3
1938	81.1	108	53	2.62	4.62	1.78	1.47	0	6	20	8	3
1939	75.4	106	45	4.80	6.30	3.76	4.34	0	9	15	11	5
1940	75.6	107	45	5.78	5.47	7.21	4.67	0	12	10	12	9
1941	79.2	106	49	3.15	2.37	3.53	3.56	0	8	15	11	5
1942	75.1	106	41	4.24	3.98	3.68	5.05	0	9	14	10	7
1943	79.8	110	44	2.46	3.00	1.92	2.47	0	6	16	11	4
1944	75.9	107	41	6.09	6.84	8.02	3.40	0	10	12	11	8
1945	76.8	103	45	2.08	1.85	1.93	2.45	0	5	18	9	4
1946	74.0	111	37	5.64	4.67	5.63	6.61	0	9	13	9	9
....	....	...	..	....	....	....	....	.	..	..	..	..
....	....	...	..	....	....	....	....	.	..	..	..	..
Period	**76.5**	**116**	**37**	**3.85**	**3.77**	**3.96**	**3.82**	**0**	**8**	**17**	**9**	**5**

Climatological Data for August 1946

Stations	Counties	Elevation, feet	Temperature, in degrees Fahr.							Precipitation, in inches						Number of days				Prevailing direction of wind	Observers
			Length of record, years	Mean	Departure from the normal	Highest	Date	Lowest	Date	Length of record, years	Total	Departure from the normal	Greatest in 24 hours [4]	Date	Total snowfall, unmelted	With precip., .01 inch or more	Clear	Partly cloudy	Cloudy		
Northern Division																					
Albany	Gentry	930	5	71.1	......	98	2	40	29	17	2.45	−1.15	0.74	8	0	10	11	13	7	n.	Curtis E. Grace
Amity	DeKalb	1,007	0	73.8	......	99	2†	42	29	11	0.93	−3.27	0.36	7–8	0	8	12	9	10	se.	O. M. Colhour
Bethany	Harrison	916	51	72.0	− 3.0	100	2	42	29	53	3.98	+0.16	1.90	14	0	6	17	2	12	se.	B. A. McGregor
Brookfield	Linn	767	5	73.3	......	100	17	47	29	5	3.88	......	2.05	21–22	0	9	17	11	3	e.	G. F. Breen
Brunswick	Chariton	652	65	73.3	− 0.9	97	17	49	30	67	3.86	−0.08	1.53	13–14	0	10	13	4	14	se.	O. K. Benecke
Canton, Lock & Dam 20	Lewis	488	8	71.6	......	92	17	52	30	16	5.28	+2.12	1.24	5	0	13	10	11	10	se.	Lockmaster
Chillicothe	Livingston	779	37	72.4	− 3.1	97	17	46	29	40	1.63	−2.33	0.52	14	0	8	29	0	2	ne.	Wm. J. Olenhouse
Chillicothe 2 mi ESE(C)	Livingston	771	0	71.9	......	98	17	45	30	0	1.53	......	0.38	7–8	0	13	7	14	10	se.	Civil Areo. Authority
Columbia	Boone	740	56	74.0	− 2.3	96	17	50	30	56	5.72	+2.12	2.45	13–14	0	11	12	11	8	e.	U. S. Weather Bureau
Conception	Nodaway	1,108	57	73.3	− 1.4	100	2	42	29	62	2.12	−1.52	0.89	7	0	11	5	19	7	se.	Fr. Adelhelm Hess
Edgerton	Platte	856	26	74.8	− 0.3	101	2	44	29	43	2.50	−1.54	....	..	0	6	17	7	7	s	W. A. Foster
Elsberry	Lincoln	449	15	70.6	− 5.9	93	17	45	30	15	10.34	+7.08	3.85	15–16	0	14	11	9	11	n.	Soil Conservation Service
Fayette	Howard	760	66	73.2	− 2.7	94	17	46	29	63	6.33	+2.77	3.40	13–14	0	10	15	7	9	se.	Irvin E. Schnell
Fulton	Callaway	818	58	72.4	− 4.0	95	1†	47	30	54	7.10	+3.45	1.21	15	0	13	20	6	5	nw.	Frank E. Hillgartner
Grant City	Worth	1,134	42	72.4	− 2.5	101	2	42	29	54	3.58	−0.36	1.25	7	0	11	12	11	8	e.	J. Homer Korn
Hannibal	Marion	759	54	70.9	− 4.1	92	1†	50	30	62	7.30	+3.96	2.26	15–16	0	14	8	9	14	se.	Hannibal Water Dept.
Kansas City Airport	Jackson	741	57	77.0	+ 0.4	102	16	49	29	57	3.70	+0.16	2.73	12–13	0	9	6	15	10	e.	U. S. Weather Bureau
Kansas City Univ.	Jackson	908	8	77.0	......	106	8	50	29	8	2.71	......	2.14	13	0	5	14	8	9	se.	University of Kansas City
Kidder	Caldwell	1,020	54	72.4	− 3.0	101	2	40	29	58	0.85	−3.11	0.31	5	0	10	11	7	13	se.	Mrs. Geraldine Terry
Kirksville	Adair	969	57	70.9	− 3.1	94	1†	46	29	64	7.15	+3.03	2.34	23–24	0	13	16	5	10	n.	Dr. Willis J. Bray
Lawson	Ray	1,070	8	76.1	......	100	2†	46	29	8	1.89	−3.08	0.68	15	0	4	12	14	5	s.	Elmer E. Lamb
Louisiana	Pike	469	52	71.8	− 3.1	94	17	46	30	65	6.84	+2.30	2.20	5	0	15	12	7	12	n.	Stark Bro's Nurseries
Macon	Macon	875	47	72.3	− 3.8	97	1	47	29	53	3.71	−0.10	1.29	23–24	0	16	13	5	13	nw.	John W. Atwell
Maryville	Nodaway	1,169	56	72.4	− 1.4	99	2	42	29	52	3.74	−0.24	2.50	7	0	11	9	11	11	e.	R. B. Montomery
Memphis	Scotland	787	7	69.8	......	95	17	44	29	16	3.87	−0.10	0.84	5	0	15	14	3	14	se.	John W. Alexander
Mexico	Audrain	800	57	71.6	− 4.4	95	5	47	30	68	4.10	+0.25	0.93	14–15	0	14	10	10	11	se.	Darrence W. Stuart
Moberly .....3½ mi. NE	Randolph	860	9	72.2	− 3.5	95	1	46	30	9	3.79	−0.02	1.29	13	0	12	15	8	8	se.	F. W. Bell
New Florence. 1 mi SE	Montgomery	885	3	71.4	......	94	1	49	30	4	4.77	......	1.22	14	0	12	4	16	11	se.	U. S. Weather Bureau
Oregon	Holt	1,048	90	73.7	− 1.5	100	2	44	29	90	2.78	−1.02	0.92	22–23	0	11	13	11	7	n.	James M. Curry
Polo	Caldwell	1,000	0	73.7	......	100	2†	43	28	0	2.03	......	1.29	13	0	6	18	6	7	se.	F. B. Albright
St. Charles	St. Charles	520	58	....	......	..	..	..	..	68	....	......	....	..	.	..	..	..	..	......	....
St. Joseph	Buchanan	957	36	75.0	− 1.5	100	2	47	29	74	1.44	−2.39	0.56	13–14	0	10	9	14	8	e.	U. S. Weather Bureau
Salisbury	Chariton	723	0	73.2	......	94	1†	48	30	0	3.78	......	1.64	14	0	8	14	11	6	s.	David H. Robertson
Saverton, Lock No. 22.	Ralls	472	8	71.8	......	94	17	50	30	8	8.41	......	4.10	15–16	0	16	13	11	7	w.	Lockmaster
Shelbina	Shelby	779	5	72.0	......	97	17	47	30	53	4.08	+0.36	0.96	23–24	0	13	14	9	8	se.	Guyman Hatcher
Steffenville	Lewis	650	48	71.5	− 5.0	98	1	48	29†	53	6.40	+2.36	1.59	1–2	0	11	12	9	10	se.	Mrs. Fannie V. Gross
Tarkio	Atchison	916	43	71.6	− 3.6	99	2	37	29	52	2.25	−1.65	1.20	7	0	8	7	12	12	se.	C. A. A. Station
Trenton	Grundy	822	50	73.8	− 1.4	99	17	45	29	51	1.98	−1.90	0.63	8	0	10	10	17	4	n.	W. H. Estes
Unionville	Putnam	1,062	53	69.5	− 5.3	97	17	43	29	53	6.47	+2.19	1.91	23–24	0	15	15	8	8	s.	Mrs. Dora A. Wilson
Vandalia	Audrain	766	2	72.0	......	101	18	40	30	7	4.31	......	1.29	5	0	8	18	4	9	s.	Mrs. Naomi K. Stoutz
Warrenton	Warren	816	64	71.7	− 4.8	96	1	44	30	56	7.02	+3.35	1.43	3	0	16	16	9	6	se.	W. T. Zimmerman
Keokuk, Iowa	Lee, Ia.	574	74	70.9	− 4.1	90	1†	51	29	74	4.63	+1.43	1.49	5	0	15	10	12	9	se.	U. S. Weather Bureau
Division means	**and extremes**	....	..	**72.6**	**− 2.9**	**106**	**8**	**37**	**29**	..	**4.67**	**+0.90**	**5.42**	**15–16**	**0**	**11**	**13**	**9**	**9**	**se.**	
Southwestern Division																					
Anderson ...1½ mi sw	McDonald	1,000	42	77.0	− 0.7	103	8	46	30†	47	1.08	−3.04	0.48	26–27	0	4	23	1	7	sw.	Samuel G. Chamberlain
Appleton City	St. Clair	813	51	76.2	− 1.6	110	8	50	30	54	10.14	+6.18	....	..	0	8	16	6	9	ne.	Rolla Brown
Bolivar	Polk	1,071	43	76.7	− 0.2	105	8	51	30	51	9.71	+5.85	4.40	13–14	0	10	14	8	9	sw.	Southwest Baptist College
Boonville	Cooper	650	8	73.2	......	95	8	52	29†	69	4.91	+0.36	1.94	13–14	0	11	8	15	8	e.	Boonville Water Dept.
Butler	Bates	865	0	76.1	......	110	8	49	30	5	7.17	......	5.98	13–14	0	4	12	11	8	n.	F. S. Wolf
Camdenton	Pulaski	940	0	76.1	......	107	8	53	30†	0	7.60	......	2.20	13–14	0	7	20	6	5	s.	L. C. Scott
Carthage	Jasper	962	12	80.2	......	107	8	49	30	22	2.85	......	1.51	23–24	0	5	11	16	4	sw.	Carthage W. and E. Plant
Clinton	Henry	786	53	76.2	− 1.4	111	8	51	30†	59	8.43	+4.78	3.73	13	0	7	11	12	8	s.	U. S. Weather Bureau
Eldon	Miller	934	51	73.6	− 2.8	98	8	50	30	47	9.01	+5.35	3.68	12–13	0	10	10	11	10	se.	Ira M. Wilson
Harrisonville	Cass	904	68	74.6	− 1.3	110	8	48	29	71	6.07	+1.89	3.92	12–13	0	8	14	7	10	sc.	Jeffrey B. Patterson
Jefferson City	Cole	557	56	73.7	− 3.0	96	1†	48	30	64	12.37	+8.54	4.77	14	0	10	10	16	5	e.	K W. O. S. Radio Farm
Joplin	Jasper	1,008	24	80.4	+ 3.1	102	17	56	30	41	3.00	−0.97	1.11	24	0	10	9	13	9	sw.	Empire Dist. Electric Co.
Lakeside	Miller	595	15	74.2	− 4.9	106	8	48	29	15	15.96	¶12.79	8.20	13–14	0	8	8	14	9	se.	W. S. Frame
Lamar	Barton	980	58	76.8	− 0.9	104	8†	50	30†	65	2.90	−1.39	1.54	23–24	0	8	20	5	6	se.	Mrs. Marie Mann
Lebanon	Laclede	1,265	58	73.0	− 3.1	99	8	45	30	59	8.77	+4.28	3.63	13–14	0	8	10	5	16	sw.	Mrs. Rosa E. Montelius
Lexington	Lafayette	688	61	77.2	+ 1.0	104	9	50	29	62	3.70	+0.18	2.06	12–13	0	6	22	3	6	s.	Tilton Davis
Lockwood	Dade	1,078	40	78.4	+ 1.2	105	8	50	30	50	3.79	−0.91	2.00	23–24	0	9	14	12	5	sw.	Hubert A. Nieman
Marshall	Saline	779	59	74.4	− 1.6	99	2	49	29	56	5.77	+1.87	2.00	13–14	0	6	19	7	5	s.	Thomas A. Reid
Mountain Grove	Wright	1,465	45	71.1	− 1.4	100	9	46	30	49	4.04	−0.30	2.65	13–14	0	9	14	10	7	se.	Mo. Fruit Exp. Station
Mount Vernon	Lawrence	1,174	34	77.8	+ 1.1	102	17	46	30	46	1.80	−2.68	0.79	24	0	6	9	19	3	sw.	James C. Williamson
Neosho	Newton	1,011	59	78.8	+ 1.7	103	8	47	30	63	2.82	−1.55	2.21	25–26	0	7	16	7	8	sw.	U.S Fisheries Station
Nevada	Vernon	862	53	79.1	+ 2.0	109	8	48	30	54	3.40	−0.37	1.96	13	0	8	21	3	7	sw.	Henry Kraft
Ozark Beach	Taney	700	6	77.9	......	105	9	48	31	21	0.83	−3.50	0.28	25–26	0	7	15	8	8	sw.	Empire District Elec. Co.
Sedalia	Pettis	910	33	75.9	− 0.6	106	8	50	30	35	8.03	+2.85	3.53	12–13	0	10	18	5	8	se.	Dr. J. E. Cannaday
Seligman	Barry	1,542	45	77.7	+ 1.5	101	8†	46	30	43	1.01	−2.99	0.60	25–26	0	3	21	6	4	s.	Floyd E. Fawver
Seymour. 3½ miles NE	Webster	1,642	40	72.4	− 2.6	98	8	43	30	40	3.80	−0.44	1.76	12–13	0	11	19	5	7	se.	Ira H. Hailey
Springfield... 4 mi. NW	Greene	1,301	58	75.3	+ 0.3	102	8	48	30	58	5.79	+1.70	2.62	13	0	10	9	9	13	s.	U. S. Weather Bureau
Sweet Springs	Saline	700	5	70.1	......	106	8	48	30	5	4.47	......	1.56	12–13	0	8	12	13	6	s.	H F. Nelson
Warrensburg	Johnson	878	59	77.4^{b}	+ 0.3	105^{b}	8	52^{b}	29	66	7.05	+3.08	3.64	12–13	0	8	17^{b}	5^{b}	7^{b}	se.	Central Teachers College
Warsaw	Benton	687	45	77.4	− 0.2	111	8	51	30†	51	12.56	+7.94	5.60	12–13	0	7	13	12	6	sw.	Dora B. Johnson
Wasola	Ozark	1,294	5	75.2	......	101	17	49	30	6	2.00	......	1.22	9–10	0	7	13	12	6	e.	A. W. Pinckney
Waynesville	Pulaski	805	0	....	......	99^{o}	8	..	..	0	10.61§	......	4.70	13–14	0	7	..	..	..	......	Jesse H. Barlow
Division means	**and extremes**	.....	..	**76.0**	**− 0.6**	**111**	**8**	**43**	**30**	..	**5.63**	**+1.67**	**8.20**	**14–15**	**0**	**8**	**15**	**9**	**7**	**sw.**	
Southeastern Division																					
Advance.... ¼ mile W	Stoddard	354	9	73.0	− 4.3	97	9	44	31	9	4.71	+0.90	1.28	3	0	10	8	10	13	s.	U. S. Weather Bureau
Arcadia	Iron	926	65	70.2	− 4.1	97	9	43	31	68	4.89	+0.52	1.75	13–14	0	10	10	4	17	e.	Arcadia College
Birch Tree... ½ mile E	Shannon	1,000	51	....	......	..	..	..	..	52	....	......	....	..	0	..	..	..	..	......	R. C. Moger
Black.......9 miles NW	Iron	1,000	53	69.6^{e}	− 4.9	95^{e}	9	40^{e}	31	53	5.11	+0.87	2.10	14	0	7	13^{e}	7^{e}	6^{e}	sw.	M. L Volner
Campbell	Dunklin	314	20	75.9^{h}	− 1.3	98^{b}	9	47^{h}	31	20	3.80	−2.18	1.31	9–10	0	6	12^{f}	11^{f}	2^{f}	s.	Mrs Ruth Christian
Cape Girardeau	Cape Girardeau	347	1	75.2	......	93	9†	52	30	46	6.55	+2.65	2.58	3	0	9	8	12	11	ne.	Homer R. Bolen
Caruthersville	Pemiscot	265	50	75.4	− 4.9	95	9	53	29†	54	2.96	−0.73	1.56	9–10	0	7	21	3	7	e.	Victor T. Mallourc
Crystal City	Jefferson	420	12	73.5	− 4.7	96	1†	44	30†	12	4.99	+2.56	1.67	5	0	11	8	10	13	sw.	Richard K. Ragland
Doniphan	Ripley	344	42	76.2	− 1.4	100	9	43	31	42	4.23	−0.01	1.40	13–14	0	9	20	3	8	sw.	Boyce Lackey
Farmington	St. Francois	896	35	71.7	− 3.7	95	1†	43	31	49	7.76	+3.46	3.32	5–6	0	8	5	9	17	s.	F. M. Karsch
Greenville	Wayne	460	37	....	......	..	..	..	..	39	....	......	....	..	.	..	..	..	..	......	Beuford Shoemake
Jackson	Cape Girardeau	428	55	74.2	− 1.9	98	9	43	31	56	5.42	+1.34	1.84	3	0	10	10	16	5	s.	Danny Siebert
Koshkonong	Oregon	958	45	73.8	− 4.1	99	9†	42	30	46	1.88	−2.28	0.68	9	0	8	16	7	8	se.	Mrs Genevieve T. Smith
Licking...... 4 miles N	Texas	1,170	9	71.8	− 4.9	98	8	41	31	9	13.18	¶10.84	5.95	13–14	0	9	15	4	12	s.	Fern E. Austin
Marble Hill	Bollinger	532	51	74.1	− 2.9	100	9	42	31	53	7.04	+2.92	1.87	8–9	0	8	15	13	3	nw.	R. A. DeWitt

Continued on next page

Climatological Data for August 1946—Continued from preceding page

Stations	Counties	Elevation, feet	Temperature, in degrees, Fahr.							Precipitation, in inches						Number of days				Prevailing direction of wind	Observers
			Length of record, years	Mean	Departure from the normal	Highest	Date	Lowest	Date	Length of record, years	Total	Departure from the normal	Greatest in 24 hours [4]	Date	Total snowfall, unmelted	With precip., .01 inch or more	Clear	Partly cloudy	Cloudy		
Southeastern Division—	*Concluded*																				
Poplar Bluff	Butler	339	41	75.7	− 2.3	101	9	45	31	42	3.87	−0.70	1.07	5–6	0	9	16	5	10	ne.	Osmon M. Richardson
Rolla	Phelps	1,202	46	72.2	− 4.0	96	8	48	30	62	7.55	+3.11	3.00	12–13	0	8	8	17	6	w.	Rolla School of Mines
St. Louis:																					
City Office		465	109	73.6	− 3.9	94	17	56	30	109	20.45	¶17.46	8.78	15–16	0	13	6	9	16	s.	**Section Center**
St. Louis Airport	St. Louis	556	9	72.7	− 3.7	96	17	51	30	15	14.78	¶11.76	5.15	15–16	0	13	5	5	21	se.	U. S. Weather Bureau
St. Louis University	St. Louis City	578	34	73.4	− 4.4	95	17	53	30	34	19.06	¶15.12	7.65	15	0	13	12	13	6	se.	St. Louis University
Salem	Dent	1,206	42	72.0	− 3.9	96	17	46	30†	45	9.66	+5 09	5.27	13–14	0	8	10	16	5	s.	E. E. Martin
Sikeston	Scott	318	39	74.3	− 3.3	97	9	47	30†	49	3.34	−0.46	1.11	5–6	0	9	8	20	3	se.	Mrs. Lucy W. Humphreys
Union 1½ mi. SE	Franklin	520	8	73.2	......	99	1	45	30†	29	4.64	−0.06	0.97	5	0	14	11	11	9	n.	Cornelius Sieges
Vichy 2 mi. NW	Maries	1,125	10	72.8	......	96	8	51	30	11	7.25	......	2.70	12–13	0	9	4	12	15	se.	Civil Aero. Authority
Wappapello Dam	Butler	475	7	74.8	......	98	9	51	30†	7	3.99	......	1.51	13–14	0	9	19	5	7	s.	U. S. Engineer Office
Webster Groves	St. Louis	507	0	71.5	......	94	17	49	30†	1	15.13	......	4.87	15	0	12	15	9	7	se.	R. W. Lawrie
Weingarten	St. Genevieve	833	5	72.6	......	95	1†	46	30	6	4.93	......	2.58	3	0	5	5	22	4	s.	William J. Miller
West Plains	Howell	1,005	9	73.6	− 3.4	98	9	44	31	9	2.38	−0.35	1.26	9–10	0	6	10	8	13	ne.	U. S. Weather Bureau
Willow Springs 500 ft E	Howell	1,238	5	73.4	......	96	9	45	30†	39	3.91	−0.17	....	..	0	7	15	3	13	s.	Allen Frazee
Cairo, Ill.	Alexander, Ill.	314	74	75.3	− 3.5	98	9	53	30	75	5.25	+2.23	2.08	5–6	0	9	10	8	13	ne.	U. S. Weather Bureau
Division means	**and extremes**	.....	..	73.4	− 3.6	101	9	40	31	..	6.61	+2.79	8.78	15–16	0	9	11	10	10	s.	
State means	**and extremes**	.....	..	74.0	− 2.5	111	8	37	29	..	5.64	+1.79	8.78	15–16	0	9	13	9	9	se.	

The departures from normal temperature are computed from the averages of the entire period for stations having 10 or more years of record. Departures of precipitation for stations with 15 years or more of record are computed from a normal or "standard mean", adjusted to a uniform 35-year period; for stations of 10 to 14 years the means for the period of record are used. The normal may be found by adding the departures when minus (−) or subtracting when plus (+). Figures and letters following stations indicate distance in miles and direction of station from the city Post Office, unless otherwise indicated. T. Trace or 0.005 inch or less. [a], [b], [c], etc., number of days missing; for example, [b], indicates two days missing. Italics data interpolated. § Partly interpolated. † And other dates. ‡ Received too late to be included in means and summaries. [4] Best available used for stations not equipped with recorders. Post office address of: Altona is Adrian; Crane Mountain is Arcadia; East End is Goodland; Eastwood Lookout is Van Buren; Ellsinore Lookout is Mill Spring; Hailey is Cassville; High Lookout is Birch Tree; Macedonia Lookout is Doniphan; Perry is Center; Wilderness Lookout is Lampe. (C) Airport. ¶ Indicates plus.

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lishing a new all-time 109 year record for that station. A heavier 24-hour fall, however, occurred previously in the State when 12.25 inches fell at Grant City on July 10th, 1922. In the Southwestern and Northern divisions 24-hour amounts of 8.20 inches at Lakeside on the 14-15th and 5.42 inches at St. Charles on the 15-16th, respectively, were recorded. The monthly total of 20.45 inches at St. Louis City was the greatest monthly total for any month at that station, but for the whole State, atotal of 25.54 inches for May 1943, at Joplin, still stands unbroken as the greatest amount for any month. A number of stations had monthly totals in excess of 10 inches during this August, setting new records for those stations, but the total length of the record at most stations is relatively short, as compared to the St. Louis record. Several stations reported rain on as many as 15 or 16 days during the month, but the average for the State, as a whole, was only 9 days.

Despite the heavy to excessive precipitation, floods in the major streams of the State were not particularly serious, except in the Gasconade and Osage rivers, because stages were relatively low before the heavy rains occurred and also because the rains were local rather than general. However, rapid and strong rises did occur in both the Mississippi and in the lower Missouri rivers, with some minor overflowing of the latter at St. Charles and below. Flash floods in the smaller streams followed the torrential local rains from the 13th to the 16th and in towns and cities, particularly St. Louis and suburbs, sewer and drainage systems were overtaxed, resulting in serious flooding of streets, basements, and low areas. Two boys were drowned at St. Louis while swimming in a flooded street. A third person was drowned at Elsberry as a result of flood waters.

Damaging storms were not unusual, in either frequency or severity, during the month; details are tabulated elsewhere in this issue.

Corn and soybeans made good progress during the month, except in the dry southwest section where all crops suffered severely from drought and hot weather the first half. Some corn was also damaged by flood waters of the Osage and Gasconade rivers. At the closed of the month the bulk of the corn crop was far enough advanced to escape damage by frost occurring as early as the normal date. Some soybeans were cut for hay and lespedeza fields improved rapidly the latter half of the month, in most sections of the State, and a fair to good crop of hay was in prospect. Cotton made good growth and development the first half of the month, but was becoming rank and in need of cultivation and warmer and drier weather at the close. Much fall plowing was accomplished during the latter half of August, where fields were not too wet, and some small grains were sown for fall grazing. Pastures improved rapidly, following the fine rains during the middle of the month, and the cool weather and ample moisture were ideal for rapid growth. Threshing of small grains and the harvesting of a large peach crop was completed during the month. The drop of apples, in orchards located in the southwest part of the State, was heavy, due to the prolonged dry weather in that area.—M. R. W.

TEMPERATURE

The monthly mean for the State, 100 stations reporting, was 74.0°, or 2.5° below the 59-year August average. The highest monthly mean was 80.4° at Joplin, and the lowest was 69.5° at Unionville. The highest reported was 111° at Clinton and Warsaw, on the 8th, and the lowest was 37°, at Tarkio, on the 29th.

PRECIPITATION

The average for the State, 212 stations reporting, was 5.64 inches, or 1.79 inches more than the 59-year August average. The greatest monthly amount was 20.45 inches at St. Louis City, and the least was 0.83 inch at Ozark Beach. The greatest amount reported in 24 hours was 8.78 inches at St. Louis City, on the 15-16th. The average number of days with 0.01 inch, or more, was 9.

MISCELLANEOUS PHENOMENA

Auroras.—30th, 31st.

Floods.—In Gasconade River, at Jerome, 14th to 16th. In Meramec River, at Meramec Park (Sullivan), on 16th. In Mississippi River, at Louisiana, 2d to 6th, 14th, 16th, 21st,

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Daily Precipitation for August 1946

Stations	Drainage-basins	Day of month																															Total
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Northern Division																																	
Albany	Grand					.34		.03	.74					.02	.45		.45						.34	.02		.01			.05				2.45
Amity	do					.27		T.	.36			T.	.04	.11	T.	.01	T.	.04					.08	T.	T.				.02	T.			0.93
Auxvasse	Missouri		.10	.03	.05	.32		T.	.30	T.			.02	1.10	1.02	.49	.28	T.					1.04	.08	.53								5.36
Bethany	Grand					.30		T.	.87						1.90	T.	.30					T.	.26	.35	T.								3.98
Bowling Green[2]	Mississippi		.27	.35	.90		1.78		.31				.04	.17	.17	.18	1.42	.07						.26	.55	.07							6.54
Brookfield[2]	Grand					.13			.50						.38		.05	.10					2.05	.17	.30	.20							3.88
Browning.....3 mi. NE	do	T.	T.			.28		.02	1.19				T.		.71	T.	.03	.04				.05	1.01	.05	1.07				.07				4.52
Brunswick[2]	do			.12		T.			.20				T.	.27	1.53	T.	.25	.62					.07	.23	.17	.40							3.86
Canton, Lock No. 20[2]	Mississippi		.11	.68			1.24		.65				.05	T.	.14	T.	1.23	.10				T.	.18	.21	.42	.23	.04						5.28
Centralia[2]	do		.10	.21			.09		.49				.09	.43	1.41	.21	.26	.02					.16	.71	.76	.29							5.23
Chillicothe[2] (A)	Grand			.11					.31					T.	.52	T.	.01	.01					.29	.18	.20	T.							1.63
Chillicothe[2] (B)	do			.24		.09			.33					.05	.60		.09	.12					.08	.09	.07	.09							1.85
Chillicothe[3] 2mi ESE (C)	do			.03		.05		.03	.35				.02	.09	.26	T.	.02	.04				.03	.28	.10	.23				T.				1.53
Columbia[1, 5]	Missouri		.04	.09		.57		T.	.12	T.			.10	1.25	2.43	T.	.13		T.				.16	.05	.78				T.				5.72
Columbia[5] ..9 mi. WNW	do			.07		T.			.04	T.			.01	1.48	2.81		.10						.11	.08	.70								5.40
Conception	do		T.	.03		.25		T.	.89		.01	T.	.22	.09	.15	T.	.18	.05					.19	.06	T.								2.12
Edgerton	do			.17	.38								*	1.51		*	.44																2.50
Edina[2]	Mississippi		.34	.02			.88		.64				.14		.06	T.	.81	.10				.04	92	.30	.90	.33			.02				5.50
Elsberry S. C. S.[2]	do		.73	.39	.04		.81		.67				.12	.13	.13	3.13	3.85	.06					T.	.06	.20	.02							10.34
Fayette	Missouri		.15			.14			.30				T.	.97	3.40	.02	.30						.15	.10	.80	T.							6.33
Fulton[2]	do		1.04	.02	.25		.42		.10					1.06	.98	1.21	.12	.02						.50	.81	.57							7.10
Gallatin[2]	Grand			.25		.23			.28				.08	.04	.10		.34	.06					.13		.19								1.70
Grant City	do			.08		.83		.09	1.16			T.	T.	T.	.26	.02	.02					T.	.90	.02	.15				.05				3.58
Hannibal[1] (A)	Mississippi	T.	.72	.87		.82		.07	.92				.12	.01	.11	.55	1.71	.20				.06	.54	T.	.60				T.				7.30
Hannibal[2] (B)	do		.20	.94	.30		.96		.85				.06	.02	.10	.04	2.40	.26	T.				T.	.66	.52	.80				T.			8.11
Hermann[2]	Missouri		.60	.03			.90		.08				.08	.81	1.05	1.20	.11	.05						.38	.34	.35							5.98
Kahoka[2]	Mississippi		.20	.22			.72		.60	.25				.23	.10	.20		.70					.20		*	.60			T.				4.02
Kansas City Airport[1, 5]	Missouri		T.	.02		.01		T.	.01	T.		.04	1.29	1.55	T.	.62	.06	T.						.10	T	T.							3.70
Kansas City University	do			.02					T.				.41	2.14	T.	.12								T.	.02	T.							2.71
Kidder[2]	Grand			.01		.31	T.		.21				.01	.10	.09	.06	T							.04	.01				.01	T.			0.85
King City	Missouri					.33							.11		.13	.33	.05																0.95
Kirksville	Mississippi		.35	.11		1.25		.06	1.22	T.			T.	.01	.06	T.	.61	.03				.76	.32	T.	2.34				.03				7.15
LaBelle[2]	do		1.12	.56			.58		1.00				.10	T	.06	.08	.70	.30					.37	.85	.80	.16			.04				6.72
Lawson	Missouri			T.								T.	.63	.46	T.	.68	.12	T.															1.89
Linneus	Grand					.35	T.	.09	.28					T.	.29	T.							2.39	.18	.83				.03				4.44
Louisiana (A)	Mississippi		.44	.58	.23	2.20		.02	.90				.12	.16	.19	.06	1.32	.03				.02	.22		.35								6.84
Louisiana[2] (B)	do		.21	.62	.49		1.71		1.06				.12	.10	.19	.12	1.58	.08					.02	.23	.22	.13							6.88
Lucerne[2]	Grand					*.05*			1.20						*.40*		.16						.90		1.10	1.75							§5.56
Macon[2]	Chariton		.01	.04	.04		.31		.61				.01	.01	.21	.45	.13	.03				.36	.04	.17	.57	.72				T.			3.71
Madison[2]	Mississippi		.35				.68		.34					.05	.90	.60	.25					.31	.30		.45	.41							4.67
Martinsburg[2]	Missouri		.15	.06	.03		.81		.45		.02		.02	.44	.93	.59	.26	.03					*T.*	.52	.48	.21				T.			5.00
Maryville	do					.43		.03	2.47			.01	.03	.10	.32	.02	.14						.16	.03									3.74
Memphis[2]	Mississippi			.05		.36	.48		.44				.12	T.	.02	.09	.18	.27				.05	.51	.18	.72	.37			.03				3.87
Mexico[2]	do		.02	.03			.08		.30				.02	.32	.82	.93	.12	.14					.08	.49	.45	.30							4.10
Milan[2]	Grand					.46			1.46					.06		T	.65	.14				.15	.51	.04	1.30	1.13			.06				5 96
Moberly[2] ....3½ mi. NE	Mississippi			.02					.46				*	.09	1.29	.04	.22	.02					.43	.25	.54	.43							3.79
Monroe City	do		.49	.98		.36			.64				.09	.11	.33		.62					.09	.21		.62								4.54
New Florence[3, 5] 1 mi SE	Missouri		.19	.52		.51	T.	T.	.23	T.			.03	.90	1.22	T.	.16	.01	T.				.43	.01	.51								4.77
Oregon	do		.03	T.		.56		.04	.28				.27	.26	.03		.34	.05					.53	.39									2.78
Palmyra[2]	Mississippi																																....
Paris[2]	do		.07	.05			.65		.20					.23	.74	.44	.36	.10					.32	.16	.73	.19							4.24
Perry ....1 mile E	do		.60	.10		.35			.10				.02	.15	.60		.50						.22		.72								3.36
Philadelphia	do		1.10	T.	.30	.85			2.00				.16	.10	.30		2.50	T.				.16	*	.50	.70								8.67
Polo[2]	Missouri				T.			T.		T.		.03	.55	1.29	.07		.07						.02	T.				T.					2.03
St. Charles[2] (A)	do																																....
St. Charles[2] (B)	do		.16	1.04	.07		1.60	T.	.23	.12	T.			.50	.17	3.06	5.42	.67	T.					.14	.14	.16				.12			13.60
St. Joseph[1, 5]	do		T.	.01		.08		.52					.48	.26	.02	.04	.01						.01	T.					.01				1.44
Salisbury	Chariton			.06		T.		T.	.15	*T.*			T.	.09	1.64		.25						1.10	.14	.35								3.78
Saverton, Lock No. 22[2]	Mississippi		.24	.48	.13		1.03		.94				.09	.09	.08	.12	4.10	.20	.01				.03	.48	.28	.11							8.41
Shelbina	do		.33	.33				.03	.70				.03	.06	.58		.40	.07				.21	.35	.03	.96								4.08
Shelbyville[2]	do		.26	.91			1.06		.89					.08		.62	1.62	.05					.18	.23	1.26	.28							7.44
Steffenville	do		1.59	.13		.32		.04	1.22				.16	.02	.16		.75	.14				.27	.65	.02	.93								6.40
Tarkio[3]	Missouri		T.			.41		1 20	T.			.02	.29		T.	T.	T.						.25	.03	.01	T.		.04	T.				2.25
Trenton[2]	Grand					.07		.04	.63					T.	.29	.02						.02	.40	.05	.26	.20							1.98
Troy[2]	Mississippi		.30	.45	.05		.83		.13					.45	.20	1.15	1.02	.05	T.					.15	.26	.02				.11			5.17
Unionville[2]	Chariton			.04		.29	.24		.81				.01		.02	.04	.01	.12				.23	1.25	.15	1.91	1.23			.12				6.47
Vandalia	Mississippi		.93			1.29		T.	.03				T.	.12	.63		.46					T.	.14	T.	.71								4.31
Warrenton	do	T.	.22	.38	1.05	.98	.02		.16	.02			.02	.92	.99	1.05	.48	.02					.20	T.	.46				.05				7.02
Keokuk, Iowa[1]	do	.09	.33	.03		1.49		.57		.05			.24	.79	T		.01	.50				.04	.07	.19	.15				.08			T.	4.63
Southwestern Division																																	
Altona[2]	Osage			.13					T.				.15	7.35	.22	T.									.11	.06							8.02
Anderson[2] ...1½ mi. SW	Neosho										.11														.07	T.	.42	.48					1.08
Appleton City	Osage			.02									*	9.15	.15	.05								.03	.57	.17							10.14
Ava Ranger Station[2]	White												*T.*	.15					.49						.15		.05						0.84
Bolivar	Osage			.10		T.				T.			1.76	2.45	4.40			.27	.08					.01	.56	.05	.03						9.71
Boonville[2] (A)	Missouri			.04			.16						.02	1.58	1.94	.02	.23	.02						.05	.07	.78							4.91
Boonville[2] (B)	do			.02			.16				T.		T.	1.65	2.15	.10	.19								.08	.87							5.22
Bradleyville[2]	White				1.88						.48								.18						.12	.29	.19						3.14
Buffalo[2]	Osage				.22								.20	6.05	3.03				.06						.62		.11						10.29
Butler	do												.62		5.98									.25		.32							7.17
Camdenton	do					.10							1.42	2.15	2.20									.05	1.65	.03							7.60
Caplinger Mills[2]	do			.05			.16						1.44	5.70	1.09			.16							.42	.04	.25						9.31
Carthage	Neosho													.12					.32						1.51	.38	.52						2.85
Cassville	White		.02								.20			*T.*												.06	.49	.61					1.38
Chadwick[2]	do				.58								.05	*	2.20									.21			.17	.03					3.24
Clinton[3]	Osage			.05		.11			T.			T.	2.99	3.73	.47									.13	.95	T.							8.43
Concordia	Missouri			.24		.04			.64				.24	1.22	1.42	.04	.05							T.	.25	.01							3.55
Crocker	Osage					.37				T.			.79	4.32	7.52				.14						.39	.43							13.96
Eldon	Missouri			.02		.32			.22		.17		1.01	3.68	2.18			T.	.25				T.	.48	.68								9.01
Eldorado Springs	Osage			T.		.06				T.			1.61	5.57	.18	.05			T.						.25	.16	.13						8.01
Elijah[2]	White				.03		.13				.32			.03	.21	.02			*	.22					.07		.24						1.27
Forsyth[2]	do				.43						.28								.03						.08		.20	.05					1.07
Galena[2]	White										.09														.13	.04	.44	.15					0.85
Granby[2]	do						.45				T.			.03	T.				.02						.16	.02	1.04	.54					2 26
Hailey	do									.09				.06												.21	1.16						1.52
Harrisonville[2]	Osage			.19									.08	3.92	.75	.12	.03								.07	.91							6.07
Jefferson City[2] (A)	Missouri				.01		2.02		.02					1.75	2.83	4.77	.02							.02	.51	.42	T.						12.37
Jefferson City[2] (B)	do				T.		1.92	T.	.05					1.73	2.39	5.21	T.							.02	.46	.43	T.						12.21
Joplin[1]	Neosho					.03							.05	.05	.10			.06	.14					.05	1.11	.56	.85						3.00
Lakeside[2, 5]	Osage				T.		.23			T.			T.	5.43	8.20	.03			T.	.26				1.11	.34	.36							15.96

Continued on next page

Daily Precipitation for August 1946—Continued from preceding page

Stations	Drainage-basins	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Total
Southwestern Division—	*Concluded*																																
Lamar[2]	Neosho				T.									.12	.05	.51			.10						.52	1.02	.53	.05					2.90
Lebanon[2]	Osage				.09		.72			T.				3.36	3.63	.41			T.	.03					.31	.22							8.77
Lexington[2]	Missouri			.18									.04	1.86	.20	.12	1.12							.18		T.							3.70
Lockwood	Osage			.08						T.			.12	.10	.13			.60	.08						2.00	.25	.43						3.79
Mansfield[2]	White				.35		.18				.14			.38	1.45	.12			.04	.10					.09	.36	.04						3.25
Marshall	Missouri					T.			.10				.11	1.50	2.00		.44								1.62								5.77
Marshfield[2]	White				.46			.03				T.	1.80	2.00	*	.06			.16	.02					.15	.40	.02						5.10
Mountain Grove[2]	Gasconade						.01							.45	2.65	.18			.38	.14					.08	.11	.04						4.04
Mount Vernon[2]	Neosho												T.		.07				.47						.79	.44	*	.03					1.80
Neosho	do						.20						T.	.03	.03				.05						.30	.21	2.00						2.82
Nevada	Osage					.05							.43	1.96				.19	.03						.30	.26	.18						3.40
Osceola[2]	do			.34									.32	6.83	.56	.02	1.10							T.	.34	.06							9.57
Ozark[2]	White				.16		.05				.25			.05	3.57										.34	.05	.31	.05					4.83
Ozark Beach[2]	do				.20						.13		T.						.07						.14	.01	.24	.04					0.83
Pierce City[2]	Neosho						T.							.06					.34						.74		.95	.25					2.34
Pineview Lookout[2]	White																																....
Pleasant Hill[2]	Osage			.30			T.				T.		.06	3.17	.16	.82									.10	.13							4.74
Roby	Gasconade					.73	.02		.07				.64	2.00	4.26				1.00					T.	.61	.08							9.41
St. Thomas[2]. 2¼ mi SW	Osage						.32			1.20				2.86	2.85	1.86									.51	.76							10.36
Saunders Lookout[2]	White																																....
Sedalia	Missouri			.13		.16				.01			.17	3.53	2.90	.16							.01	.08	.88								8.03
Seligman[2]	Neosho										.41																.17	.43					1.01
Seymour[2]...3½ mi. NE	White				.16		.34						.58	1.76	*	.18		.26	*	.15					.13	.24	T.			T.			3.80
Shell Knob[2]...3 mi. SE	do																																....
Siloam Sprgs Lookout[2]	do					.82	.30				1.94			.20	.23																		3.49
Springfield[1,5]. 4 mi. NW	do			.91		.10				T.	T.		.01	2.62	T.			.04	.39					.01	1.13	.31	.24			T.			5.79
Stover[2]	Missouri						1.07							4.59	2.13									.26	.29	.45							8.79
Sugar Camp Lookout[2]	White																																....
Sweet Springs	Missouri			.18		.68	T.			T.			.08	1.56	1.41	.03	.08						T.	T.	.42								4.47
Tecumseh[2]...¼ mi. W	White																																....
Topaz[2]	do										.45				.88	.28			.75							T.							2.36
Vanzant[2]...3¾ mi. SE	do				.41	.25					.44			.24	.34	.14			.67	.06					.08								2.63
Waco[2]	Spring													.09	.04	.16			.47						.66	.02	1.50	.07					3.01
Warrensburg	Missouri			.65		.18			T.				.36	3.64	1.57	.50								T.	.11	.04							7.05
Warsaw[2] (A)	Osage			.04		T.	T.						1.10	5.60	3.10	T.	.07								2.12	.53							12.56
Warsaw[2] (B)	do			*.04*									2.90	5.89	2.44	*T.*	*.07*								1.63	.06							§13.03
Wasola[2]	White				.24						1.22			.04	.08										.15	.15	.12						2.00
Waverly[2]	Missouri			.67		T.			.20				T.	1.39	.48	.04	*.38*	.70						.30	.18	.32							§4.66
Waynesville	Gasconade						.70			T.			*	4.20	4.70				.16						*.45*	*.40*							§10.61
Wilderness Lookout[2]	White										.19			T.												.02	.46	.36					1.03
Southeastern Division																																	
Advance[3]....½ mile W	St. Francis		.10	1.28		.42	.42		T.	.57	.02		.01	.80	1.08									T.	.01								4.71
Alton.......10 miles SE	Black	.32					.98			.41				1.18	3.08				.18						.07								6.22
Annapolis[2].....7 mi. W	do	.38	.03	.20	.89		.28							.25	2.40	.94								.01	.13	.14							5.65
Arcadia[2]	St. Francis	.25		.38	.25		.28			.22				.14	1.75	1.35										.17				.10			4.89
Belleview[2]	Meramec		.06	.24			.20			.37				.64	1.41	.71									.09	.13				.05			3.90
Bernie[2]	St. Francis		T		.28		.62				.78				.89	.85		.70							.11								4.23
Birch Tree[2]...½ mile E	Black																																....
Black...... 9 miles NW	do		.24	.51			.22						.03	1.65	2.10										.36								5.11
Bloomfield[2]	St. Francis			.04	.63		.62	.01			1.03			.05	.89	.81									.03	.07							4.23
Bunker[2]... 4 miles NW	Black			.15			.45							.72	2.50	3.60			.15						.43	.10							8.10
Campbell	St. Francis			.07		T.	.83				1.31			.52	1.05				.02						T.								3.80
Cape Girardeau (A)	Mississippi		.15	2.58		T.	2.20		.15	.03	T.			.54	.53		.27								.10								6.55
Cape Girardeau[2] (B)	do			1.60	.67		2.86	T.	T.	.18				.14	.73	.12	.51								T.	T.							6.81
Caruthersville[2] (A)	do				.32		.41	T.			1.56				.18	.31			.10							.05							2.96
Caruthersville[2] (B)	do				.33		.44				1.55				.18	.30			.08							.05							2.93
Centerville(1)[2]	Black		.07	.25	.90		.28							.93	2.07	1.10			.02					.07	.20	.21							6.10
Centerville(2)[2]	do		.03	.28	.93		.10							.50	2.35	.95			.01					.03	.13	.21							5.52
Cook Station[2]	Meramec		.69				.75							1.85	1.88	.70								.14	.23	.17							6.41
Crane Mountain[2]	St. Francis	.18	.25	.95	.10		.18							.75	2.38	.64										.20							5.63
Crystal City	Mississippi		.50	.92		.57	1.10			T.			.09	.27	.68	.20	.53						.05	.08									4.99
Cuba	Meramec		.25			2.14	.03			.60			.42	1.82	1.67									.03	.44	T.							7.40
Deering[2]	St. Francis				.14		1.18				1.54				.13	.28									.01	.06							3.34
De Soto	Mississippi		.65	1.10		*	1.64		.12					.55	1.28	.19	.47						.08		.05								6.13
Dexter[2]	St. Francis			.08	.30		.56		.04		1.11				.98	.81										.04							3.92
Doniphan(1)	Black	.06	.02	T.		.07	1.27			*	.15			1.07	1.40				.19					T.	T.	T.							4.23
Doniphan(2)[2]	do	.44					1.97				.61				1.27	1.14				.22						.09							5.74
East End[2]	Meramec		.29	.21	.29									1.15	1.95	.42									.51								4.82
Eastwood Lookout[2]	Black		.03		.08		.35				.77			1.37	.17	1.21			.17							.10							4.25
Ellington	do		.27	.10	1.00		.38						T.	1.48	4.97				.43					.12	.23								8.98
Ellsinore Lookout[2]	do				.12		1.20				1.38			*	.80	1.14			.13						.10	.20							5.07
Farmington[2]	St. Francis		T.	.52	.85		3.32			.79				.43	1.00	.65										.19							7.76
Fisk[2]	do						.84							T.	2.53																		3.37
Fredericktown[2]	do	.04	T.	.60	1.85		2.20				.66			.28	1.26	.50									T.	.06							7.45
Gerald	Meramec		.55	.09		1.26			.04					1.10	1.30	.40	.04						.02	.02	1.00								5.82
Greenville(1)	St. Francis																																....
Greenville[3] (2)	do	.55	.02	.16	.37		.85				.02			.09	1.80	.77			T.	.03					.06	.04							4.76
High Lookout[2]	Black				.50						1.00			.20	6.00	.15			.48	.02					.21								8.56
Jackson	Mississippi		.32	1.84		.88	.92		.20	.04				.59	.50		.02								.11								5.42
Jefferson Barracks[2]	Mississippi		*	.88	1.28	.09	3.85		.32					.30	*	6.20	3.79	.07						.06	.15					.29			17.28
Jerome[2]	Gasconade						1.12							2.64	2.96									.56	.24	.12							7.64
Koshkonong[2]	Black										.68			*	.58	.12			*	.44					.03	.03	T.						1.88
Leeper[2]	do		.01	.07	.28		1.03				.16			.10	2.23	1.76			T.	.06					.14	.02							5.86
Licking[2]	Gasconade			.07			1.80							1.13	5.95	.69			2.41	.18					.66	.29							13.18
Macedonia Lookout[2]	Black						1.32				1.05			T.	2.20	2.55			.04	.19						.04							7.39
Marble Hill	Mississippi		.64	.85			1.58		.07	1.87				.78	1.20										.05								7.04
Meramec Park[2]	Meramec		.16	.08	.10		1.36			.03				1.06	1.09	.34	.08	.02						.10	.31	.24							4.97
Morehouse	Mississippi		.03	.65			.65				.38			.53	.65	.02	.56																3.47
Moselle[2]	Meramec			.62	.15		.82		.05					1.02	.75	.70	.56							.16	.15	.15			.01				5.14
New Madrid[2]	Mississippi			.03	.37		1.02	.23			.33			T.	.42	.48		T.	.45						.05								3.38
Oates Tower[2]	Black		.10	.07	.88		.59							.52	2.42	.52			T.					.03	.15	.19							5.47
Owensville[2]	Gasconade		.32				.12		.01	.05				1.51	1.18	.08								.20	.50	.35							4.32
Pacific[2]	Meramec		.90	*	.46		1.66							.60	.35	1.67	1.90	.03						*	*	.36	*T.*						7.93
Parma[2]	St. Francis				.09		.50				.54				.78	.58		.37							.03	.07							2.96
Perryville	Mississippi		.50	1.01		*	3.51		.01				*	1.06			T.		.43						.10								6.62
Pilot Knob[2]... 2 mi. NE	St. Francis																																....
Poplar Bluff[2]	Black	T.		.02	.24		1.07				.58			T.	1.01	.84			T.	.07					.02	.02							3.87
Puxico[2]	St. Francis			.24	.35						.85			.03	1.19	1.20									.05	.01							3.92
Qulin[2]	do		T.	.18	.17		.52				.93			T.	.72	.78				.06					T.	T.							3.36
Reynolds[2]	Black			.20	.65	.21	.47							.68	3.63	1.08									.25	.08							7.25
Richwoods[2]	Meramec		.20	.18	.77		2.00							.78	1.03	.40	T.							.10	*	.47							5.93
Rolla[2]	do		.25		T.		.60							3.00	2.25	.50	T.							.35	.25	.35							7.55

Continued on next page

Daily Precipitation for August 1946—Continued from preceding page

Stations	Drainage-basins	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Total
Southeastern Division –	*Concluded*																																
Round Spring[2]	Black		.21				.36							*	5.56				.36						.51								7.00
St. Louis:																																	
City Office[1], [5]	Mississippi		.75	1.36	.01	2.74		T.	.42	T.			.07	.41	2.78	8.07	3.64	T.					.07	T.	.12	T.			.01				20.45
Airport[2], [5]	Missouri	T.	.95	1.45		2.31	T.	T.	.23	T.			.18	.45	2.21	4.31	2.35	.01					.09	T	.14				.10				14.78
St. Louis Univ.[1], [5]	Mississippi	T.	.97	1.09	.05	2.55		T.	.40				.09	.41	2.06	7.65	3.59	T.					.11	.08	.01				T.				19.06
Washington Univ.[2]	do		.90	1.08		.31	2.22		.54				.02	.48	.60	5.23	6.83							*.12*	.06	.02				*.06*			§18.47
Salem[2]	Meramec		.84				.37							1.20	5.27	1.35								.10	.39	.14							9.66
Sikeston[2]	Mississippi			.08	.61		1.11			.08	.20			.26	.51	.43	T.	.06								T.							3.34
Steelville[2] ... 2½ mi. NE	Meramec		.48	T.			.58			.68				1.40	1.81	.58										.38							5.91
Summersville[2]	Black			2.93			1.70							2.09	3.33	T.			1.18	T.					.51	.24	.06						12.04
Union[2] ... 1½ mi. SE	Meramec		.02	.18	.17		.97			.01				.74	.76	.85	*	.30						.16	.21	.24				.03			4.64
Valley Park[2]	do		.10	1.50	1.14		4.88		.09	.02				.33	.55	4.00	2.00	.90						.04	.18	.01				.13			15.90
Van Buren[2]	Black	.55		.07	.42		.61				.47				1.75	1.07				.23					.18	.05							5.40
Vichy[3] ... 2 miles NW	Meramec		.34	T.		.01	T.		1.02	T.			.87	2.06	2.33	T.							T.	.03	.53	.03				T.			7.25
Wappapello Dam[2]	St. Francis		.01	.01	.45		.49				.53			.06	1.51	.88									.05	T.							3.99
Webster Groves	Mississippi		.63	.90		3.11	.09		.28				T.	.38	.81	4.87	3.61						.08		.13				.24	*T.*			15.13
Weingarten	do		.90	2.58										.70	.60	.15																	4.93
West Plains[3]	Black			T.		T.				1.19	.07		T.	.70	T.				.33					T.	.07	T.	.02						2.38
Williamsville[2]	do				.08		1.38				.78				2.18	1.30									.02								5.74
Willow Springs[2] 500 ft E	White						.66						*T.*	.21	*	2.18			.61	.12				T.		.13							3.91
Winona Ranger Sta.[2]	Black					T.	1.05				1.20			1.60	1.90	.20								.22	.26								6.43
Zalma[2]	Mississippi	.17		.19	.85		.93			T.	.65			.14	1.62	.63									.01	.02							5.21
Cairo, Ill.[1], [5]	do	T.	.08	1.97		1.37	.71		T.	.13			T.	.29	.21		T.		.48				T.	T.	.01					T.			5.25

Except as otherwise indicated, amounts are for 24 hours ending late in afternoon. [1] Midnight to midnight. [2] Measured in the morning; for the preceding 24 hours. [3] Data for 24 hours ending 12:30 A. M. (C. S. T.) of following day. [5] Recording gage. T. Trace or 0.005 inch or less. * Included in next measurement. // Wind-shield on gage. Italics data interpolated. § Partly interpolated. (A) Record from cooperative station gage. (B) Record from river station gage. (C) Airport. † Received too late to be included in means and extremes.

Daily Evaporation (inches), Mean Temperature (F°), and Wind Movement (miles) for August 1946

(See precipitation data in daily precipitation table)

Station	Data	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Monthly
Columbia (Univ. of Mo. Hort. Exp. Sta. 9 mi. WNW.)	Evaporation	.223	.305	.217	.236	.190	.232	.178	.123	.287	.298	.188	.131	.032		.060	.220	.301	.299	.258	.192	.221	.084	.040	.088	.083	.163	.176	.127	.217	.193	.230	5.778
	Mean temperature	80	80	82	79	82	75	72	82	84	72	68	70	68	73	80	81	84	82	70	69	72	72	69	64	68	68	66	70	60	61	64	73.2
	Wind movement	13	26	29	10	22	17	26	49	38	33	8	26	25	62	17	56	85	31	21	4	14	6	5	12	8	6	16	22	63	17	45	812
Lakeside (Osage Dam)	Evaporation	.262	.237	.279	.304	.241	.244	.197	.243	.373	.219	.303	.222			.075	.190	.250	.301	.167	.248	.237	.233	.152	.008	.007	.084	.210	.179	.232	.214	.196	6.528
	Mean temperature	80	82	84	81	84	76	74	86	82	72	70	65	68	74	81	85	88	80	72	72	74	70	68	66	68	70	68	68	62	63	66	74.2
	Wind movement	10	6	19	34	12	39	19	71	37	24	23	20	56	81	45	13	6	34	21	22	11	19	40	9	31	19	22	13	60	38	18	872
St. Louis (Washington University)	Evaporation	.218	.260	.150	.118	.181		.087	.143	.093	.128	.191	.130	.018	.047			.077	.135	.196	.190	.171	.082	.025	.122	.024	.112	.140	.118	.044	.188	.133	3.898
	Mean temperature	82	76	77	78	82	73	74	78	78	72	70	66	67	70	78	78	81	82	71	70	72	70	72	65	68	68	66	69	64	62	66	72.5
	Wind movement	20	16	24	21	11	25	19	20	39	17	36	24	18	24	40	42	29	17	27	26	21	13	14	21	10	13	14	13	37	25	19	695

Observations taken at 8:00 a. m. except at 5:00 p. m. at Columbia. For Lakeside and St. Louis (Washington University) descriptions see April 1932 and August 1938 reports, respectively. * Included in next measurement.

(Continued from page 59)

28th. In Missouri River, at St. Charles, on 16th. In Osage River, at Warsaw and below, 14th to 20th.

Fogs.—Heavy, 1st, 4th, 7th, 14th, 15th, 18th, 25th, 26th, 27th, 28th, 29th, 30th.

Hail.—Light, 1st at St. Louis University; 3d at Marshfield, Springfield, Vanzant, and Cape Girardeau; 5th at Saverton, Springfield, and Sweet Springs; 7th at Seymour; 8th at St. Louis University, Vichy, and Cuba; 9th at Advance, Koshkonong, and Puxico; 13th at Springfield; 14th at Warrenton; 15th at Warrenton and St. Louis; 26th at St. Louis University. Heavy, 9th at Winona. (See special storm table).

Tornado. 5th. (See special storm table).

Windstorms.—5th, 7th, 8th, 9th. (See special storm table).

Daily Temperatures for August 1946

Stations		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Northern Division																																	
Brunswick /	Maximum...	96	92	93	92	92	88	84	93	87	82	84	70	78	82	89	90	97	88	84	88	84	75	72	64	74	82	81	71	70	77	83	83.3
	Minimum ...	69	70	71	71	71	67	65	66	70	63	59	59	63	66	68	69	72	74	60	57	57	65	65	63	59	58	58	58	50	49	50	63.3
Chillicothe /	Maximum...	93	93	89	90	87	87	84	91	83	80	80	73	77	80	86	91	97	86	83	88	84	72	71	65	73	81	81	67	69	77	84	82.0
	Minimum ...	69	71	71	69	69	65	66	67	69	61	58	62	64	65	67	68	69	69	57	56	65	65	64	62	58	56	58	62	46	50	51	62.9
Columbia	Maximum...	96	88	95	91	94	85	84	95	90	84	82	75	74	82	90	92	96	87	82	85	86	76	72	67	76	80	80	75	70	75	80	83.4
	Minimum ...	71	72	73	71	69	69	65	71	65	61	60	64	66	66	72	74	77	65	60	58	65	68	66	60	62	60	58	59	52	50	54	64.6
Fayette	Maximum...	92	88	92	91	93	81	82	93	91	84	81	80	73	80	90	90	94	91	83	85	83	78	74	70	75	80	79	76	68	74	80	83.0
	Minimum ...	71	69	69	68	71	65	63	69	75	60	55	61	64	65	71	70	77	73	59	55	62	66	65	60	61	56	55	66	46	49	49	63.4
Grant City	Maximum...	96	101	92	90	85	83	85	86	81	83	81	73	73	71	86	91	97	90	81	81	*90*	72	73	71	72	80	79	77	69	80	84	82.4
	Minimum ...	68	70	70	65	65	63	65	67	69	68	58	57	63	65	63	72	73	70	55	54	65	61	63	61	58	56	57	57	42	48	69	62.5
Hannibal	Maximum...	92	83	88	89	83	81	81	87	86	78	78	66	73	78	85	88	92	83	79	83	75	69	75	65	76	78	76	72	66	74	80	79.3
	Minimum ...	67	67	69	68	66	62	62	67	67	61	58	62	63	65	70	69	72	69	59	59	64	65	62	57	55	60	56	60	53	50	54	62.5
Kansas City Airport	Maximum...	100	101	95	94	94	87	98	101	90	83	92	74	75	81	92	102	102	88	86	91	94	85	77	76	73	81	77	69	71	78	86	86.9
	Minimum ...	74	79	75	71	71	68	70	75	69	64	64	65	65	70	70	77	79	68	63	60	68	70	70	64	63	63	60	59	49	55	62	67.1
Kirksville	Maximum...	94	87	85	87	83	82	82	85	82	78	76	72	70	75	83	88	94	89	80	86	80	72	73	68	74	78	77	72	67	72	79	79.7
	Minimum ...	68	67	70	68	64	63	62	68	71	60	56	62	62	64	68	71	75	68	57	56	63	63	63	61	52	57	56	61	46	49	53	62.1
Lawson	Maximum...	97	100	94	92	93	87	95	100	87	83	89	80	73	80	88	95	99	100	89	89	93	85	77	75	84	87	80	75	65	75	81	86.7
	Minimum ...	70	77	76	70	70	65	69	75	75	60	60	60	60	68	69	75	78	74	60	57	65	69	68	65	60	60	58	58	46	53	60	65.5
Louisiana	Maximum...	92	87	89	91	87	83	83	88	89	82	80	73	73	77	87	88	94	87	80	85	77	74	78	72	78	79	80	76	70	74	80	81.7
	Minimum ...	63	68	72	66	66	65	59	70	75	64	60	58	65	65	71	69	75	70	57	54	60	63	62	61	51	52	49	57	56	46	49	61.9
Macon /	Maximum...	97	90	95	92	91	85	85	92	88	82	80	77	78	78	88	91	95	88	83	87	77	72	76	68	77	81	81	70	69	75	81	82.9
	Minimum ...	65	68	70	68	68	65	63	65	67	62	64	61	62	65	64	71	71	72	59	55	60	64	63	59	52	55	53	56	47	48	50	61.7
Maryville	Maximum...	94	99	91	89	85	82	89	86	82	78	80	76	74	74	86	89	95	86	82	88	91	78	72	74	71	80	80	74	70	78	84	82.5
	Minimum ...	70	69	71	66	65	63	66	68	68	56	60	63	65	66	63	72	72	65	55	56	65	65	64	64	60	59	58	58	42	47	48	62.2
Mexico /	Maximum...	94	88	93	90	95	81	82	93	90	82	80	75	74	76	86	89	93	86	80	84	82	70	78	74	78	80	80	74	68	72	80	82.2
	Minimum ...	65	69	70	68	71	66	58	63	70	59	56	56	62	64	64	69	68	73	57	55	57	65	63	60	54	53	53	56	52	47	50	61.1
Moberly /	Maximum...	95	88	94	91	92	89	85	94	89	82	80	76	73	79	88	91	93	86	82	85	80	72	74	64	76	79	79	73	69	74	80	82.3
	Minimum ...	67	70	72	69	69	63	60	67	73	58	54	60	64	65	67	70	70	71	56	55	64	65	64	60	55	54	55	64	48	46	50	62.1
Oregon	Maximum...	95	100	91	93	88	87	93	87	84	82	85	74	75	71	89	95	95	82	86	90	94	83	76	76	72	82	77	68	72	79	79	83.9
	Minimum ...	71	75	72	67	65	64	66	69	66	57	61	63	63	67	65	70	75	65	59	60	65	65	66	65	60	61	58	58	44	51	54	63.5
St. Charles /	Maximum...	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
	Minimum ...	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
St. Joseph	Maximum...	96	100	93	93	87	87	95	90	81	83	86	72	74	77	92	97	99	88	85	90	92	82	76	77	73	82	78	67	72	77	86	84.7
	Minimum ...	74	76	72	70	67	66	67	70	69	62	63	64	63	68	66	76	80	69	59	58	68	69	67	64	62	64	60	54	47	51	56	65.2
Trenton	Maximum...	95	94	90	91	89	85	89	91	85	82	83	75	77	78	87	91	99	90	84	90	84	80	78	75	75	82	82	75	72	80	85	84.3
	Minimum ...	70	70	69	68	68	66	66	68	71	60	58	64	63	65	66	72	79	68	56	55	64	64	66	66	58	56	58	60	45	48	52	63.2
Unionville /	Maximum...	96	90	86	87	84	82	85	87	82	79	79	73	73	74	86	91	97	86	82	88	71	71	73	62	74	79	77	66	70	71	80	80.0
	Minimum ...	65	67	68	65	62	60	59	64	66	57	52	59	60	61	63	68	70	64	54	52	62	61	63	57	49	52	51	58	43	46	50	59.0
Warrenton	Maximum...	96	88	83	90	94	80	81	94	90	82	79	75	73	72	93	92	94	90	80	89	86	75	77	70	76	77	79	80	69	74	80	82.7
	Minimum ...	61	67	68	65	67	64	57	68	75	57	55	57	65	63	70	67	77	71	55	52	57	66	63	58	55	51	49	55	55	44	49	60.7
Keokuk, Iowa	Maximum...	90	81	90	87	73	82	79	85	84	77	78	67	70	74	79	88	89	85	79	84	74	73	78	67	79	80	77	70	67	74	80	78.7
	Minimum ...	67	68	71	71	63	65	61	69	68	62	58	60	62	65	71	73	70	68	60	59	66	65	61	60	57	60	56	57	51	52	56	63.1
Southwestern Division																																	
Clinton	Maximum...	100	100	102	94	101	90	98	111	98	91	89	70	71	88	94	100	100	89	88	88	91	83	74	75	72	78	80	73	70	74	84	87.6
	Minimum ...	68	74	71	70	72	68	65	73	70	63	60	62	62	68	72	75	73	68	59	58	60	65	67	64	63	62	62	62	54	51	51	64.9
Eldon	Maximum...	92	92	93	90	95	83	85	98	88	83	82	73	73	80	91	93	95	87	82	83	85	78	74	69	72	79	78	76	70	74	79	83.0
	Minimum ...	69	73	73	67	68	66	62	71	75	63	59	62	63	66	73	76	76	68	60	58	59	65	65	62	60	56	55	63	54	50	53	64.2
Harrisonville /	Maximum...	99	100	99	92	101	88	97	110	97	90	86	72	72	86	92	99	99	90	90	88	90	84	73	77	71	72	72	70	72	73	85	86.6
	Minimum ...	69	71	69	67	69	67	65	67	67	53	59	61	61	64	69	71	73	72	54	57	60	65	52	64	60	61	59	62	48	49	53	62.5
Jefferson City	Maximum...	96	92	95	94	96	85	85	96	90	83	83	75	74	83	92	93	96	88	81	85	86	79	72	70	76	79	79	77	69	74	80	84.0
	Minimum ...	66	69	74	67	66	66	62	71	75	60	58	60	65	65	70	74	77	71	58	55	60	66	66	61	61	54	54	61	55	48	50	63.4
Joplin	Maximum...	96	95	98	96	97	90	99	101	100	90	92	79	93	96	98	99	102	86	92	92	95	93	88	75	72	66	80	79	69	75	83	89.2
	Minimum ...	74	79	80	74	76	74	74	82	80	72	67	64	74	78	80	82	81	74	67	68	69	73	73	70	66	63	65	66	59	56	60	71.6
Lamar /	Maximum...	95	97	103	94	100	89	96	104	96	90	90	76	87	96	98	100	104	85	90	89	95	94	88	75	72	68	80	78	68	74	83	88.8
	Minimum ...	66	69	72	67	67	70	67	67	78	66	60	62	67	68	72	74	78	72	58	58	60	60	60	65	65	60	60	63	56	50	50	64.7
Lebanon /	Maximum...	95	93	95	91	94	84	90	99	91	85	85	68	69	81	93	93	95	81	84	84	87	82	74	69	71	78	79	80	67	73	80	83.5
	Minimum ...	66	71	74	65	70	64	61	63	71	61	50	60	63	65	65	74	75	71	60	60	60	61	63	63	60	60	56	61	55	45	49	62.6
Lexington /	Maximum...	102	103	98	98	96	102	90	94	104	95	90	75	76	84	93	98	100	90	89	90	92	84	77	71	75	84	81	74	74	79	85	88.5
	Minimum ...	70	75	73	69	69	74	67	67	69	74	68	62	65	68	69	72	66	75	61	63	64	68	67	66	62	63	60	62	50	51	54	65.9
Marshall	Maximum...	98	99	92	89	93	86	84	95	91	83	80	71	77	84	90	95	95	92	89	90	87	80	81	75	78	78	79	87	68	74	81	85.2
	Minimum ...	69	69	72	70	71	65	65	69	79	60	58	61	62	65	69	70	76	72	59	57	61	67	62	61	59	56	58	62	49	50	53	63.7
Mountain Grove	Maximum...	93	92	92	93	93	86	85	95	100	89	87	84	72	81	92	92	97	91	85	84	82	82	77	70	70	74	76	80	76	72	79	84.5
	Minimum ...	67	73	72	66	71	67	63	69	75	63	57	63	64	66	70	73	73	70	58	57	60	63	63	60	60	60	59	59	58	46	50	63.7
Neosho	Maximum...	95	96	98	95	97	97	98	103	102	91	91	89	94	97	100	100	102	95	92	92	94	94	90	84	76	68	82	81	77	75	86	91.3
	Minimum ...	65	70	75	69	70	68	68	76	76	64	53	68	71	73	76	77	76	74	55	56	58	63	70	68	66	60	63	66	59	47	54	66.3
Nevada	Maximum...	101	101	105	98	101	94	101	109	97	92	97	96	83	95	100	101	104	89	90	92	100	96	83	75	74	71	82	76	72	79	88	91.7
	Minimum ...	68	76	74	70	73	69	67	77	84	62	62	66	65	70	72	78	76	68	58	58	60	64	69	65	65	62	63	65	55	48	53	66.5
Sedalia	Maximum...	100	100	97	91	97	93	89	106	98	86	84	80	73	83	91	96	95	91	83	86	89	83	78	72	73	80	78	76	68	75	80	86.2
	Minimum ...	70	75	71	69	73	68	65	73	81	61	62	65	63	67	72	74	75	73	58	58	63	67	65	65	61	59	60	65	52	50	54	65.6
Springfield . 4 mi. NW	Maximum...	93	94	98	93	94	84	88	102	96	86	90	73	79	91	96	96	100	80	83	83	88	89	80	73	69	68	80	80	67	72	84	85.5
	Minimum ...	68	74	67	68	72	68	67	74	74	64	59	67	67	71	74	73	72	64	60	60	59	65	67	63	63	60	63	64	51	48	53	65.1
Warrensburg	Maximum...	98	100	97	91	95	89	96	105	96	89	89	87	74	86	91	98	97	89	86	88	92	90	84	75	73	80	79	74	72	..	..	[b]88.3
	Minimum ...	74	75	69	70	73	68	66	71	80	62	61	62	61	67	70	75	76	72	62	60	63	66	66	65	58	59	59	64	52	..	..	[b]66.4
Southeastern Division																																	
Arcadia /	Maximum...	90	85	83	85	90	81	82	92	97	82	84	75	72	76	90	84	94	83	83	82	62	76	81	67	77	80	78	80	69	75	80	81.1
	Minimum ...	64	63	67	65	64	70	59	60	61	64	56	56	57	64	65	73	73	72	56	53	53	53	60	62	60	52	46	46	58	44	43	59.3
Birch Tree .. ½ mile E	Maximum...	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
	Minimum ...	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
Caruthersville	Maximum...	89	85	80	88	91	83	86	89	95	89	81	82	77	80	91	92	93	89	84	81	81	85	83	78	79	78	89	84	78	72	72	84.0
	Minimum ...	71	72	69	69	74	68	70	71	76	69	65	67	68	68	72	74	75	70	67	64	63	65	69	65	65	64	59	66	53	53	53	66.9
Crystal City	Maximum...	96	93	87	91	95	81	85	93	92	85	85	75	75	74	95	92	96	91	86	85	88	84	83	82	83	82	81	83	80	76	82	85.7
	Minimum ...	63	67	65	67	69	66	61	68	75	61	56	56	65	64	70	68	75	72	57	55	56	64	62	59	57	52	47	54	60	44	44	61.3
Doniphan	Maximum...	96	91	85	94	96	95	90	95	100	89	90	81	86	84	95	96	98	93	89	86	88	88	84	80	82	81	86	86	79	76	84	88.5
	Minimum ...	67	67	69	70	69	67	62	66	71	69	59	61	67	66	71	74	72	72	60	62	54	60	67	64	63	62	62	59	63	45	43	64.0
Farmington	Maximum...	95	86	85	90	93	79	84	90	93	83	81	74	72	79	93	90	95	85	81	80	87	80	80	69	78	77	79	83	74	72	78	82.7
	Minimum ...	61	63	61	65	66	65	61	65	67	64	58	57	63	63	71	70	74	73	59	54	55	62	63	60	58	53	47	58	57	46	43	60.7
Jackson	Maximum...	97	85	81	90	93	83	88	90	98	87	87	82	75	78	93	90	95	94	88	84	89	81	86	74	83	84	84	89	75	76	82	85.8
	Minimum ...	65	69	65	70	71	67	63	67	74	67	59	60	64	65	72	70	75	69	59	56	55	62	64	61	59	54	48	59	62	45	43	62.5
Poplar Bluff	Maximum...	97	86	82	92	95	84	91	92	101	88	88	84	77	78	94	94	95	86	89	87	90	90	87	77	84	84	85	88	78	77	80	87.1
	Minimum ...	67	67	71	68	71	67	65	67	73	70	62	61	68	65	70	74	73	72	62	58	57	60	65	64	64	59	53	61	65	49	45	64.3
Rolla /	Maximum...	94	89	86	89	94	82	87	96	91	84	83	70	73	82	93	93	95	84	83	82	85	75	71	67	75	79	77	81	67	72	79	82.5
	Minimum ...	67	66	71	66	70	64	60	68	74	61	59	59	63	62	64	72	73	69	59	57	56	63	62	58	56	55	52	60	54	48	49	61.8
St. Louis	Maximum...	92	82	86	91	90	79	82	87	87	78	78	73	70	73	90	88	94	87	80	83	83	75	80	69	79	79	80	80	66	72	79	81.0
	Minimum ...	72	69	65	71	67	67	67	68	74	68	66	66	65	65	69	67	78	72	67	65	66	68	66	63	60	64	61	64	57	56	56	66.1
Salem /	Maximum...	94	88	85	90	95	82	88	95	94	84	84	71	70	75	93	91	96	81	84	84	87	77	70	63	77	80	80	81	68	73	68	82.3
	Minimum ...	65	67	68	68	71	65	60	64	73	62	56	60	65	64	65	73	74	70	56	60	55	59	61	60	59	56	54	54	57	46	46	61.7
Sikeston /	Maximum...	95	83	80	89	93	84	87	90	97	86	85	82	70	77	93	90	95	87	87	82	86	86	84	75	81	81	83	88	73	76	81	84.7
	Minimum ...	69	72	69	66	73	68	65	68	72	69	60	62	66	65	66	75	75	69	62	57	58	62	65	63	61	55	51	60	64	47	47	63.9
Union ......1½ mi. SE	Maximum...	99	90	88	93	98	81	82	97	90	86	84	76	73	80	94	93	97	89	83	84	88	83	78	79	77	78	81	83	73	75	81	84.9
	Minimum ...	62	69	66	66	69	66	59	69	78	59	55	56	65	64	72	68	77	72	56	54	55	64	61	60	59	53	47	55	58	45	45	61.4
West Plains	Maximum...	94	91	91	93	93	86	89	95	98	85	85	77	74	83	94	95	96	83	87	87	86	90	82	71	75	77	75	85	73	74	83	85.4
	Minimum ...	68	67	69	66	70	66	61	69	69	62	59	61	65	68	71	73	73	62	57	55	54	58	62	62	61	56	55	56	49	45	44	61.7
Cairo, Ill.	Maximum...	95	85	79	89	91	84	86	89	98	86	84	83	72	76	93	91	94	89	85	81	85	83	81	73	79	78	81	85	72	73	80	83.9
	Minimum ...	73	74	67	70	68	68	69	70	73	69	65	66	67	68	75	75	78	67	67	64	62	68	68	65	63	61	57	65	59	53	53	66.7

/ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs. [a], [b], [c], etc., number of days missing, for example, [b] indicates two days missing. *Italics* data interpolated. § Partly interpolated.

Missouri Storms, August 1946

County	Date	Time	Nature of storm	Storm moved from	Width of path (miles)	Length of path (miles)	Loss of life	Property damage (estimated)	Remarks
St. Louis City and County	5	Between 2:30 p.m. and 6:30 p. m.	Severe thunderstorms, high wind and local tornado	sw.	Approximately 4 to 5	About 15	0	$100,000	Storm apparently originated near Valley Park and moved northeastward into Illinois, with the bulk of the damage in downtown St. Louis as a result of lightning striking and setting afire two large buildings, as well as smaller buildings. Trees and limbs were blown down and power and communication service disrupted in scattered places throughout the affected area. A small local tornado demolished a hangar at Sylvan Beach airport and damaged several planes. Five persons were slightly injured either directly or indirectly by the thunderstorms. Heavy downpours of rain accompanied the severe electrical disturbances. Places reporting damage besides St. Louis City were Valley Park, Kirkwood, Webster Groves, Richmond Heights, University City; East St. Louis and Granite City, Ill. Corn was damaged extensively by wind in the Valley Park area.
Cole	5	Between 3 and 4 p.m.	Thunderstorm and wind	......	....	....	0	Not reported	At Jefferson City trees and wires were damaged and power and communication service disrupted. About 500 telephones were knocked out. Storm was accompanied by heavy rain.
Lincoln	5	....	Not known	......	....	....	1	....	A farmer of near Troy was electrocuted in attempting to remove a live wire from a wet tree limb.
Nodaway	7	During night	Thunderstorm and wind	......	....	....	0	Minor	Severe electric storm and strong wind; many limbs broken from trees.
Crawford	8	About 7:00 p.m.	Wind	nw.	....	....	0	Small	Trees uprooted and broken, some roofs damaged and power and communication lines and poles torn down. Wind estimated at sixty miles per hour. Storm was accompanied by hail, rain and lightning. Traffic on Highway 66 halted for one-half hour.
St. Louis City	8	During morning	Thunderstorm and wind	s.	....	....	1	Minor	A pedestrian was killed in a freakish accident when a chair was supposedly blown from a third floor window during a strong gust of wind. Street car service disrupted by electrical storm during the early morning rush hour.
Butler	9	Early night	Electrical and wind	......	....	....	0	Not reported	High wind and electric storm reported having swept southeastern Missouri early at night but no details available than other newspaper account. At Poplar Bluff three plate glass windows were shattered, awnings ripped away, trees uprooted and light service disrupted.
Shannon	9	Approximately 3:00 p.m. to 3:10 p.m.	Heavy hail and gusty wind	ne.	....	1	0	None	Storm occurred at Winona. Hail covered only a small wooded area. Stones were ⅜ inch in diameter with some stones ⅜ by 1 inch long appearing as two stones joined to-gether. No crops in vicinity. Heavy rain followed the hail.

Time used on this tabulation is Central Standard Time, unless otherwise indicated.

WBO, St. Louis. 12-16-46—1000.

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U. S. DEPARTMENT OF COMMERCE, WEATHER BUREAU

CLIMATOLOGICAL DATA

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MISSOURI SECTION

H. F. WAHLGREN
ST. LOUIS, MO.

VOL. L SEPTEMBER 1946 No. 9

PRICE: 5 CENTS A COPY; 25 CENTS A YEAR

GENERAL SUMMARY

1947

September was both cooler and drier than normal, but it was a favorable month for crop growth and maturity, except in the extreme southwestern counties where drought conditions continued throughout the month. No killing frost occurred anywhere in the State during the month, although light frost formed locally on the 24th and 29th and more generally on the 30th, but without damage.

The sub-normal temperatures were general over the entire State, except locally at a few individual stations in the Northern and Southwestern divisions, where the monthly average was above normal. The average for the Northern Division was 66.9°, −1.0°; for the Southwestern Division 69.0°, −0.9°; for the Southeastern Division 68.0°, −2.1°. Warm periods were from the 5th to 10th and 25th to 28th, with cool periods from the 1st to 4th, 11th to 14th, and the last two days of the month. The 5th, 6th, and 7th were generally the warmest days, the maximum temperatures ranging from the high 80's to the middle 90's, as a rule. The 30th was the coldest day of the month; minimum readings registered in the low 30's to the low and middle 40's, generally. Temperature extremes were not unusual and were well within the extremes of past Septembers.

All of the month's precipitation was in the form of rain, no snow being reported anywhere in the State. The distribution was rather irregular, ranging from a monthly total of 9.77 inches at Oregon, to only 0.25 inch at Siloam Springs Lookout. A heavy fall of 5.85 inches on the 27th, at Oregon, with more than 4 inches of that amount occurring within an hour, resulted in a flash flood in small streams in that area and caused considerable property and crop damage. The Northern Division received the greatest amount of precipitation, with an average of 2.84 inches; this was 1.36 inches less than normal. The average for the Southwestern Division was 1.94 inches, --2.35 inches, and for the Southeastern Division 1.95 inches, −1.70 inches. For the State, as a whole, the average rainfall was 2.24 inches, −1.81 inches, which made this the driest September since 1940 and 7.21 inches drier than September one year ago, which was the wettest month of its name in the past 59 years.

River stages throughout the month were at relatively low levels in the major streams of the State, and no overflows occurred.

Only three damaging storms were reported and these are tabulated in the accompanying storm table.

Although precipitation averaged considerably less than normal for the month, except for the southwestern drought area, there was generally ample moisture for current needs, due to the heavy rainfall over much of the State during August and the rather frequent light to moderate showers this month. Corn continued to make good progress during the month, except in the drought area, and practically all of the crop was safe from frost damage by the close, with prospects for a near-record production. Soybeans also continued to make good progress and the current crop was expected to be the largest of

(Continued on page 67)

PRESSURE, WIND, HUMIDITY, AND SUNSHINE

Stations	Sea-level pressure, extremes–inches				Wind				Relative humidity				Percentage of sunshine	Degree days
	Highest	Date	Lowest	Date	Average hourly velocity	Maximum velocity ¶	Direction of maximum	Date	12:30 a. m.	6:30 a. m.	12:30 p. m.	6:30 p. m.		
Columbia	30.41*	30	29.54*	22	6.1	29	w.	22	81*	85*	52*	61*	80	30
K. C. Airport	30.46	29	29.50	22	9.6	32	nw.	22	74	83	53	56	75	37
St. Joseph	30.47*	29	29.55*	22	8.0	28	nw.	27	83*	88*	56*	61*	64	52
St. Louis	30.41*	30	29.62*	22	9.8	26	sw.	24	80*	83	53	59*	80	24
Springfield	30.41	30	29.50	22	10.4	35	s.	22	83	89	53	61	77	37
Cairo, Ill.	30.35	30	29.71	22	6.2	22	nw.	23	..	90	57	..	69	10
.....	.....	..	.....	..	....	..	......	..	..	..	..	..	..	....

* Data for Airport station. ¶ For 5-minute period.

COMPARATIVE DATA FOR SEPTEMBER

Year	Temperature			Precipitation					Number of days			
	Average for State	Highest	Lowest	Average for State	Average, Northern Division	Average, Southwestern Division	Average, Southeastern Division	Snowfall, Average for State	Precip. .01 inch or more	Clear	Partly cloudy	Cloudy
1888	65.2	97	28	1.01	1.13	0.87	1.02	0	4	..	..	..
1889	64 7	94	32	4.68	5.55	4.66	3.83	0	11	..	..	..
1890	63.7	98	30	4.36	3.25	5.49	4.34	0	9	..	..	..
1891	70.6	104	34	0.72	0.53	0.90	0.72	0	6	..	..	..
1892	67.8	97	32	2.46	2.73	2.71	1.93	0	4	19	6	5
1893	69.9	107	26	4.07	3.50	3.96	4.74	0	6	17	7	6
1894	68.5	101	34	4.94	4.16	6.42	4.23	0	8	13	11	6
1895	71.8	104	24	2.38	2.04	2.43	2.66	0	4	19	8	3
1896	65.0	101	28	4.09	4.67	3.92	3.69	0	10	11	10	9
1897	74.3	105	27	0.67	0.97	0.61	0.43	0	2	23	5	2
1898	70.9	103	37	6.70	6.76	7.25	6.10	0	9	15	9	6
1899	67.4	108	21	1.96	2.27	1.79	1.81	0	4	20	6	4
1900	71.1	100	29	4.59	4.77	5.56	3.44	0	10	13	10	7
1901	68.9	103	27	2.16	2.41	2.75	1.31	0	6	18	8	4
1902	63.2	95	30	4.63	4.74	5.36	3.79	0	10	15	6	9
1903	66.6	98	32	4.16	5.64	3.56	3.28	0	8	17	6	7
1904	69.6	96	34	3.77	4.72	2.78	3.82	0	7	16	8	6
1905	69.6	98	41	7.40	8.20	8.36	5.64	0	10	15	6	9
1906	71.9	98	36	4.53	3.54	3.75	6.31	0	11	15	8	7
1907	68.9	101	31	2.06	2.35	1.62	2.20	0	6	18	7	5
1908	71.6	99	28	2.15	1.49	2.69	2.27	0	4	18	8	4
1909	68.7	105	28	4.48	5.30	3.35	4.79	0	8	18	6	6
1910	69.5	97	34	5.45	5.90	6.44	4.01	0	10	14	6	10
1911	73.7	105	39	6.27	8.17	5.98	4.65	0	11	13	7	10
1912	68.6	105	27	3.11	2.72	2.87	3.74	0	6	17	5	8
1913	69.4	109	27	4.75	3.74	4.64	5.88	0	9	13	7	10
1914	69.6	99	35	6.06	7.19	6.01	4.98	0	9	15	8	7
1915	70.6	93	34	5.18	6.21	6.93	2.40	0	7	16	7	7
1916	67.8	101	27	2.97	2.73	3.18	2.99	0	6	19	7	4
1917	67.9	101	33	2.76	2.97	3.64	1.66	0	5	19	6	5
1918	62.3	96	29	4.83	4.11	5.44	4.95	0	7	17	6	7
1919	71.4	104	38	3.14	4.13	1.95	3.34	0	5	20	6	4
1920	70.0	100	31	4.60	4.37	5.78	3.64	0	9	17	7	6
1921	73.4	104	34	6.94	8.05	7.03	5.74	0	13	13	9	8
1922	71.7	107	31	3.10	3.95	3.62	1.74	0	5	21	5	4
1923	68.7	98	33	4.44	4.84	4.75	3.74	0	11	12	9	9
1924	64.0	96	29	3.79	3.41	4.55	3.40	0	8	14	8	8
1925	74.6	110	45	6.56	5.84	6.48	7.37	0	10	14	6	10
1926	69.3	97	27	8.64	11.74	9.12	5.06	0	13	12	7	11
1927	71.6	102	29	3.72	3.11	3.41	4.65	0	8	17	7	6
1928	65.0	95	28	2.50	5.36	1.62	0.53	0	5	20	7	3
1929	67.4	98	33	3.16	3.16	2.83	3.48	0	8	13	10	7
1930	71.3	105	37	4.28	2.86	5.48	4.49	0	8	16	7	7
1931	75.0	104	36	3.91	5.97	3.18	2.58	0	7	19	7	4
1932	67.8	99	33	2.56	2.08	2.04	3.57	0	6	17	8	5
1933	74.6	102	36	4.69	3.00	4.92	6.16	0	9	16	8	6
1934	65.6	95	32	7.39	7.49	7.79	6.89	0	12	12	8	10
1935	68.1	98	33	3.51	4.30	3.13	3.10	0	6	20	4	6
1936	73.6	109	37	8.62	8.76	9.98	7.12	0	11	11	9	10
1937	69.4	103	29	2.41	1.12	2.53	3.57	0	5	18	7	5
1938	71.6	103	30	1.85	1.51	2.40	1.65	0	6	18	7	5
1939	75.5	108	30	0.81	0.42	0.74	1.27	0	2	23	5	2
1940	68.8	100	28	0.69	0.35	1.11	0.62	0	3	19	6	5
1941	71.6	97	35	5.83	5.98	7.34	4.17	0	9	14	9	7
1942	67.4	97	22	4.19	3.58	6.51	2.47	0	7	15	7	8
1943	65.8	102	33	3.51	3.15	3.97	3.41	0	8	13	10	7
1944	69.1	100	36	2.82	3.10	2.87	2.49	0	6	15	8	7
1945	69.4	103	36	9.46	8.83	10.07	9.49	0	14	12	7	11
1946	68.0	97	32	2.24	2.84	1.94	1.95	0	6	17	8	5
....	....	...	..	....	....	....	....	.	..	..	..	..
....	....	...	..	....	....	....	....	.	..	..	..	..
Period	**69.3**	**110**	**21**	**4.05**	**4.20**	**4.29**	**3.65**	**0**	**8**	**16**	**7**	**7**

NAT.

Climatological Data for September 1946

Stations	Counties	Elevation, feet	Temperature, in degrees Fahr.							Precipitation, in inches						Number of days				Prevailing direction of wind	Observers
			Length of record, years	Mean	Departure from the normal	Highest	Date	Lowest	Date	Length of record, years	Total	Departure from the normal	Greatest in 24 hours	Date	Total snowfall, unmelted	With precip., .01 inch or more	Clear	Partly cloudy	Cloudy		
Northern Division																					
Albany	Gentry	930	5	65.2	......	90	5	34	30	17	4.64	−0.91	1.16	22	0	9	9	19	2	s.	Curtis E. Grace
Amity	DeKalb	1,007	0	67.0	......	91	5	37	30	11	4.98	+2.24	2.14	4	0	8	14	8	8	se	O. M. Colhour
Bethany	Harrison	916	51	65.3	− 1.8	90	5	34	30	53	4.85	+0.29	2.45	27	0	9	19	5	6	sw.	B. A. McGregor
Brookfield	Linn	767	5	68.4	......	93	8	39	30	5	2.37	......	0.80	19	0	7	19	7	4	s.	G. F. Breen
Brunswick	Chariton	652	65	67.4	+ 0.4	91	5	39	30	67	2.85	−1.96	1.03	22	0	6	20	8	2	se.	O. K. Benecke
Canton, Lock & Dam 20	Lewis	488	8	68.1	......	90	5†	38	30	16	1.81	−1.93	1.01	22–23	0	5	19	9	2	se.	Lockmaster
Carrollton	Carroll	754	0	....	......	..	..	35^{m}	30	0	....	......	1.20	22	0	..	..	..	..	......	Harold E. Finley
Chillicothe 2 mi ESE(C)	Livingston	771	37	65.8	− 1.7	91	8	35	30	40	4.04	−0.74	2.18	22	0	6	15	8	7	se.	Civil Areo. Authority
Columbia	Boone	740	56	68.9	− 0.5	90	7	40	30	56	1.57	−2.78	0.49	22	0	9	21	7	2	s.	U. S. Weather Bureau
Conception	Nodaway	1,108	57	66.9	− 0.3	91	5	37	29	62	4.51	−0.13	1.85	27	0	11	15	9	6	se	Fr. Adelhelm Hess
Edgerton	Platte	856	26	....	......	..	..	..	..	43	....	......	....	..	.	..	..	..	..	......	W. A. Foster
Elsberry	Lincoln	449	15	66.4	− 2.9	91	6†	34	30	15	2.65	−0.35	0.87	28	0	6	23	3	4	nw.	Soil Conservation Service
Fayette	Howard	760	66	67.2	− 0.9	89	6†	38	30	63	1.82	−3.14	0.59	19–20	0	6	22	4	4	se.	Irvin E. Schnell
Fulton	Callaway	818	58	66.7	− 2.2	89	7	37	30	54	1.49	−3.00	0.65	22–23	0	5	30	0	0	s.	Frank E. Hillgartner
Grant City	Worth	1,134	42	65.6	− 1.4	90	5†	37	29	54	3.83	−0.86	0.78	19	0	11	14	8	8	n.	J. Homer Korn
Hannibal	Marion	759	54	67.2	− 0.5	90	5†	39	30	62	1.61	−2.36	0.52	19–20	0	6	17	12	1	s.	Hannibal Water Dept.
Kansas City Airport	Jackson	741	57	69.3	+ 0.4	92	5	42	30	57	2.45	−1.37	0.68	19	0	7	16	7	7	s.	U. S. Weather Bureau
Kansas City Univ.	Jackson	908	8	68.4	......	91	5	38	30	8	4.89	......	1.97	22	0	10	15	9	6	sw.	University of Kansas City
Kidder	Caldwell	1,020	54	66.1	− 1.2	90	5	38	30	58	5.21	+0.01	1.48	27–28	0	9	16	5	9	s.	Mrs. Geraldine Terry
Kirksville	Adair	969	57	66.2	− 0.1	88	5	40	30	64	2.73	−2.45	1.47	22	0	6	24	6	0	s.	Dr. Willis J. Bray
Lawson	Ray	1,070	8	....	......	..	..	..	..	8	....	......	....	..	.	..	..	..	..	......	Elmer E. Lamb
Louisiana	Pike	469	52	66.8	− 1.2	91	7	34	30	65	1.80	−2.63	0.52	7	0	8	23	7	0	s.	Stark Bro's Nurseries
Macon	Macon	875	47	66.6	− 1.3	91	8	39	30	53	3.34	−1.10	1.34	9	0	6	17	8	5	e.	John W. Atwell
Maryville	Nodaway	1,169	56	65.2	− 0.4	90	5	37	29	52	6.11	+1.43	1.49	27	0	10	16	2	12	se.	R. B. Montomery
Memphis	Scotland	787	7	66.0	......	91	5	37	30	16	1.75	−2.43	0.77	22–23	0	4	12	14	4	sw.	John W. Alexander
Mexico	Audrain	800	57	66.9	− 1.6	90	5†	34	30	68	1.50	−3.47	0.48	20†	0	5	22	3	5	sw.	Darrence W. Stuart
Moberly 3½ mi. NE	Randolph	860	9	66.8	− 0.3	89	5	36	30	9	1.74	−1.74	0.83	22	0	6	22	5	3	s.	F. W. Bell
New Florence. 1 mi SE	Montgomery	885	3	66.0	......	90	7	38	30	4	1.74	......	0.85	22–23	0	6	12	15	3	s.	U. S. Weather Bureau
Oregon	Holt	1,048	90	66.6	− 0.5	90	5	37	29	90	9.77	+4.67	5.85	27	0	8	16	7	7	se.	James M. Curry
Polo	Caldwell	1,000	0	66.0	......	90	5	39	29	0	3.85	......	1.33	5	0	8	18	9	3	se.	F. B. Albright
St. Charles	St. Charles	520	58	....	......	..	..	..	..	68	....	......	....	..	.	..	..	..	..	......	....
St. Joseph	Buchanan	957	36	67.9	− 0.5	91	5	40	30	74	4.70	+0.78	1.15	27–28	0	11	15	9	6	s.	U. S Weather Bureau
Salisbury	Chariton	723	0	67.5	......	90	5†	37	30	0	2.32	......	0.79	22–23	0	7	21	9	0	s.	David H. Robertson
Saverton, Lock No. 22.	Ralls	472	8	68.0	......	92	6	40	30	8	1.68	......	0.60	20	0	7	26	2	2	s.	Lockmaster
Shelbina	Shelby	779	5	67.8	.....	91	5†	36	30	53	1.90	−3.04	0.75	22–23	0	5	24	5	1	sw.	Guyman Hatcher
Steffenville	Lewis	650	48	67.2	− 1.8	90	6†	35	30	53	2.61	−1.89	1.31	22	0	5	22	8	0	se.	Mrs. Fannie V. Gross
Tarkio	Atchison	916	43	64.4	− 1.9	99	5	33	30	52	7.01	+2.77	2.82	4	0	10	13	11	6	s.	C. A. A. Station
Trenton	Grundy	822	50	67.6	+ 0.4	91	5†	38	30	51	2.35	−2.40	0.62	27	0	9	16	12	2	s.	W. H. Estes
Unionville	Putnam	1,062	53	64.6	− 2.5	89	5	36	30	53	2.35	−2.74	0.90	22	0	6	19	11	0	s.	Mrs. Dora A. Wilson
Vandalia	Audrain	766	2	69.8	......	94	26	35	30	7	1.70	......	0.65	20	0	4	21	4	5	s.	Mrs. Naomi K. Stoutz
Warrenton	Warren	816	64	67.2	− 1.8	90	5†	33	30	56	1.75	−2.61	0.88	22–23	0	4	26	3	1	e.	W. T. Zimmerman
Keokuk, Iowa	Lee, Ia.	574	74	67.2	− 0.3	88	8†	44	30	74	2.59	−1.25	1.37	22–23	0	8	19	10	1	se.	U. S. Weather Bureau
Division means	**and extremes**	....	..	**66.9**	**− 1.0**	**94**	**26**	**33**	**30**	..	**2.84**	**−1.36**	**5.85**	**27**	**0**	**7**	**19**	**7**	**4**	**s.**	
Southwestern Division																					
Anderson 1½ mi SW	McDonald	1,000	42	68.5	− 2.5	94	5	34	30	47	1.60	−2.28	1.02	10	0	3	24	1	5	sw.	Samuel G. Chamberlain
Appleton City	St. Clair	813	51	68.6	− 1.8	90	5†	39	30	54	1.86	−2.52	0.70	19–20	0	7	20	2	8	ne.	Rolla Brown
Bolivar	Polk	1,071	43	69.6	− 0.3	91	5†	40	30	51	1.51	−2.70	0.75	22–23	0	5	16	8	6	sw.	Southwest Baptist College
Boonville	Cooper	650	8	67.5	......	89	5	38	30	69	2.30	−2.89	0.68	22–23	0	6	16	11	2	sw.	Boonville Water Dept.
Butler	Bates	865	0	67.2	......	92	6	34	30	5	4.59	......	1.70	9	0	5	15	7	8	sw.	F. S. Wolf
Camdenton	Pulaski	940	0	69.5	......	89	5	41	30	0	2.09	......	0.94	1	0	5	21	7	2	s.	L. C. Scott
Carthage	Jasper	962	12	71.2	......	94	5†	39	30	22	1.11	......	0.45	22–23	0	5	8	22	0	sw.	Carthage W. and E. Plant
Clinton	Henry	786	53	68.2	− 2.6	91	7	39	30	59	3.75	−0.77	1.48	9	0	7	17	9	4	s.	U. S. Weather Bureau
Eldon	Miller	934	51	67.6	− 1.8	88	5†	37	30	47	1.94	−2.68	0.78	22	0	5	16	11	3	s.	Ira M. Wilson
Harrisonville	Cass	904	68	66.8	− 1.7	90	5†	40	23	71	3.37	−1.53	1.92	22	0	7	18	3	9	se.	Jeffrey B. Patterson
Jefferson City	Cole	557	56	67.8	− 1.5	90	5†	35	30	64	1.60	−2.63	0.69	9–10	0	4	18	10	2	se.	K. W. O. S. Radio Farm
Joplin	Jasper	1,008	24	72.2	+ 0.1	92	5	45	30	41	2.07	−1.85	0.67	2	0	7	12	13	5	se.	Empire Dist. Electric Co.
Lakeside	Miller	595	15	67.6	− 3.4	93	5	37	30	15	2.82	−1.58	1.11	1	0	5	11	14	5	se.	W. S. Frame
Lamar	Barton	980	58	69.0	− 1.8	93	5	41	30	65	1.30	−3.25	0.65	22	0	3	21	4	5	se.	Mrs. Marie Mann
Lebanon	Laclede	1,265	58	66.4	− 3.0	90	6	34	30	59	1.17	−3.32	0.63	22–23	0	5	16	6	8	sw.	Mrs. Rosa E. Montelius
Lexington	Lafayette	688	61	....	......	92^{p}	9	..	..	62	*1.95*	−2.82	*1.35*	22–23	0	2	..	..	..	......	Tilton Davis
Lockwood	Dade	1,078	40	70.8	− 0.1	93	5†	40	30	50	1.67	−3.11	0.67	22	0	5	18	8	4	se.	Hubert A. Nieman
Marshall	Saline	779	59	68.0	− 0.8	90	5	34	30	56	1.70	−3.80	0.85	22	0	4	19	10	1	s.	Thomas A. Reid
Mountain Grove	Wright	1,463	45	67.9	− 1.0	87	5†	37	30	49	1.03	−3.03	0.56	22–23	0	4	17	8	5	se.	Mo. Fruit Exp. Station
Mount Vernon	Lawrence	1,174	34	71.3	+ 0.8	95	5	39	30	46	0.98	−2.86	0.44	22	0	4	13	14	3	se.	James C. Williamson
Neosho	Newton	1,011	59	70.6	+ 0.1	93	5	36	30	63	2.10	−2.19	0.81	2	0	6	18	7	5	se.	U. S Fisheries Station
Nevada	Vernon	862	53	71.6	+ 2.1	94	5†	40	30	54	2.36	−1.95	0.97	2	0	7	17	8	5	sw.	Henry Kraft
Ozark Beach	Taney	700	6	71.1	......	95	5†	39	30	21	1.12	−2.07	0.40	23	0	7	8	13	9	sw.	Empire District Elec. Co.
Sedalia	Pettis	910	33	69.3	+ 0.1	90	5†	36	30	35	2.28	−2.62	0.83	22–23	0	5	18	3	9	se.	Dr. J. E Caunaday
Seligman	Barry	1,542	45	69.8	+ 0.2	95	5	43	30	43	2.02	−1.66	1.15	22	0	3	15	11	4	s.	Floyd E. Fawver
Seymour 3½ miles NE	Webster	1,642	40	66.0	− 2.8	88	5	38	30	40	1.98	−2.04	0.98	2	0	4	19	5	6	s.	Ira H Hailey
Springfield 4 mi. NW	Greene	1,301	58	68.4	0.0	91	5	36	30	58	1.27	−2.25	0.67	22	0	9	9	10	11	se.	U. S. Weather Bureau
Sweet Springs	Saline	700	5	68.4^{a}	......	92^{a}	5†	34^{a}	30	5	2.72	......	1.62	22	0	5	13^{a}	14^{a}	2^{a}	s.	H F. Nelson
Warrensburg	Johnson	878	59	70.4^{h}	+ 0.2	91^{h}	5	41^{h}	30	66	2.25	−2.53	0.88	22–23	0	7	23	5	2	se.	Central Teachers College
Warsaw	Benton	687	45	69.7	− 0.8	93	6	37	30	51	2.81	−2.22	0.97	9	0	6	16	5	9	nw	Dora B. Johnson
Wasola	Ozark	1,294	5	69.4	......	90	5†	40	30	6	0.96	......	0.56	22	0	3	15	11	4	e.	A. W. Pinckney
Waynesville	Pulaski	805	0	....	......	..	..	..	..	0	....	......	....	..	0	..	..	..	..	......	Jesse H. Barlow
Division means	**and extremes**	....	..	**69.0**	**− 0.9**	**95**	**5†**	**34**	**30**	..	**1.94**	**−2.35**	**2.58**	**22**	**0**	**5**	**16**	**9**	**5**	**se.**	
Southeastern Division																					
Advance ¼ mile W	Stoddard	354	9	67.8	− 2.0	92	8	38	24†	9	1.22	−1.42	0.39	1	0	7	6	13	11	s.	U. S. Weather Bureau
Arcadia	Iron	926	65	64.4	− 3.2	90	26	38	24†	68	2.95	−1.03	1.48	1	0	7	16	3	11	e.	Arcadia College
Birch Tree ½ mile E	Shannon	1,000	51	....	......	..	..	..	..	52	....	......	....	..	.	..	..	..	..	......	R. C. Moger
Black 9 miles NW	Iron	1,000	53	64.0	− 3.8	88	6†	32	24	53	1.42	−2.44	0.64	1	0	4	21	3	6	sw.	M. L. Volner
Campbell	Dunklin	314	20	70.0^{d}	− 1.6	91^{d}	7†	44^{d}	30	20	1.29	−2.58	0.42	29	0	8	12	16	2	s	Mrs Ruth Christian
Cape Girardeau	Cape Girardeau	347	1	70.8	......	89	8	46	30	46	1.35	−2.56	0.68	23	0	6	13	9	8	s.	Homer R. Bolen
Caruthersville	Pemiscot	265	50	71.2	− 3.3	89	10	48	30	54	1.77	−1.44	1.00	2–3	0	5	13	8	9	e.	Victor T. Malloure
Crystal City	Jefferson	420	12	68.0	− 0.9	97	26	33	30	12	2.31	−1.07	1.58	1	0	7	16	4	10	se.	Richard K. Ragland
Doniphan	Ripley	344	42	68.5	− 2.7	96	7	37	24	42	1.89	−1.72	1.12	29	0	5	22	3	5	n.	Boyce Lackey
Farmington	St. Francois	896	35	66.0	− 3.6	90	6	38	30	49	2.35	−1.45	1.39	1	0	6	10	16	4	s.	F. M. Karsch
Greenville	Wayne	460	37	....	......	..	..	..	..	39	....	......	....	..	.	..	..	..	..	......	Beuford Shoemake
Jackson	Cape Girardeau	428	55	69.6	− 0.5	95	8	41	24	56	1.60	−2.42	0.84	22–23	0	5	15	9	6	s.	Danny Siebert
Koshkonong	Oregon	958	45	67.8	− 3.6	93	10	35	30	46	1.32	−2.32	0.73	1	0	5	17	9	4	ne.	Mrs Genevieve T. Smith
Licking 4 miles N	Texas	1,170	9	65.2	− 3.8	87	6†	32	29	9	2.22	−2.32	0.91	22–23	0	5	16	6	8	s.	Fern E. Austin
Marble Hill	Bollinger	532	51	69.0	− 1.7	93	7†	39	24	53	2.75	−1.13	1.30	1	0	6	22	5	3	s.	R. A. DeWitt

Continued on next page

Climatological Data for September 1946—Continued from preceding page

Stations	Counties	Elevation, feet	Temperature, in degrees, Fahr.							Precipitation, in inches						Number of days				Prevailing direction of wind	Observers
			Length of record, years	Mean	Departure from the normal	Highest	Date	Lowest	Date	Length of record, years	Total	Departure from the normal	Greatest in 24 hours ^{4}	Date	Total snowfall, unmelted	With precip., .01 inch or more	Clear	Partly cloudy	Cloudy		
Southeastern Division—	*Concluded*																				
Poplar Bluff	Butler	339	41	70.2	− 1.5	95	10	41	24	42	4.38	+0.49	2.09	28–29	0	7	14	7	9	nw.	Osmon M. Richardson
Rolla	Phelps	1,202	46	66.0	− 2.7	89	7	39	30	62	1.57	−2.57	0.98	22–23	0	5	12	15	3	sw.	Rolla School of Mines
St. Louis:																					
City Office		465	109	70.0	− 0.5	91	7	47	30	109	1.52	−1.94	0.65	1	0	5	11	12	7	s.	**Section Center**
St. Louis Airport	St. Louis	556	9	68.6	− 0.2	91	7†	44	30	15	2.22	−2.15	1.27	1	0	5	9	13	8	s.	U. S. Weather Bureau
St. Louis University	St. Louis City	578	34	70.0	− 0.9	90	7†	47	30	34	2.01	−1.75	1.41	1	0	5	21	7	2	se.	St. Louis University
Salem	Dent	1,206	42	66.6	− 2.6	90	7	40	30	45	3.08	−0.80	1.87	1	0	5	16	10	4	s.	E. E. Martin
Sikeston	Scott	318	39	68.8	− 2.3	93	10	41	30	49	3.06	−0.82	1.50	3	0	6	13	15	2	se.	Mrs. Lucy W. Humphreys
Union 1½ mi. SE	Franklin	520	8	66.8	− 2.3	92	7	34	30	29	2.05	−2.14	1.31	1	0	5	15	10	5	sw.	Cornelius Sieges
Vichy 2 mi. NW	Maries	1,125	10	67.1	......	88	7	36	30	11	1.50	......	0.62	22–23	0	5	14	6	10	s.	Civil Aero. Authority
Wappapello Dam	Butler	475	7	69.6	......	92	10	44	30	7	1.50	......	0.50	22–23	0	7	18	9	3	w.	U. S. Engineer Office
Webster Groves	St. Louis	507	0	66.4	......	88	6	35	30	1	1.37	......	0.68	1	0	4	26	3	1	e.	R. W. Lawrie
Weingarten	St. Genevieve	833	5	68.0	......	91	6†	39	30	6	3.10	......	1.35	6–7	0	4	14	11	5	s.	William J. Miller
West Plains	Howell	1,005	9	66.6	− 2.4	95	10	37	24	9	0.91	−2.23	0.30	29	0	5	9	12	9	s.	U. S. Weather Bureau
Willow Springs 500 ft E	Howell	1,238	5	66.4	......	88	5†	37	24	39	1.71	−2.37	0.72	29	0	5	15	5	10	s.	Allen Frazee
Cairo, Ill.	Alexander, Ill.	314	74	71.8	− 0.7	91	10	47	30	75	1.27	−1.62	0.54	21–22	0	8	9	9	12	n.	U. S. Weather Bureau
Division means	**and extremes**	.....	..	**68.0**	**− 2.1**	**97**	**26**	**32**	**24†**	..	**1.95**	**−1.70**	**2.43**	**1**	**0**	**6**	**15**	**9**	**6**	**s.**	
State means	**and extremes**	.....	..	**68.0**	**− 1.3**	**97**	**26**	**32**	**24†**	..	**2.24**	**−1.81**	**5.85**	**27**	**0**	**6**	**17**	**8**	**5**	**s.**	

The departures from normal temperature are computed from the averages of the entire period for stations having 10 or more years of record. Departures of precipitation for stations with 15 years or more of record are computed from a normal or "standard mean", adjusted to a uniform 35-year period; for stations of 10 to 14 years the means for the period of record are used. The normal may be found by adding the departures when minus (−) or subtracting when plus (+). Figures and letters following stations indicate distance in miles and direction of station from the city Post Office, unless otherwise indicated. T. Trace or 0.005 inch or less. ^{a}, ^{b}, ^{c}, etc., number of days missing; for example, ^{b}, indicates two days missing. Italics data interpolated. § Partly interpolated. † And other dates. ‡ Received too late to be included in means and summaries. ^{4} Best available used for stations not equipped with recorders. Post office address of: Altona is Adrian; Crane Mountain is Arcadia; East End is Goodland; Eastwood Lookout is Van Buren; Ellsinore Lookout is Mill Spring; Hailey is Cassville; High Lookout is Birch Tree; Macedonia Lookout is Doniphan; Perry is Center; Wilderness Lookout is Lampe. (C) Airport. ¶ Indicates plus.

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record. Pastures and lespedeza fields made very good growth and a good crop of lespedeza hay was cut and saved. Plowing for the winter wheat crop progressed throughout most of the month, except in local dry areas, where the ground was too dry and hard, at times, for this work. Considerable wheat, rye, and barley, for late pasture, were seeded during the month, but germination was rather slow in some areas because of dry soil. It was too cool and wet the first part of the month for cotton, but during the latter half the crop made good progress; bolls began opening, and picking and ginning were under way at the close of the month. Harvesting of the fall apple crop was in full swing during the latter half of the month. Livestock, as a rule, was in excellent condition and feed and forage supplies were more plentiful than for several years. Water supplies were very low in the drought area in the southwestern corner of the State, during September.—M. R. W.

TEMPERATURE

The monthly mean for the State, 96 stations reporting, was 68.0°, or 1.3° below the 59-year September average. The highest monthly mean was 72.2° at Joplin, and the lowest was 64.0° at near Black. The highest reported was 97° at Crystal City on the 26th, and the lowest was 32° at near Black on the 24th and at Licking on the 29th.

PRECIPITATION

The average for the State, 207 stations reporting, was 2.24 inches, or 1.81 inches less than the 59-year September average. The greatest monthly amount was 9.77 inches at Oregon, and the least was 0.25 inch at Siloam Springs Lookout. The greatest amount reported in 24 hours was 5.85 inches at Oregon, on the 27th. The average number of days with 0.01 inch, or more, was 6. There was no snowfall anywhere in the State.

MISCELLANEOUS PHENOMENA

Auroras.—17th, 18th, 23d.

Floods.—In Mississippi River, at Louisiana, flood stage or above occurred from the 8th to 9th; 13th to 15th; 17th; 20th; 24th to 29th.

Fogs.—Heavy, 2d, 3d, 4th, 9th, 10th, 11th, 12th, 13th, 15th, 17th, 18th, 20th, 21st, 22d, 24th, 30th.

Frosts.—Light, 24th, 29th, 30th; heavy, 30th.

Hail.—Light, on 1st at St. Louis Airport and in parts of St. Louis County and St. Louis City; 2d at Nevada; 9th at Kansas City Airport and Kansas City University; 22d at Maryville; 27th at Bethany. Moderate, on 1st in parts of St. Louis County and St. Louis City. Heavy, on 27th at Oregon and Forest City. (See special storm table).

Windstorms.—1st, 27th. (See special storm table).

ERRATA

March 1946, page 21: Precipitation on 2d, 6th, 7th and 13th, at Bernie, should be *.02*, *.38*, *.07* and *.01*, respectively; total precipitation should be $2.99.

August 1946, page 57: Lowest sea-level pressure at Kansas City Airport should be 29.68; page 59: Line 5, date of 24-hour precipitation at Lakeside should be 13–14th.

Daily Precipitation for September 1946

Stations	Drainage-basins	Day of month																															
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	..	Total
Northern Division																																	
Albany	Grand		.22		.80		.45	.45			.18									.35	.12		1.16						.91				4.64
Amity	do		.10		2.14		.88	T.	T.	T.	T.		T.		.11					.38	.21		.47	T.	T.				.69				4.98
Auxvasse	Missouri	T.	T.								.35										.40		.10	.53					.04				1.42
Bethany	Grand		.15		.70		.24	.13			.10		T.							.30	.28		.50	T.					2.45				4.85
Bowling Green[2]	Mississippi		*	.25							.05										.39			.40						1.27			2.36
Brookfield[2]	Grand			.11	*	.23				*	.53										.80			.70									2.37
Browning 3 mi. NE	do		.07		.24			T.			.49									.05	.75		1.43	.32					.01				3.36
Brunswick[2]	do			.06		.38					.47										.79			1.03						.12			2.85
Canton, Lock No. 20[2]	Mississippi	.05		T.							.14										.53			1.01						.08			1.81
Carrollton	Missouri														T.					T.	.64		1.00	.20						.03			....
Centralia[2]	Mississippi			.03		.01					.14										.46		.39										1.03
Chillicothe[2] (B)	Grand			.10	T.	.72					.28										.54			2.04					.06				3.74
Chillicothe[3] 2 mi ESE (C)	do		.10		.65			T.		.51					T.					.59			2.18					.01					4.04
Columbia[1, 5]	Missouri	.01	.03		.01		T.			.39	.05									.03	.44		.49	T.					.12	T.			1.57
Columbia[5] 9 mi. WNW	do		.03		.05						.52										.51			.53					.50	.03			2.17
Conception	do	.24			.77		.52	.08			.19									.35	.16	.15	.20					*	1.85				4.51
Edgerton	do																																....
Edina[2]	Mississippi					T.			.16		.18										.67			.85									1.86
Elsberry S. C. S.[2]	do	.07	.49								.25										.31			.66						.87			2.65
Fayette	Missouri		.03		.46			.02			.15										.59			.57									1.82
Fulton[2]	do	.13		.01							.28										.42			.65									1.49
Gallatin[2]	Grand			.15		.62	.16				.53					T.					.63		.11	.87	T.				1.08	.12			4.27
Grant City	do		.04		.59		.40	.63		.12	.39		T.							.62	.16		.56					.11	.21				3.83
Hannibal[1] (A)	Mississippi	T.						.19		T.	.50									T.	.52		.32	.02						.06			1.61
Hannibal[2] (B)	do	.05	T.								.44										.60			.40						.05			1.54
Hermann[2]	Missouri	.13							.05		.98										.28			.90									2.34
Kahoka[2]	Mississippi		.20						T.		.10										.80			1.15									2.25
Kansas City Airport[1, 5]	Missouri		.16		.40		.19			.50					.16					.68			.36						T.				2.45
Kansas City University	do		.25		.35		.52	.01	T.	.24	.77				.14					.34	.30		1.97	T.					T.				4.89
Kidder[2]	Grand			.15	.06	.85	.24		T.		.33				.06	T.					.78			1.26					1.48				5.21
King City	Missouri				1.20		.50	.42		.14	.20									.42			.48						.72				4.08
Kirksville	Mississippi		T.		.16			.06			.11										.93		1.10	.37									2.73
LaBelle[2]	do										.20										.58			1.08						.20			2.06
Lawson	Missouri																																....
Linneus	Grand		.09		.28		.02	T.			.75		T.								.65		.81	.52									3.12
Louisiana (A)	Mississippi	.19	.04					.45	.07												.35			.35					.05	.30			1.80
Louisiana[2] (B)	do	.03	.35	.04					.89		.06										.37			.42						.44			2.60
Lucerne[2]	Grand					.47				.10	.08										.60			.80					.88				2.93
Macon[2]	Chariton			.06		.04					1.34										.55			1.24						.11			3.34
Madison[2]	Mississippi					.28					.17										.51			.78									1.74
Martinsburg[2]	Missouri	.05	T.	.01							.15										.44			.48						.76			1.89
Maryville	do		.27		.88		1.28			.24	.10									.55	.06		1.24					1.48	.01				6.11
Memphis[2]	Mississippi					T.			.20		.05										.73			.77									1.75
Mexico[2]	do					.06					.31										.48			.48						.17			1.50
Milan[2]	Grand					.26					.16										.69			1.79					.29				3.19
Moberly[2] 3½ mi. NE	Mississippi		.05			.10					.21										.52			.83						.03			1.74
Monroe City	do	.18	T.								.12										.54			.58						.06			1.48
New Florence[3, 5] 1 mi SE	Missouri	.11	T.							T.	.52										.25		.78	.07						.01			1.74
Oregon	do		.18		1.80		1.18			.18			.03							.55	T.		T.					1.20	4.65				9.77
Palmyra[2]	Mississippi		T.								1.06										.58			.61									2.25
Paris[2]	do			.09		.09					.11										.55			.69						.06			1.59
Perry 1 mile E	do		.03		.05					.35											.45			.40						.25			1.53
Philadelphia	do		T.					.30	.10		.90										.50			.60									2.40
Polo[2]	Missouri			.03		1.33	.18				.43				.04						.68			.77					.39				3.85
St, Charles[2] (A)	do																																....
St. Charles[2] (B)	do	.23	.63	T.							.10										.34	.01		.34									1.65
St. Joseph[1, 5]	do		.14		1.07		.74	.45		.19			.02		.09					.65			.20					1.06	.09				4.70
Salisbury	Chariton		.04		.23						.31										.70		.60	.19						.25			2.32
Saverton, Lock No. 22[2]	Mississippi			.01		.06			.35		.32										.60			.28						.06			1.68
Shelbina	do		.05		T.						.50										.54			.75						.06			1.90
Shelbyville[2]	do			.08							1.28										.53			.93							.09		2.91
Steffenville	do		.01		T.						.73										.53			1.31						.03			2.61
Tarkio[3]	Missouri		.24		2.82	.28	.26	.21		.37			.05							.27			.01					2.50	T.				7.01
Trenton[2]	Grand			.10	.09	.36	.01				.15		T.								.60		.05	.37					.62				2.35
Troy[2]	Mississippi	.20	.71	T.					T.		.32										.30			.63						.05			2.21
Unionville[2]	Chariton					.21			.08		.02										.70			.90					.44				2.35
Vandalia	Mississippi	.05	T.						T.										T.		.65			.47					T.	.53			1.70
Warrenton	do	.08	T.								.49										.30		T.	.88						T.			1.75
Keokuk. Iowa[1]	do	.36	T.				.05			.05	.14									.13	.49		1.34	.03					T.				2.59
Southwestern Division																																	
Altona[2]	Osage		.83	.22		.12					1.52										.54			.70									3.93
Anderson[2] 1½ mi. SW	Neosho			.08							1.02														.50								1.60
Appleton City	Osage	.03	.30		.08						.20				.03						.70		.52										1.86
Ava Ranger Station[2]	White									.40											.10			.50						.80			1.80
Bolivar	Osage	.10		.01							.10										.55			.75									1.51
Boonville[2] (A)	Missouri	.11		.40		.28					.23										.60			.68									2.30
Boonville[2] (B)	do		.10	.02		.24					.23										.55			.65									1.79
Bradleyville[2]	White		.67															.10						.40					.10				1.27
Buffalo[2]	Osage			.16							.11										.29			.82									1.38
Butler	do	.92	.33								1.70										.58			1.06									4.59
Camdenton	do	.94		.02							.08										.35			.70									2.09
Caplinger Mills[2]	do	.20	.21	.03							.09										.39			.77						T.			1.69
Carthage	Neosho			.14							.21										.28			.45					.03				1.11
Cassville	White		T.								.20										.37			.48					T.	T.			1.05
Chadwick[2]	do		.13																		.38			.78									1.29
Clinton[3]	Osage	.50	.12		.23					1.48					T.					.50	.21		.71										3.75
Concordia	Missouri		.05		.25						.17				T.						.52		.10	1.13									2.22
Crocker	Osage	.68		.05				.54		.20											.27			.99									2.73
Eldon	Missouri	.21	.01		T.						.60										.34			.78									1.94
Eldorado Springs	Osage	.18	.08		T.						.03										.56		.62						T.				1.47
Elijah[2]	White		2.16																		.13		.02	.20						.17	T.		2.68
Forsyth[2]	do		.08								.17										.09			.43						T.			0.77
Galena[2]	White		.09	.03							.25										.43			.40									1.20
Granby[2]	do			.10							.22				T.						.35			.41									1.08
Hailey	do										.28										.51			.47									1.26
Harrisonville[2]	Osage			.28		.20					.38				.02	.03					.54			1.92									3.37
Jefferson City[2] (A)	Missouri	.01	T.			T.					.69										.32		T.	.58									1.60
Jefferson City[2] (B)	do	.06				T.					.60										.32	T.		.69									1.67
Joplin[1]	Neosho		.67							.12	.43				.08					.12	.22		.43										2.07
Lakeside[2, 5]	Osage		1.11	.38		T.					.30										.30			.73									2.82

Continued on next page

Daily Precipitation for September 1946—Continued from preceding page

Stations	Drainage-basins	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	..	Total
Southwestern Division—	*Concluded*																																
Lamar[2]	Neosho		T.								.40										.25			.65									1.30
Lebanon[2]	Osage		.23	.09							.07										.15			.63									1.17
Lexington[2]	Missouri					T.		T.													*.60*			*1.35*						*T.*			*1.95*
Lockwood	Osage	.18	.12								.30										.40			.67					T.				1.67
Mansfield[2]	White		.05								.13										.21			.89						.05			1.33
Marshall	Missouri		.02		.65					.18														.85									1.70
Marshfield[2]	White		.37	T.							.10					T.					*	.25		.94						.13			1.79
Mountain Grove[2]	Gasconade										.18										.20			.56						.09			1.03
Mount Vernon[2]	Neosho			.08						.15											.31			.44									0.98
Neosho	....do		.80	.01							.12				.07						.50			.60									2.10
Nevada	Osage	.20	.97		T.			.20			.03				.05						.48			.43						T.			2.36
Osceola[2]	....do		.53	.10		.04					.09										.54			.67									1.97
Ozark[2]	White		.09								.10							T.			.39			.80									1.38
Ozark Beach[2]	....do		.29	.02							.21								T.		.11			.40					.04	.05			1.12
Pierce City[2]	Neosho			.17							.20										.34			.40						T.			1.11
Pineview Lookout[2]	White																																....
Pleasant Hill[2]	Osage			.24		.38					.48			T.	.06	.04					.55			2.58						.04			4.37
Roby	Gasconade	.02		.58							.04										.28			1.28					.02				2.22
St. Thomas[2]. 2¼mi SW	Osage	T.	*.95*	*T.*							.38										.25			.85									§2.43
Saunders Lookout[2]	White																																....
Sedalia	Missouri				.09						.58										.56			.83					.22				2.28
Seligman[2]	Neosho										.50										.37			1.15									2.02
Seymour[2]....3½ mi. NE	White			.98								.16						T.	T.		.15	T.			.69					T.			1.98
Shell Knob[2]...3 mi. SE	....do																																....
Siloam Sprgs Lookout[2]	....do		.14																		*	.11											....
Springfield[1,5]. 4 mi. NW	....do	.11	.06							.01	.05							T.		T.	.35		.67	T.					T.	.02			0.25
Stover[2]	Missouri			.21							.65										.51			.70									1.27
Sugar Camp Lookout[2]	White																																2.07
Sweet Springs	Missouri		T.		.26					.06										T.	.78		1.38	.24									....
Tecumseh[2]. ..¼ mi. W	White																																2.72
Topaz[2]	....do		.32																		.20			.50						.85			....
Vanzant[2]....3¾ mi. SE	....do		.44																		.64			.83						.44			1.87
Waco[2]	Spring			.16						.13						.12					.51		.46										2.35
Warrensburg	Missouri		.11		.17						.48				.03						.48		.10	.88									1.38
Warsaw[2].........(A)	Osage		.75	.03		.10					.97					T.					.56			.40									2.25
Warsaw[2].........(B)	....do	.82									.96										.55			.35									2.81
Wasola[2]	White	.23																			.17			.56									2.68
Waverly[2]	Missouri			.09		.75					.44				T.	T.					.62	T.		1.82	.05					.12			0.96
Waynesville	Gasconade										.15																						3.89
Wilderness Lookout[2]	White					.04			.17		.16										.19			.94									....
																																	1.50
Southeastern Division																																	
Advance[3].....¼ mile W	St. Francis	.39	T.	.33												.28					.06	.03	T.	.03					T.	.10			1.22
Alton.......10 miles SE	Black	2.43																			.11			.15						.89			3.58
Annapolis[2].....7 mi. W	....do		.40	.31																	T.	.20		.49						.12			1.52
Arcadia[2]	St. Francis		1.48	.07							.50										.03	.23		.52						.12			2.95
Belleview[2]	Meramec		1.21																		.07	.19		*	.38					T.			1.85
Bernie[2]	St. Francis		.48	.96	.05	T.											.10					.14	.23	.70						.33			2.99
Birch Tree[2] ...½ mile E	Black																																....
Black...... 9 miles NW	....do	.64		.12																	.29			.37									1.42
Bloomfield[2]	St. Francis		.17	.22																		.06	.18	.55						.20			1.38
Bunker[2]... 4 miles NW	Black	.15	T.	1.16																	.10									.41			1.82
Campbell	St. Francis	.14	.04	.25						.03											T.		.31	.06					.04	.42			1.29
Cape Girardeau....(A)	Mississippi	.13	.47								T.										.10		.06	.68						.01			1.45
Cape Girardeau[2]...(B)	....do		.64																		T.	.09	.06	1.50							T.		2.29
Caruthersville[2]....(A)	....do			1.00													T.					T.	.31	.12					T.	.18	.16		1.77
Caruthersville[2]....(B)	....do			1.05																			.36	.14					.06	.28	T.		1.89
Centerville(1)[2]	Black		.40	.20																	.21			.49						.15			1.45
Centerville(2)[2]	....do		.34	.16																	.11	.08		.36						.11			1.16
Cook Station[2]	Meramec		.50	.20																	.16			.78									1.64
Crane Mountain[2]	St. Francis		.45	.02							.05										.21				.38					.05			1.16
Crystal City	Mississippi	1.56	.02					*	.10		.06										.35			.22					*T.*				2.31
Cuba	Meramec	.30	.33	T.	T.						.14										.20			.42					T.				1.39
Deering[2]	St. Francis			.39																		.49		.30						.35			1.53
De Soto	Mississippi	*	1.08								.01										.29			.34									1.72
Dexter[2]	St. Francis		.40	.07	.04						.04											.03	.04	.22						.38	.05		1.27
Doniphan(1)	Black	.54	.04						T.												.15			.04						1.12			1.89
Doniphan(2)[2]	....do		.52																			.16		.12						1.56			2.36
East End[2]	Meramec		.48																		.30	T.											0.78
Eastwood Lookout[2]	Black																																....
Ellington	....do	1.60		.50							.05										.25			.65					.04	.16			3.25
Ellsinore Lookout[2]	....do		.42																											.17			....
Farmington[2]	St. Francis		1.39					.22			.02										.06	.26		.40									2.35
Fisk[2]	....do			1.74																			*.10*	*.25*						*.70*			§2.79
Fredericktown[2]	....do		1.35								.12											.26	.07	.51									2.31
Gerald	Meramec	.36				.04					.20										.31			.53					*T.*				1.44
Greenville(1)	St. Francis																																....
Greenville[2](2)	....do		.45	.15																	.01	.27		.57						.27	.02		1.74
High Lookout[2]	Black			.10																	*	.15		.60						1.15			2.00
Jackson	Mississippi	.42	.15	T.																	.16		T.	.84						.03			1.60
Jefferson Barracks[2]	Mississippi	*	.55								.17										.41			.33									1.46
Jerome[2]	Gasconade		.96	.74							.32										.86			.34									3.22
Koshkonong[2]	Black		.73	.14																		.15	T.	.15						.15			1.32
Leeper[2]	....do		.92	.78																	T.	.20		.80						.42	*T.*		3.12
Licking[2]	Gasconade		.06	.85																	.25			.91						.15			2.22
Macedonia Lookout[2]	Black		.97														.06					.18		.43						.48			2.12
Marble Hill	Mississippi	.74	.56															T.			.21	.70	.16							.38			2.75
Meramec Park[2]	Meramec	.11	.85								.09										.22			.36									1.63
Morehouse	Mississippi	.05	.15	.46																	.04		.49	.16						.11			1.46
Moselle[2]	Meramec	.27	.62								.12										.62				.44								2.07
New Madrid[2]	Mississippi		.11	.54	.04												.19					.06	.20	.23						.12	T.		1.49
Oates Tower[2]	Black		.44	.07							.10										.14	.10		.29						.07			1.21
Owensville[2]	Gasconade	.07	.03								.11										.30			.94									1.45
Pacific[2]	Meramec	*	*								*										*	.93	T.	*.34*									§1.27
Parma[2]	St. Francis		.20	.65	.03																	T.		.24						.32			1.44
Perryville	Mississippi	1.93									T.		T.								.40			.36									2.69
Pilot Knob[2]... 2 mi. NE	St. Francis																																....
Poplar Bluff[2]	Black		.55	.67													.85				T.	.07	.05	.10						2.09			4.38
Puxico[2]	St. Francis		.15	.27	.01												.03				.01	.12	.30							.21			1.10
Qulin[3]	....do		.26	.13	T.			T.									T.				.02	T.	.10	.31					T.	.91			1.73
Reynolds[2]	Black		1.03	.41																		.17		.37						.10			2.08
Richwoods[2]	Meramec		.79								.03										.19	T.		.26									1.27
Rolla[2]	....do	.10	.20	T.							.14										.15			.98									1.57
Round Spring[2]	Black		1.65																		.14			.26						1.52			3.57

Continued on next page

Daily Precipitation for September 1946—Continued from preceding page

Stations	Drainage-basins	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	..	Total
Southeastern Division —	*Concluded*																																
St. Louis:																																	
City Office[1], [5]	Mississippi	.65	....	....	....	....	....	....	....	T.	.10	....	....	....	....	....	....	....	....	....	.36	....	.40	.01	....	....	....	....	T.	....	....	....	1.52
Airport[3], [5]	Missouri	1.27	T.	....	....	....	....	....	....	....	.11	....	....	....	....	....	T.	....	....	....	.39	....	.44	.01	....	....	....	....	....	....	....	....	2.22
St. Louis Univ.[1], [5]	Mississippi	1.41	....	....	....	....	....	....	....	T.	.13	....	....	....	....	....	....	....	....	....	.32	....	.14	.01	....	....	....	....	T.	....	....	....	2.01
Washington Univ.[2]	...do	.19	1.40	....	....	....	....	....	....	....	.19	....	....	....	....	....	....	....	....	....	.43	....	....	.35	....	....	....	....	....	....	....	....	2.56
Salem[2]	Meramec	....	1.87	.22	....	....	....	....	....	....	T.	....	....	....	....	....	....	....	....	....	.20	....	....	.76	....	....	....	....	....	.03	....	....	3.08
Sikeston[2]	Mississippi	....	.50	1.50	T.	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	T.	.04	.81	.17	....	T.	....	....	....	.04	....	....	3.06
Steelville[2] ...2½ mi. NE	Meramec	.24	....	....	....	....	....	....	....	T.	....	....	....	....	....	....	....	....	....	....	.20	....	....	.40	....	....	....	....	....	....	....	....	0.84
Summersville[2]	Black	....	.34	.02	....	....	....	....	....	....	T.	....	....	....	....	....	....	....	....	.19	....	....	....	.34	....	....	....	....	....	1.29	....	....	2.18
Union[2] ....1½ mi. SE	Meramec	.11	1.20	....	....	....	....	....	....	....	.11	....	....	....	....	....	....	....	....	....	.33	....	....	.30	....	....	....	....	....	....	....	....	2.05
Valley Park[2]	...do	.11	.55	....	....	....	....	....	....	....	.10	....	....	....	....	....	....	....	....	....	.25	.05	....	.36	....	....	....	....	....	....	....	....	1.42
Van Buren[2]	Black	....	2.00	.24	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.17	....	....	....	....	....	....	....	.57	....	....	2.98
Vichy[3] ..... 2 miles NW	Meramec	.51	....	T.	....	....	....	....	....	....	.18	....	....	....	....	....	....	....	....	....	.19	....	.54	.08	....	....	....	....	T.	....	....	....	1.50
Wappapello Dam[2]	St Francis	....	.18	.30	....	....	....	....	....	....	....	....	....	....	....	....	.03	....	....	....	.02	.09	T.	.50	....	....	....	....	....	.38	....	....	1.50
Webster Groves	Mississippi	.68	....	....	....	....	....	....	....	....	.06	....	....	....	....	....	....	....	....	....	.34	....	....	.29	....	....	....	....	....	....	....	....	1.37
Weingarten	...do	1.25	....	....	....	....	....	1.35	....	....	....	....	....	....	....	....	....	....	....	....	.25	....	....	.25	....	....	....	....	....	....	....	....	3.10
West Plains[3]	Black	.28	....	....	....	....	....	....	....	....	T.	....	....	....	....	....	....	T.	T.	....	.13	.04	.16	T.	....	....	....	....	T.	.30	....	....	0.91
Williamsville[2]	...do	T.	36	1.08	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.96	....	....	....	....	....	.62	.03	....	3.05
Willow Springs[2] 500 ft E	White	....	.06	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.22	....	....	.71	....	....	....	....	*T.*	.65	.07	....	1.71
Winona Ranger Sta.[2]	Black	....	.21	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	*	.20	....	.23	....	....	....	....	....	1.22	....	....	1.86
Zalma[2]	Mississippi	....	.39	.33	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.58	....	....	....	....	....	.22	T.	....	1.52
Cairo. Ill.[1], [5]	...do	.10	.01	.46	....	....	....	....	....	....	....	....	....	....	....	T.	....	....	....	....	.01	.37	.20	.10	....	....	....	....	T.	.02	....	....	1.27

Except as otherwise indicated, amounts are for 24 hours ending late in afternoon. [1] Midnight to midnight. [2] Measured in the morning; for the preceding 24 hours. [3] Data for 24 hours ending 12:30 A. M. (C. S. T.) of following day. [5] Recording gage. T. Trace or 0.005 inch or less. * Included in next measurement. // Wind-shield on gage. Italics data interpolated. § Partly interpolated. (A) Record from cooperative station gage. (B) Record from river station gage. (C) Airport. ‡ Received too late to be included in means and extremes.

Daily Evaporation (inches), Mean Temperature (F°), and Wind Movement (miles) for September 1946

(See precipitation data in daily precipitation table)

Station	Data	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	..	Monthly
Columbia...... (Univ. of Mo. Hort. Exp. Sta. 9 mi. WNW.)	Evaporation	.211	.155	.134	.080	.200	.202	.170	.245	.205	.261	.185	.172	.162	.153	.164	.186	.155	.176	.147	.154	.186	.140	.230	.226	.126	.155	.251	.119	.210	.124	....	5.284
	Mean temperature	73	65	64	68	77	78	78	75	74	72	66	65	61	66	64	66	68	66	68	64	62	72	61	64	65	72	73	70	57	50	..	67.4
	Wind movement	59	8	8	10	80	43	20	41	36	69	21	12	8	2	4	16	27	19	29	30	30	66	78	102	9	24	49	5	88	6	..	999
Lakeside ..... (Osage Dam)	Evaporation	.267	.111	.127	.149	.076	.255	.126	.205	.236	.173	.242	.192	.212	.169	.105	.152	.177	.304	.127	.183	.156	.149	.237	.165	.195	.159	.195	.230	.135	.178	....	5.387
	Mean temperature	66	64	70	68	80	78	78	76	77	75	66	66	64	64	66	66	65	64	68	66	63	64	60	62	67	70	70	67	60	54	..	67.6
	Wind movement	32	10	25	17	46	29	12	13	16	25	39	15	30	18	5	10	29	34	32	42	16	38	94	29	36	4	22	28	45	44	..	835
St. Louis ..... (Washington University)	Evaporation	.181	....	.140	.126	.079	.158	.121	.172	.174	.165	.183	.178	.159	.122	.100	.106	.110	.124	.092	.073	.072	.086	.111	.155	.149	.091	.145	.136	.137	.125	....	3.900
	Mean temperature	71	64	68	68	76	79	79	76	76	76	68	64	62	64	70	70	69	68	68	67	62	70	62	62	67	72	72	72	60	54	..	68.4
	Wind movement	31	23	21	11	21	25	14	15	16	28	29	25	36	21	15	12	15	16	17	16	17	16	45	29	27	8	15	17	43	44	..	668

Observations taken at 8:00 a. m. except at 5:00 p. m. at Columbia. For Lakeside and St. Louis (Washington University) descriptions see April 1932 and August 1938 reports, respectively. * Included in next measurement.

Missouri Storms, September 1946

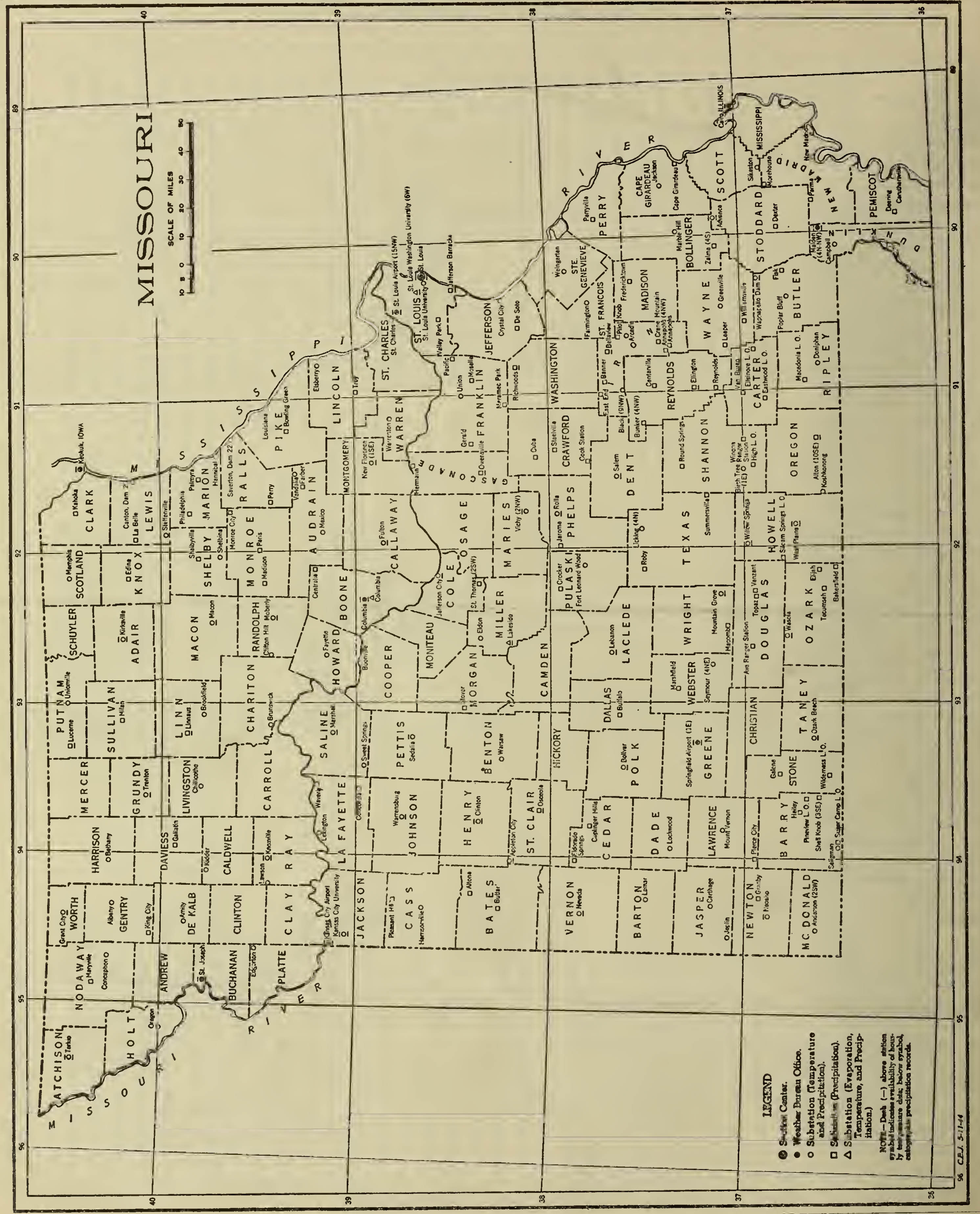
County	Date	Time	Nature of storm	Storm moved from	Width of path (miles)	Length of path (miles)	Loss of life	Property damage (estimated)	Remarks
St. Louis City and County	1	Between 4:00 p.m. and 5:00 p. m.	Wind, hail, electrical and heavy rain	nw.	¼	15	0	$20,000 to $25,000	Storm first struck vicinity of Lambert Field Airport, moving southeastward across the county into the city of St. Louis. Trees were uprooted and broken; power and communication lines and poles broken and service disrupted; roofs and cornices of a few buildings damaged. Two persons suffered minor injuries. Storm was accompanied by heavy rain which flooded streets and basements in low areas as sewers were overtaxed. Light to moderate hail also accompanied the storm with resultant damage estimated at $2,000 to $3,000. Stones were mostly the size of small marbles with some ½ inch in diameter. The southern section of the city suffered the greatest amount of damage. Crop damage was negligible.
Jackson	22	....	Electrical	......	....	....	1	unknown	Lightning struck and killed a 15-year old boy at Slayton Meadows golf course near Kansas City and damaged a church and a school building at Kansas City.
Holt	27	Between 7:40 p.m. and 8:45 p.m.	Wind, hail, electrical and heavy rain	ne.	8	25-30	0	$27,000	Storm struck Forest City and Oregon, with greater part of damage from flood waters caused by torrential rain. At Oregon more than 4 inches fell in an hours time. Crop damage to corn estimated at $3,000. Three persons were reported injured. Some chickens and hogs were drowned. Several bridges washed out. Heavy hail accompanied the storm with largest stones ¾ inch in diameter. Not much damage by wind to trees.

Time used on this tabulation is Central Standard Time, unless otherwise indicated.

Daily Temperatures for September 1946

Stations		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	..	Mean
Northern Division																																	
Brunswick /	Maximum	80	72	80	75	91	87	87	90	90	75	83	72	75	79	82	84	81	82	79	74	80	83	67	78	83	89	87	85	64	69	..	80.1
	Minimum	54	51	50	50	63	67	69	69	65	63	55	53	50	50	53	53	55	58	58	55	50	50	47	47	50	49	59	62	46	39	..	54.7
Chillicothe Airport	Maximum	78	66	82	78	90	87	88	91	87	73	82	70	76	82	83	85	80	83	76	73	80	83	66	79	84	89	87	75	63	70	..	79.5
	Minimum	46	44	44	58	65	66	70	66	62	52	48	50	46	55	51	52	55	54	54	47	46	49	43	52	47	56	62	50	42	35	..	52.2
Columbia	Maximum	83	71	81	76	90	90	90	89	87	80	82	76	76	80	82	83	80	79	81	76	79	84	68	80	85	89	86	85	64	68	..	80.7
	Minimum	61	58	54	62	69	71	71	69	67	56	52	56	51	57	52	56	60	59	60	55	52	54	47	50	50	60	64	53	46	40	..	57.1
Fayette	Maximum	81	71	79	73	88	89	89	87	86	76	82	76	75	79	81	82	77	79	78	76	78	83	76	78	83	87	85	82	65	68	..	79.6
	Minimum	65	54	50	59	66	66	70	65	61	64	50	53	48	51	50	51	52	55	57	54	47	62	45	47	46	56	60	57	45	38	..	54.8
Grant City	Maximum	74	68	79	81	90	90	88	86	83	72	80	74	72	80	80	82	78	78	72	76	79	70	67	78	83	89	83	68	62	67	..	77.6
	Minimum	58	47	48	61	68	66	69	62	65	56	51	50	50	57	54	54	58	57	54	44	50	50	41	48	45	60	65	46	37	38	..	53.6
Hannibal	Maximum	78	67	77	73	90	89	90	89	86	77	80	68	72	75	80	81	79	80	80	74	77	81	65	78	78	88	87	85	60	65	..	78.3
	Minimum	54	47	49	57	64	70	67	69	66	58	59	52	50	53	56	59	56	62	59	55	54	55	46	51	60	59	63	54	44	39	..	56.2
Kansas City Airport	Maximum	82	66	82	81	92	82	89	89	84	74	83	78	82	82	82	84	79	77	72	75	82	80	71	80	86	88	87	77	63	70	..	80.0
	Minimum	57	52	52	68	72	70	75	73	68	60	56	59	55	61	57	58	61	63	55	49	56	52	47	56	53	68	67	51	45	42	..	58.6
Kirksville	Maximum	74	65	74	72	88	85	86	87	84	76	80	73	72	77	80	82	79	81	77	71	76	80	69	77	79	85	83	76	60	64	..	77.1
	Minimum	64	47	48	59	66	68	68	69	64	58	53	51	47	56	53	56	56	56	57	52	50	58	45	51	47	59	63	56	41	40	..	55.3
Lawson	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
Louisiana	Maximum	81	71	79	75	90	90	91	89	88	81	82	72	75	78	83	83	81	81	81	76	77	82	78	79	80	89	87	86	68	69	..	80.7
	Minimum	63	48	45	52	65	69	65	66	62	60	51	50	45	47	48	53	50	52	52	57	45	55	49	47	44	54	56	55	49	34	..	52.9
Macon /	Maximum	77	69	79	75	90	90	89	91	86	75	82	70	76	80	81	84	82	83	80	75	80	83	66	78	84	89	86	85	62	67	..	79.8
	Minimum	55	45	45	49	60	69	69	71	63	60	52	50	47	49	50	53	54	54	56	53	52	55	45	47	46	48	62	58	44	39	..	53.8
Maryville	Maximum	78	66	77	79	90	84	82	86	80	70	81	69	72	79	79	83	79	76	72	75	78	71	64	76	80	88	85	65	60	65	..	76.3
	Minimum	61	51	48	54	67	66	68	67	62	55	52	55	51	58	56	55	58	58	54	40	48	51	40	47	50	59	64	50	37	40	..	54.1
Mexico /	Maximum	81	73	80	75	90	89	90	89	88	78	81	74	76	79	83	84	81	83	83	75	79	84	65	79	85	89	87	85	63	64	..	80.4
	Minimum	57	53	46	46	61	66	69	67	65	65	53	55	46	49	46	51	56	52	53	55	49	55	46	47	48	47	59	59	46	34	..	53.4
Moberly /	Maximum	79	68	77	73	89	88	87	88	85	75	81	72	75	74	81	84	80	81	80	74	76	83	66	78	84	87	86	83	62	66	..	78.7
	Minimum	61	46	46	59	64	69	71	69	65	62	50	50	45	55	56	47	55	54	56	53	51	61	45	48	45	61	64	57	44	36	..	54.8
Oregon	Maximum	78	66	80	79	90	82	82	85	82	71	83	76	71	80	82	83	78	78	73	75	79	70	70	81	79	88	85	68	62	67	..	77.4
	Minimum	62	50	50	50	69	66	70	70	64	58	54	57	52	59	56	58	61	57	54	45	55	52	43	50	56	58	67	51	37	40	..	55.7
St. Charles /	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
St. Joseph	Maximum	77	66	82	81	91	82	88	88	84	73	83	74	77	81	82	83	78	78	67	76	82	76	69	80	87	89	88	69	65	68	..	78.8
	Minimum	56	52	50	66	71	68	70	72	64	59	56	59	54	60	58	59	60	60	52	46	56	50	46	54	51	68	61	49	42	40	..	57.0
Trenton	Maximum	80	67	78	79	91	87	86	91	86	80	84	79	76	82	82	85	83	82	82	75	76	80	82	68	81	84	90	91	71	64	..	80.7
	Minimum	60	47	46	60	60	68	71	69	63	59	53	52	49	49	52	54	56	56	58	46	49	59	44	49	46	58	62	62	41	38	..	54.5
Unionville /	Maximum	74	67	75	79	89	87	86	88	84	74	81	67	74	80	80	84	80	81	78	73	78	82	56	77	80	87	85	68	60	67	..	77.4
	Minimum	56	41	44	52	60	66	67	66	62	55	49	51	47	51	49	52	55	54	57	46	47	54	42	46	44	50	61	60	38	36	..	51.9
Warrenton	Maximum	83	76	80	76	90	90	90	89	88	82	83	74	73	78	82	81	80	80	79	75	77	81	76	78	84	88	87	86	73	68	..	80.9
	Minimum	60	55	48	57	63	67	66	61	63	65	48	50	44	46	46	53	55	61	55	55	45	57	48	45	47	54	54	56	50	33	..	53.6
Keokuk, Iowa	Maximum	73	66	76	77	87	85	86	88	86	72	79	67	71	76	79	81	81	82	79	74	76	82	65	79	78	88	86	79	61	64	..	77.4
	Minimum	55	49	50	58	67	71	68	70	68	58	55	53	50	54	58	61	58	59	58	54	54	56	49	55	51	63	67	53	45	44	..	57.0
Southwestern Division																																	
Clinton	Maximum	79	67	82	74	88	88	91	90	88	79	83	80	79	77	81	82	76	75	82	70	83	86	70	79	86	88	88	85	66	68	..	80.3
	Minimum	59	59	59	65	68	69	70	66	62	58	52	57	52	58	53	55	57	56	56	52	48	51	46	45	50	57	60	55	45	39	..	56.0
Eldon	Maximum	78	69	79	76	88	87	88	86	85	79	81	75	75	75	78	80	75	75	79	74	78	81	77	77	82	86	84	79	71	67	..	78.8
	Minimum	65	56	56	60	66	68	68	63	63	67	55	54	50	54	51	54	58	54	57	54	47	61	46	45	52	58	61	58	50	37	..	56.3
Harrisonville /	Maximum	84	61	80	74	90	86	82	90	86	78	84	83	79	78	82	81	78	73	75	75	81	84	70	78	85	87	87	82	65	63	..	79.4
	Minimum	57	54	52	57	66	66	68	65	60	60	52	54	51	52	53	56	55	58	57	46	49	52	40	42	47	51	62	57	44	43	..	54.2
Jefferson City	Maximum	83	80	82	74	90	88	90	89	87	80	80	75	75	78	79	81	78	76	80	74	78	83	77	78	84	88	86	83	70	68	..	80.5
	Minimum	64	60	56	57	67	68	67	63	63	65	49	58	47	51	48	51	55	54	56	55	46	59	47	46	47	54	63	56	50	35	..	55.1
Joplin	Maximum	86	79	83	85	92	90	90	88	89	84	83	84	85	71	86	81	75	76	80	76	81	88	70	78	84	87	86	80	68	71	..	81.9
	Minimum	71	67	65	71	73	73	74	72	69	66	59	62	63	65	60	61	64	64	62	56	55	55	49	53	58	66	66	62	51	45	..	62.6
Lamar /	Maximum	85	77	83	80	93	91	91	89	90	85	82	83	84	72	84	83	79	72	83	75	83	89	68	80	87	88	89	81	66	70	..	82.1
	Minimum	55	60	59	61	67	68	68	66	62	62	51	51	56	56	53	55	57	62	59	54	49	49	45	45	45	52	62	59	50	41	..	56.0
Lebanon /	Maximum	78	75	82	77	89	90	89	87	85	83	79	80	79	72	81	81	71	71	81	74	79	81	68	78	86	88	85	77	66	69	..	79.4
	Minimum	54	60	59	60	63	67	67	62	63	64	48	50	46	47	49	50	55	52	55	54	43	44	43	44	50	56	59	56	52	34	..	53.5
Lexington /	Maximum	85	86	76	85	80	83	87	89	92	89	79	76	80	82	81	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
	Minimum	62	55	55	55	67	67	70	74	66	64	55	56	50	51	55	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
Marshall	Maximum	80	71	79	78	90	88	88	83	88	82	79	78	73	76	78	81	79	80	80	79	80	84	71	78	83	87	85	84	68	69	..	80.0
	Minimum	68	53	47	61	67	69	71	64	66	61	52	53	49	56	54	54	52	53	58	48	45	62	44	48	50	60	64	60	54	34	..	55.9
Mountain Grove	Maximum	81	75	80	76	87	87	86	86	86	87	80	82	79	77	83	78	75	67	76	73	76	79	78	77	86	84	84	80	69	68	..	79.4
	Minimum	62	62	60	61	63	65	65	62	64	66	51	51	50	52	51	58	58	55	56	56	50	61	48	47	54	59	59	58	51	37	..	56.4
Neosho	Maximum	86	86	88	87	93	92	91	89	90	87	83	85	86	83	86	85	75	78	82	77	82	87	82	80	86	88	87	83	75	72	..	84.4
	Minimum	66	61	63	66	67	65	67	65	60	69	48	50	56	60	51	54	59	58	60	55	45	61	46	42	46	58	60	54	58	36	..	56.7
Nevada	Maximum	83	81	85	79	94	92	94	92	91	87	86	88	88	79	90	87	83	73	84	81	86	92	84	82	89	92	90	88	75	74	..	85.6
	Minimum	69	58	58	67	69	66	69	67	61	65	48	55	54	59	53	55	57	63	58	53	48	64	44	45	51	61	61	57	49	40	..	57.5
Sedalia	Maximum	84	80	81	78	90	87	90	89	86	80	81	77	77	73	80	83	77	77	79	75	80	84	79	77	84	87	86	84	69	68	..	80.7
	Minimum	70	59	54	65	70	69	73	69	67	64	51	57	51	58	54	56	58	57	60	54	50	65	44	47	52	62	64	59	42	36	..	57.9
Springfield . 4 mi. NW	Maximum	80	75	85	77	91	90	89	88	88	84	79	82	84	73	84	80	74	69	80	72	80	84	66	80	87	85	85	76	66	67	..	80.0
	Minimum	65	62	63	66	66	67	68	64	63	59	51	55	53	57	56	57	59	61	60	51	50	53	46	45	50	59	59	59	46	36	..	56.9
Warrensburg	Maximum	..	..	83	79	91	88	89	89	86	81	84	84	80	76	82	83	78	75	79	76	82	85	70	79	85	87	87	82	68	68	..	[b]81.3
	Minimum	..	61	51	66	61	69	72	69	66	62	54	56	51	58	54	56	58	56	59	52	52	..	44	49	53	64	65	60	46	41	..	[b]57.3
Southeastern Division																																	
Arcadia /	Maximum	75	75	80	78	82	86	85	80	85	78	80	78	78	80	83	80	77	73	75	71	79	80	72	80	85	90	85	76	70	70	..	78.9
	Minimum	43	58	57	53	53	59	64	57	57	59	52	50	49	44	44	46	51	53	53	45	40	40	54	38	38	49	49	48	58	38	..	50.0
Birch Tree .. ½ mile E	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
Caruthersville	Maximum	84	84	78	82	87	88	87	88	87	89	85	80	75	79	83	75	74	75	78	75	83	83	79	78	82	85	85	80	75	67	..	81.0
	Minimum	57	65	64	62	63	68	65	66	67	71	61	58	56	57	62	62	61	62	61	64	63	68	63	54	53	56	59	65	62	48	..	61.4
Crystal City	Maximum	80	79	80	83	91	94	93	91	92	87	83	81	78	82	85	83	81	79	79	75	80	84	82	81	85	97	89	86	76	70	..	83.5
	Minimum	59	55	55	53	60	62	67	58	59	66	48	50	49	44	46	52	53	51	52	57	41	59	54	39	45	47	49	55	55	33	..	52.4
Doniphan	Maximum	88	83	84	85	92	95	96	92	86	87	81	78	74	76	78	72	70	68	73	72	84	87	82	84	91	90	90	86	74	70	..	82.3
	Minimum	52	59	63	55	58	60	62	56	61	68	50	50	48	47	54	57	60	55	58	55	53	65	63	37	41	45	47	62	60	40	..	54.7
Farmington	Maximum	72	77	80	79	88	90	89	88	88	85	79	75	73	75	83	80	78	72	76	68	78	81	75	78	85	87	86	79	70	66	..	79.3
	Minimum	56	56	56	54	60	65	64	58	62	67	50	50	46	43	47	53	52	51	51	56	40	59	50	39	46	50	50	57	52	38	..	52.6
Jackson	Maximum	75	82	85	85	89	92	92	95	87	94	85	80	79	84	88	85	82	78	80	74	83	85	77	80	89	88	89	83	74	71	..	83.7
	Minimum	56	58	63	54	61	65	63	60	65	69	50	51	49	46	52	54	55	58	54	57	53	63	58	41	45	49	51	63	57	42	..	55.4
Poplar Bluff	Maximum	82	84	84	84	91	92	93	91	92	95	85	84	82	85	89	81	88	77	78	73	84	84	76	82	88	90	90	84	75	72	..	84.5
	Minimum	52	60	62	57	58	62	62	59	62	69	55	52	52	49	55	55	58	57	55	59	54	66	59	41	44	47	49	62	60	43	..	55.8
Rolla /	Maximum	78	74	80	75	88	88	89	88	87	84	79	77	75	75	81	80	75	71	77	70	78	78	69	77	85	86	85	73	66	67	..	78.5
	Minimum	55	55	56	56	60	66	63	60	61	64	50	53	46	50	48	53	56	50	54	53	42	60	45	45	51	56	55	56	48	39	..	53.5
St. Louis	Maximum	77	75	80	77	88	90	91	90	90	82	80	70	73	77	83	81	80	76	78	72	76	81	68	79	81	88	87	83	64	66	..	79.4
	Minimum	62	58	61	63	66	70	71	71	70	65	59	56	51	57	60	64	61	60	62	60	55	64	55	51	59	62	62	63	52	47	..	60.6
Salem /	Maximum	80	70	81	75	88	89	90	88	88	86	79	79	77	78	83	80	76	71	77	71	79	79	69	78	87	88	85	76	77	67	..	79.7
	Minimum	56	59	59	59	61	65	66	59	63	66	48	50	48	48	46	50	57	51	52	57	42	50	50	44	47	54	53	56	52	40	..	53.6
Sikeston /	Maximum	80	83	82	84	90	90	91	92	86	93	84	83	79	83	87	83	80	80	83	72	80	85	76	81	87	89	89	84	69	71	..	83.2
	Minimum	56	62	63	56	59	66	65	65	67	70	53	54	49	48	55	57	55	59	60	61	59	64	61	46	50	54	55	62	60	41	..	54.4
Union ...... 1½ mi. SE	Maximum	83	76	81	78	90	90	92	90	90	83	82	76	75	78	83	82	81	77	78	74	80	82	77	79	85	90	88	83	71	69	..	81.4
	Minimum	59	58	54	54	60	63	63	59	59	68	48	50	47	44	45	51	52	50	52	57	41	54	52	39	45	57	49	53	53	34	..	52.3
West Plains	Maximum	85	77	80	81	90	92	91	88	92	95	83	84	80	81	84	76	72	69	78	74	78	81	72	81	89	90	88	81	67	71	..	81.7
	Minimum	56	61	60	57	61	59	60	55	58	63	48	50	46	46	53	52	54	52	52	46	40	62	43	37	43	47	45	56	45	39	..	51.5
Cairo, Ill.	Maximum	80	82	82	83	88	89	90	89	86	91	82	79	77	81	85	81	80	81	79	73	84	82	73	80	85	88	86	81	71	68	..	81.9
	Minimum	61	65	64	60	63	70	68	68	71	68	60	60	55	55	62	62	61	66	64	65	64	68	57	53	56	58	60	67	54	47	..	61.7

/ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs. [a], [b], [c], etc., number of days missing, for example, [b] indicates two days missing. Italics data interpolated. § Partly interpolated.



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CLIMATOLOGICAL DATA

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H. F. WAHLGREN
ST. LOUIS, MO.

VOL. L — OCTOBER 1946 — No. 10

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GENERAL SUMMARY

October, as usual in Missouri, was a very pleasant month and favorable for most outdoor activities and field work, except it was too dry over much of the southern half of the State for rapid germination and growth of fall-sown small grains and pastures. During the greater part of the month a fine type of Indian-summer weather prevailed and the mild temperatures resulted in a large saving of fuel and feed supplies.

It was the warmest October since 1941, and averaged 4.3° warmer than the same month a year ago. This mild condition was State-wide, each of the three divisions of the State having temperature averages well above their respective normals. Many sections of the State had not experienced a killing frost by the close of the month, although a number of stations, in scattered areas, reported killing frost on the 12th, which was generally the coldest day of the month; minimum temperatures dropped to the middle 20's or upper 30's, on the latter date. The 6th, 7th, and 8th were, as a rule, the warmest days of the month, with afternoon temperatures registering in the 80's or low 90's. No unusual extremes of temperature occurred anywhere in the State, except locally on the 30th, when maximum temperatures at some places were the highest of record for that particular date. The average number of days with minimum 32°, or lower, was only 1 day, for the State.

Precipitation during October was practically all in the form of rain, snowfall being confined to only a few flurries at a few stations, mostly in the Northern Division; the snow melted as it fell. The distribution of the rainfall was quite irregular, ranging from the State's greatest monthly amount of 6.98 inches, at Brunswick, to only 0.67 inch, at Bunker. The average for the Northern Division was 4.09 inches, or 1.42 inches more than normal; for the Southwestern Division, 2.80 inches, or 0.34 inch less than normal; and for the Southeastern Division, 2.18 inches, or 0.84 inch less than normal. Over much of the southern half of the State, the month was one of the driest Octobers of record until the last two days of the month, when moderate to heavy rainfall brought welcome relief to most of that area.

No flooding occurred in any of the major streams of the State, except locally at Louisiana, on the Mississippi River, where flood stage, or slightly higher, occurred on several days during the month.

Only two damaging storms were reported and these are described elsewhere in this issue.

Preparation for the seeding of the winter wheat crop progressed well during the month, with seeding, for the most part, being delayed until after the fly-free date for the respective localities. In much of the southern half of the State this work was delayed by the dry condition of the soil. Cribbing and feeding of early corn began during the month, but the bulk of the crop remained in the fields awaiting a heavy frost or freeze to dry it out thoroughly before picking. Practically all field crops were sufficiently matured early in the month to escape

(Continued on page 75)

PRESSURE, WIND, HUMIDITY, AND SUNSHINE

Stations	Sea-level pressure, extremes-inches				Wind				Relative humidity				Percentage of sunshine	Degree days
	Highest	Date	Lowest	Date	Average hourly velocity	Maximum velocity ¶	Direction of maximum	Date	12:30 a. m.	6:30 a. m.	12:30 p. m.	6:30 p. m.		
Columbia	30.37*	20	29.46*	17	7.0	20	s.	24	69*	76*	50*	56*	63	152
K. C. Airport	30.34	20	29.45	17	10.9	33	w.	17	65	76	53	54	62	159
St. Joseph	30.31*	20	29.49*	17	8.6	23	nw.	24	76*	83*	53*	62*	55	188
St. Louis	30.38*	20	29.47*	17	12.2	34	sw.	24	73*	77	50	57*	70	117
Springfield	30.33	20	29.53	17	13.3	38	w.	17	72	80	52	60	65	156
Cairo, Ill.	30.33	15	29.57	17	7.3	28	s.	24	..	85	49	..	76	99
....	.....	..	.....	..	....	..	......	..	..	..	..	..	..	....

* Data for Airport station. ¶ For 5-minute period.

COMPARATIVE DATA FOR OCTOBER

Year	Temperature			Precipitation					Number of days			
	Average for State	Highest	Lowest	Average for State	Average, Northern Division	Average, Southwestern Division	Average, Southeastern Division	Snowfall, Average for State	Precip. .01 inch or more	Clear	Partly cloudy	Cloudy
1888	53.6	89	24	2.72	2.02	3.32	2.82	....	6	..	..	..
1889	53.8	91	22	2.32	2.54	2.05	2.38	....	5	..	..	..
1890	54.8	91	20	2.35	3.01	2.70	1.33	....	7	..	..	..
1891	55.7	92	20	1.05	1.31	1.09	0.76	....	5	..	..	..
1892	57.5	95	16	2.40	2.04	2.78	2.39	0	5	16	7	8
1893	56.7	95	16	1.12	0.48	0.91	1.97	....	3	20	8	3
1894	57.6	94	18	1.82	2.09	1.26	2.12	T.	6	17	8	6
1895	51.2	89	14	0.42	0.26	0.34	0.66	T.	2	21	6	4
1896	54.1	90	19	2.48	2.70	2.43	2.32	0	5	19	6	6
1897	62.5	99	23	0.74	0.55	0.81	0.87	0	3	22	6	3
1898	53.5	95	19	4.35	4.26	4.18	4.61	1.4	8	11	7	13
1899	62.4	100	24	3.16	1.98	3.58	3.93	0	5	20	6	5
1900	62.4	92	25	3.96	5.23	3.78	2.86	0	7	17	7	7
1901	60.1	96	24	1.69	1.55	1.63	1.89	0	6	18	8	5
1902	59.5	88	23	2.41	2.90	2.30	2.02	0	5	21	5	5
1903	57.3	90	19	3.06	2.19	3.76	3.22	0	6	19	6	6
1904	57.6	90	19	0.88	0.93	0.81	0.90	0	3	20	7	4
1905	55.1	90	20	4.85	3.67	5.78	5.09	0.3	10	15	7	9
1906	56.3	94	17	1.06	0.66	0.89	1.62	0	5	17	6	8
1907	56.7	94	18	2.93	2.02	3.62	3.14	0	7	17	6	8
1908	56.3	92	21	2.39	3.60	3.11	0.45	0.8	5	18	6	7
1909	57.2	96	20	2.72	3.45	2.99	1.71	T.	6	19	5	7
1910	59.4	94	15	2.97	0.97	1.76	6.18	0	5	22	4	5
1911	56.9	96	25	3.16	3.81	3.31	2.36	0.2	8	11	7	13
1912	59.1	97	21	3.78	3.87	4.29	3.17	0.7	6	20	5	6
1913	54.7	93	11	4.65	3.68	3.92	6.36	3.3	9	15	6	10
1914	59.2	88	19	4.59	4.32	4.28	5.17	0	7	14	6	11
1915	59.8	95	22	1.22	0.77	1.61	1.29	0	3	23	5	3
1916	58.0	95	20	2.12	2.53	2.03	1.79	0.3	6	18	5	8
1917	49.8	93	12	1.15	1.25	0.77	1.43	0.2	6	16	8	7
1918	60.6	95	28	3.45	3.02	3.51	3.82	0	7	14	6	11
1919	58.4	98	17	7.07	3.49	8.48	9.23	0	11	10	7	14
1920	61.3	93	18	3.14	1.94	3.76	3.73	T	7	17	6	8
1921	57.9	92	24	2.15	2.78	2.20	1.47	0	5	21	5	5
1922	59.9	97	18	2.04	2.00	1.84	2.28	0	5	20	5	6
1923	53.0	89	17	3.55	2.40	4.40	3.84	0.1	9	15	5	11
1924	61.8	92	21	1.22	1.54	1.59	0.52	0	4	22	5	4
1925	48.6	92	− 3	4.98	3.70	4.12	7.12	2.4	10	8	8	15
1926	57.3	93	21	4.73	4.43	4.98	4.77	0	9	14	6	11
1927	60.9	93	26	4.59	5.49	5.33	2.96	0	5	22	5	4
1928	60.9	94	22	3.82	3.85	2.91	4.71	0	8	15	8	8
1929	57.2	91	23	5.36	6.30	5.97	3.80	T.	10	15	6	10
1930	55.3	92	11	3.09	2.43	3.68	3.17	T.	6	16	6	9
1931	61.7	95	27	3.37	3.89	3.99	2.23	0	8	15	7	9
1932	55.7	90	22	3.54	2.79	3.19	4.65	0	5	18	5	8
1933	56.4	86	23	2.90	1.68	3.78	3.25	0	7	17	8	6
1934	61.1	90	24	2.50	2.22	3.02	2.25	0	4	22	5	4
1935	57.1	90	21	3.47	2.04	4.42	3.94	T.	10	12	7	12
1936	56.7	89	20	3.55	2.45	3.76	4.43	T.	8	16	6	9
1937	56.3	98	15	2.44	1.57	1.89	3.86	T	7	16	6	9
1938	63.9	99	19	1.23	1.11	1.50	1.09	0	3	24	4	3
1939	61.1	100	19	1.89	1.39	1.92	2.35	0	6	21	7	3
1940	63.0	94	28	1.73	2.31	1.65	1.23	0	6	20	6	5
1941	61.6	92	20	10.14	10.41	11.57	8.45	T.	17	8	8	15
1942	58.0	90	13	2.97	1.83	3.71	3.36	0	6	17	6	8
1943	56.3	90	19	3.23	2.56	4.27	2.85	0	7	18	6	7
1944	59.6	92	25	1.68	1.73	2.34	0.96	0	4	22	5	4
1945	56.8	85	23	2.18	1.19	2.53	2.83	0	6	17	7	7
1946	61.1	92	24	3.02	4.09	2.80	2.18	0	6	16	7	8
....	....	..	....	....	....	....	....	....	..	..	..	..
....	....	..	....	....	....	....	....	....	..	..	..	..
Period	**57.8**	**100**	**− 3**	**2.94**	**2.67**	**3.14**	**3.02**	**0.2**	**6**	**17**	**6**	**8**

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Climatological Data for October 1946

Stations	Counties	Elevation, feet	Temperature, in degrees Fahr.							Precipitation, in inches						Number of days				Prevailing direction of wind	Observers
			Length of record, years	Mean	Departure from the normal	Highest	Date	Lowest	Date	Length of record, years	Total	Departure from the normal	Greatest in 24 hours	Date	Total snowfall, unmelted	With precip., .01 inch or more	Clear	Partly cloudy	Cloudy		
Northern Division																					
Albany	Gentry	930	5	58.0[b]	......	82[c]	5†	24[b]	12	17	1.60	−1.19	0.88	17	0	3	11[c]	14[c]	3[c]	s.	Curtis E. Grace
Amity	DeKalb	1,007	0	59.6	......	82	5†	29	12	11	2.49	+0.36	1.63	17	0	5	12	12	7	sw.	O. M. Colhour
Bethany	Harrison	916	51	58.1[d]	+ 3.3	80[g]	23	25	12	53	2.39	−0.53	1.13	17	0	4	16	8	7	se.	B. A. McGregor
Brookfield	Linn	767	5	60.6	......	88	7	30	12	5	3.53	......	1.40	18	0	7	17	5	9	s.	G. F. Breen
Brunswick	Chariton	652	65	60.0	+ 4.7	86	6†	34	12	67	6.98	+3.98	4.73	17–18	0	8	16	4	10	se.	O. K. Benecke
Canton, Lock & Dam 20	Lewis	488	8	60.6	......	83	6	33	12	16	3.65	+1.39	2.10	17–18	0	6	14	10	7	sw.	Lockmaster
Carrollton	Carroll	754	0	61.0	......	85	7	32	12	0	5.05	......	3.28	16–17	0	9	17	8	6	se.	Harold E. Finley
Chillicothe 2 mi ESE(C)	Livingston	771	37	59.0	+ 4.0	86	7	27	12	40	3.04	−0.10	1.88	17	0	7	13	8	10	s.	Civil Areo. Authority
Columbia	Boone	740	56	62.0	+ 5.1	87	7	34	12	56	5.85	+3.24	2.75	31–1	T.	9	15	6	10	s.	U. S. Weather Bureau
Conception	Nodaway	1,108	57	59.2	+ 3.8	82	4†	27	12	62	1.62	−1.26	0.82	17	T.	4	6	17	8	s.	Fr. Adelhelm Hess
Edgerton	Platte	856	26	....	......	..	..	..	..	43	....	......	....	..	.	..	..	..	..	......	W. A. Foster
Elsberry	Lincoln	449	15	59.4	+ 1.9	86	7†	30	12	15	4.05	+1.54	1.45	17–18	0	7	19	1	11	se.	Soil Conservation Service
Fayette	Howard	760	66	60.3	+ 3.9	86	7†	32	12	63	5.09	+2.20	2.50	17	0	10	20	2	9	s.	Irvin E. Schnell
Fulton	Callaway	818	58	60.2	+ 2.8	85	7	32	12	54	4.18	+0.76	1.48	17	0	7	20	2	9	s.	Frank E. Hillgartner
Grant City	Worth	1,134	42	59.8	+ 4.7	81	4†	28	12	54	2.19	−0.85	1 02	17	0	4	14	8	9	s.	J. Homer Korn
Hannibal	Marion	759	54	60.6	+ 4.6	85	6	31	12	62	6.34	+3.95	4.00	17	0	7	16	6	9	s.	Hannibal Water Dept.
Kansas City Airport	Jackson	741	57	62.2	+ 4.5	86	6	37	12	57	3.83	+1.14	2.03	16–17	0	7	11	10	10	s.	U. S. Weather Bureau
Kansas City Univ.	Jackson	908	8	61.6	......	84	4†	33	12	8	5.48	......	2.91	16–17	0	6	12	12	7	s.	University of Kansas City
Kidder	Caldwell	1,020	54	59.2	+ 3.4	83	6	30	12	58	3.62	+0.55	1.68	17	0	7	17	3	11	s.	Mrs. Geraldine Terry
Kirksville	Adair	969	57	59.2	+ 4.5	82	6†	29	12	64	3.03	−0.13	2.20	17	0	7	22	5	4	s.	Dr. Willis J. Bray
Lawson	Ray	1,070	8	....	......	..	..	..	..	8	....	......	....	..	.	..	..	..	..	......	Elmer E. Lamb
Louisiana	Pike	469	52	60.4	+ 4.2	87	6†	29	12	65	4.76	+1.48	1.70	17	0	9	19	5	7	s.	Stark Bro's Nurseries
Macon	Macon	875	47	58.9	+ 2.6	86	7	30	12	53	6.40	+3.51	3.81	17	0	8	12	11	8	se.	John W. Atwell
Maryville	Nodaway	1,169	56	57.9	+ 4.4	80	4†	26	12	52	1.91	−1.06	0.98	17	T.	6	12	10	9	nw.	R. B. Montomery
Memphis	Scotland	787	7	59.1	......	87	7†	29	12	16	2.26	+0.33	1.24	16–17	0	4	13	9	9	sw.	John W. Alexander
Mexico	Audrain	800	57	60.3	+ 4.0	87	8	32	12	68	5.49	+2.42	1.91	17–18	0	6	17	4	10	sw.	Darrence W. Stuart
Moberly .....3½ mi. NE	Randolph	860	9	....	......	..	..	..	..	9	....	......	....	..	.	..	..	..	..	......	F. W. Bell
New Florence. 1 mi SE	Montgomery	885	3	59.2	......	87	8	30	12	4	6.18	......	3.32	30–31	T.	7	14	3	14	s.	U. S. Weather Bureau
Oregon	Holt	1,048	90	59.8	+ 4.7	82	5	29	12	90	2.28	−0.47	1.12	17	0	6	14	8	9	s.	James M. Curry
Polo	Caldwell	1,000	0	59.2	......	84	6	32	12	0	4.04	......	2.03	18	0	8	21	6	4	s.	F. B. Albright
St. Charles	St. Charles	520	58	....	......	..	..	..	..	68	....	......	....	..	.	..	..	..	..	......	....
St. Joseph	Buchanan	957	36	60.4	+ 4.4	83	5	35	12	74	2.66	−0.83	1.53	17	0	6	12	11	8	s.	U. S. Weather Bureau
Salisbury	Chariton	723	0	60.8	......	88	7	33	12	0	5.34	......	2.95	17	0	10	19	5	7	s.	David H. Robertson
Saverton, Lock No. 22.	Ralls	472	8	60.6	......	83	6	33	12	8	5.63	......	2.20	17–18	0	7	23	1	7	s	Lockmaster
Shelbina	Shelby	779	5	60.2	......	87	6†	29	12	53	5.37	+2.76	3.20	16–17	0	8	20	4	7	w.	Guyman Hatcher
Steffenville	Lewis	650	48	59.6	+ 2.2	87	7	30	12	53	4.40	+1.67	2.63	17	0	9	19	4	8	s.	Mrs. Fannie V. Gross
Tarkio	Atchison	916	43	56.6	+ 1.8	82	5	26	12	52	2.62	−0.19	1.14	17	T.	6	9	15	7	s.	C. A. A. Station
Trenton	Grundy	822	50	60.4	+ 4.5	86	8	29	12	51	3.56	+0.43	1.44	24	0	8	15	10	6	s.	W. H. Estes
Unionville	Putnam	1,062	53	57.6	+ 2.4	83	6†	32	12†	53	2.59	−0.74	1.15	17	0	7	15	12	4	s.	Mrs. Dora A. Wilson
Vandalia	Audrain	766	2	60.0	......	88	7	29	12	7	5.05	......	....	..	0	7	22	6	3	n.	Mrs. Naomi K. Stoutz
Warrenton	Warren	816	64	61.4	+ 5.4	86	6†	28	12	56	4 39	+0.95	2.14	30–31	T.	8	18	8	5	se.	W. T. Zimmerman
Keokuk, Iowa	Lee, Ia.	574	74	61.2	+ 5.8	84	6	36	12	74	2.94	+0.68	1.76	17–18	0	7	15	13	3	s.	U. S. Weather Bureau
Division means	**and extremes**	.....	..	**59.9**	**+ 3.9**	**86**	**7**	**24**	**12**	..	**4.09**	**+1.42**	**4.73**	**17–18**	**0**	**7**	**16**	**7**	**8**	**s.**	
Southwestern Division																					
Anderson ...1½ mi SW	McDonald	1,000	42	59.4[b]	+ 0.7	89	7	24[d]	12†	47	1.89	−2.00	0.91	23–24	0	5	17	7	7	sw.	Samuel G. Chamberlain
Appleton City	St. Clair	813	51	61.8	+ 2.9	88	7	29	12	54	3.12	+0.16	1.83	30–31	0	6	16	10	5	s.	Rolla Brown
Bolivar	Polk	1,071	43	63.8	+ 5.2	89	7	35	12	51	1.55	−1.70	1.06	31	0	6	17	7	7	sw.	Southwest Baptist College
Boonville	Cooper	650	8	60.6	......	86	7	33	12†	69	3.72	+0.50	1.77	30–31	0	6	13	8	10	s.	Boonville Water Dept.
Butler	Bates	865	0	61.4	......	86	8†	29	12	5	3.29	......	1.81	30–31	0	7	10	12	9	s.	F. S. Wolf
Camdenton	Pulaski	940	0	64.5	......	87	7	35	12	0	3.89	......	2.75	31	T.	8	18	8	5	s.	L. C. Scott
Carthage	Jasper	962	12	63.3	......	90	7	33	12	22	1.77	... ..	0.81	23–24	0	5	11	17	3	sw.	Carthage W. and E. Plant
Clinton	Henry	786	53	61.7	+ 2.8	87	6†	34	12	59	3.33	−0.12	2.21	31	0	7	13	12	6	s.	U. S. Weather Bureau
Eldon	Miller	934	51	62.2	+ 4.8	85	7	35	12	47	4.34	+0.64	2.77	30–31	0	8	16	9	6	s.	Ira M. Wilson
Harrisonville	Cass	904	68	60.6	+ 4.5	86	7	30	12	71	5.45	+2.48	3 07	17	0	11	16	7	8	se.	Jeffrey B. Patterson
Jefferson City	Cole	557	56	61.0	+ 4.2	87	7	31	12	64	3.32	−0.05	1.67	30	0	7	18[a]	7[a]	5[a]	s.	K. W. O. S. Radio Farm
Joplin	Jasper	1,008	24	65.0	+ 4.8	88	8	40	12	41	2.49	− 1.06	0.71	17	0	6	10	14	7	s.	Empire Dist. Electric Co.
Lakeside	Miller	595	15	61.5	+ 1.7	88	6	35	12	15	2 18	− 0.63	1 62	30–31	0	8	13	10	8	se.	W. S. Frame
Lamar	Barton	980	58	62.1	+ 3.2	87	4†	33	12	65	1.78	−1.83	0.70	31	0	4	20	5	6	sw.	Mrs. Marie Mann
Lebanon	Laclede	1,265	58	62.6	+ 4.9	88	7	31	12	59	1.28	−2.49	0.48	24	0	6	15	10	6	sw.	Mrs. Rosa E. Montelius
Lexington	Lafayette	688	61	....	......	85[m]	24	..	..	62	4.35§	+1.32	1.80	17	0	7	13[m]	3[m]	2[m]	......	Tilton Davis
Lockwood	Dade	1,078	40	64.9	+ 6.2	90	7	36	12	50	1.01	−2.89	0.50	23–24	0	6	16	11	4	sw.	Hubert A. Nieman
Marshall	Saline	779	59	61.4	+ 4.8	86	7	34	12	56	5.17	+2.04	2.93	17	0	6	20	6	5	s.	Thomas A. Reid
Mountain Grove	Wright	1,463	45	62 0	+ 4.4	84	7†	33	12	49	2.61	−0.85	1.46	23–24	0	6	16	10	5	se.	Mo. Fruit Exp. Station
Mount Vernon	Lawrence	1,174	34	63.8	+ 5.2	90	7†	32	12	46	1.41	−1.97	1.25	23–24	0	5	17	9	5	sw.	James C. Williamson
Neosho	Newton	1,011	59	63.1	+ 3.9	87	7†	29	12	63	1.05	−2.64	0.81	23–24	0	5	15	11	5	s.	U. S. Fisheries Station
Nevada	Vernon	862	53	63.7	+ 6 1	92	7	32	12	54	3.49	+0.42	2.85	31	0	5	19	6	6	sw.	Henry Kraft
Ozark Beach	Taney	700	6	62.2	......	91	8	30	12	21	2.45	− 1.42	0.90	18	0	7	12	15	4	sw.	Empire District Elec. Co.
Sedalia	Pettis	910	33	62.7	+ 5.0	86	7	33	12	35	5.02	+2.34	2.30	17	0	9	17	5	9	sw	Dr. J. E. Cannaday
Seligman	Barry	1,542	45	62.6	+ 3.6	88	4	31	12	43	2.27	− 1.19	1.73	23–24	0	3	18	8	5	sw.	Floyd E. Fawver
Seymour. 3½ miles NE	Webster	1,642	40	60.2	+ 2.8	85	8	30	12	40	2.26	−1.22	1.16	24	0	4	19	6	6	s.	Ira H. Hailey
Springfield...4 mi. NW	Greene	1,301	58	61.6	+ 4.0	86	7	34	12	58	1 22	−1.83	0.91	23–24	0	6	10	8	13	se.	U. S. Weather Bureau
Sweet Springs	Saline	700	5	61.2	......	86	6†	31	12	5	5 35	......	2.79	17	0	7	11[a]	16[a]	3[a]	s.	H. F. Nelson
Warrensburg	Johnson	878	59	62.9	+ 4.9	88	8	34	12	66	5.08	+2.06	3.11	17	0	6	19	7	5	s.	Central Teachers College
Warsaw	Benton	687	45	62 8	+ 3.8	87	6†	33	12	51	2.51	−1.29	1.20	30–31	0	8	18	7	6	s.	Dora B. Johnson
Wasola	Ozark	1,294	5	63.5	......	84	7†	30	12	6	3.67	......	0 96	23–24	0	5	18	9	4	s.	A. W. Pinckney
Waynesville	Pulaski	805	0	60.6[a]	......	89[a]	9	28[a]	12	0	2.42	......	0 52	10	0	6	23	6	1	s.	Jesse H. Barlow
Division means	**and extremes**	.....	..	**62.3**	**+ 4.1**	**92**	**7**	**24**	**12†**	..	**2.60**	**− 0.34**	**3.31**	**31**	**0**	**6**	**16**	**9**	**6**	**s.**	
Southeastern Division																					
Advance.... ¼ mile W	Stoddard	354	9	59.5	+ 0.3	89	6	28	13	9	1.57	−1.04	1.08	24	0	7	16	3	12	s.	U. S. Weather Bureau
Arcadia	Iron	926	65	58.2	+ 2.2	88	8	28	12	68	1.25	−2.20	0.58	17–18	0	4	16	4	11	w.	Arcadia College
Birch Tree... ½ mile E	Shannon	1,000	51	....	......	..	..	..	..	52	....	......	....	..	.	..	..	..	..	......	R. C. Moger
Black.......9 miles NW	Iron	1,000	53	57.6	+ 1.7	86	7†	25	12†	53	1.25	−2.31	0.43	17–18†	0	5	17[a]	5[a]	8[a]	sw.	M. L. Volner
Campbell	Dunklin	314	20	62.5[j]	+ 2.4	87[j]	6	35[j]	12	20	2.30	−0.80	1.82	24–25	0	8	18[f]	4[f]	3[f]	s	Mrs. Ruth Christian
Cape Girardeau	Cape Girardeau	347	1	63 9	......	84	8	40	12	46	1.92	−1.38	1.36	24–25	0	6	17	8	6	s.	Dr. Robert Martin
Caruthersville	Pemiscot	265	50	63.0	+ 0.8	83	7†	39	12†	54	2 75	−0.61	2.40	24–25	0	5	16	6	9	se.	Victor T. Malloure
Crystal City	Jefferson	420	12	61.4	+ 3.0	90	6	29	12	12	1.60	−1.17	0.75	31	0	6	16	5	10	se.	Richard K. Ragland
Doniphan	Ripley	344	42	60.4	+ 1.9	89	8	29	12†	42	2.56	−0.50	1.20	23–24	0	6	20	4	7	ne.	Boyce Lackey
Farmington	St. Francois	896	35	60.1	+ 3.3	87	6	30	12	49	0.71	−2.73	0.35	17	0	4	14	3	14	s.	F. M. Karsch
Greenville	Wayne	460	37	....	......	..	..	..	..	39	....	......	....	..	.	..	..	..	..	......	Beuford Shoemake
Jackson	Cape Girardeau	428	55	61.0	+ 3.1	90	6	31	12†	56	2.69	−0.83	1.78	24	0	6	16	8	7	s.	Danny Siebert
Koshkonong	Oregon	958	45	59.5	− 0.1	89	9	25	12	46	1.74	−1.48	0.74	24	0	5	18	6	7	se.	Mrs. Genevieve T. Smith
Licking...... 4 miles N	Texas	1,170	9	59.6	+ 0.8	84	7†	29	12	9	1.34	−1.97	0.73	21–22	0	3	14[a]	7[a]	9	s.	Fern E. Austin
Marble Hill	Bollinger	532	51	60.9	+ 2.7	91	6	28	13	53	2.48	−0.94	1.74	24	0	5	17	6	8	s.	R. A. DeWitt

Continued on next page

Climatological Data for October 1946—Continued from preceding page

Stations	Counties	Elevation, feet	Temperature, in degrees, Fahr.							Precipitation, in inches						Number of days				Prevailing direction of wind	Observers
			Length of record, years	Mean	Departure from the normal	Highest	Date	Lowest	Date	Length of record, years	Total	Departure from the normal	Greatest in 24 hours [4]	Date	Total snowfall, unmelted	With precip., .01 inch or more	Clear	Partly cloudy	Cloudy		
Southeastern Division—	*Concluded*																				
Poplar Bluff	Butler	339	41	61.2	+ 1.1	90	8	32	13	42	4.33	+0.67	2.41	24	0	5	17	3	11	s.	Osmon M. Richardson
Rolla	Phelps	1,202	46	61.2	+ 4.7	89	7	33	12	62	1.57	−1.89	0.72	17	0	6	15	12	4	sw.	Rolla School of Mines
St. Louis:																					
City Office		465	109	63.3	+ 4.5	88	6	38	12	109	3.45	+0.73	3.09	31–1	0	5	15	5	11	s.	**Section Center**
St. Louis Airport	St. Louis	556	9	61.7	+ 4.4	88	6	35	12	15	4.14	+0.72	3.71	31–1	0	7	14	2	15	s	U. S. Weather Bureau
St. Louis University	St. Louis City	578	34	63.0	+ 4.4	86	7	36	12	34	3.39	+0.23	2.81	31	0	5	18	7	6	se.	St. Louis University
Salem	Dent	1,206	42	60.8	+ 3.2	88	9	32	12	45	1.67	−1.95	0.60	24	0	5	15	13	3	s.	E. E. Martin
Sikeston	Scott	318	39	61.7	+ 2.4	91	9	34	12	49	2.44	−0.83	1.84	24	0	5	18	7	6	s.	Mrs. Lucy W. Humphreys
Union 1½ mi. SE	Franklin	520	8	60.6	+ 1.1	88	6†	29	12	29	2.19	−1.29	1.63	31	0	6	19	3	9	s.	Cornelius Sieges
Vichy 2 mi. NW	Maries	1,125	10	61.2	......	86	7	32	12	11	3.98	......	2.78	30–31	0	5	12	6	13	s.	Civil Aero. Authority
Wappapello Dam	Butler	475	7	62.0	......	88	8	36	12	7	3.36	......	1.79	24	0	6	17	6	8	s.	U. S. Engineer Office
Webster Groves	St. Louis	507	0	60.0	......	84	7†	33	12	1	2.32	......	1.83	30–31	0	6	17	5	9	se.	R. W. Lawrie
Weingarten	St. Genevieve	833	5	62.2	......	89	6	32	12	6	2.07	......	0.88	24	0	4	18	9	4	s.	William J. Miller
West Plains	Howell	1,005	9	59.2	+ 0.3	89	10	26	12	9	1.75	−1.47	0.86	23–24	0	6	11	8	12	s	U. S. Weather Bureau
Willow Springs 500 ft E	Howell	1,238	5	60.0	......	85	9	27	12	39	2.09	−1.23	1.14	17	0	4	15	8	8	s.	Allen Frazee
Cairo, Ill.	Alexander, Ill.	314	74	63.8	+ 3.3	86	6	42	12	75	2.69	−0.07	2.16	24	0	7	16	4	11	s.	U. S. Weather Bureau
Division means	**and extremes**	.....	..	**61.1**	**+ 2.3**	**91**	**6†**	**25**	**12†**	..	**2.18**	**−0.84**	**4.01**	**31**	**0**	**5**	**16**	**6**	**9**	**s.**	
State means	**and extremes**	.....	..	**61.1**	**+ 3.3**	**92**	**7**	**24**	**12†**	..	**3.02**	**+0.08**	**4.73**	**17–18**	**0**	**6**	**16**	**7**	**8**	**s.**	

The departures from normal temperature are computed from the averages of the entire period for stations having 10 or more years of record. Departures of precipitation for stations with 15 years or more of record are computed from a normal or "standard mean", adjusted to a uniform 35-year period; for stations of 10 to 14 years the means for the period of record are used. The normal may be found by adding the departures when minus (−) or subtracting when plus (+). Figures and letters following stations indicate distance in miles and direction of station from the city Post Office, unless otherwise indicated. T. Trace or 0.005 inch or less. ^{a}, ^{b}, ^{c}, etc., number of days missing; for example, ^{b}, indicates two days missing. Italics data interpolated. § Partly interpolated. † And other dates. ‡ Received too late to be included in means and summaries. [4] Best available used for stations not equipped with recorders. Post office address of: Altona is Adrian; Crane Mountain is Arcadia; East End is Goodland; Eastwood Lookout is Van Buren; Ellsinore Lookout is Mill Spring; Hailey is Cassville; High Lookout is Birch Tree; Macedonia Lookout is Doniphan; Perry is Center; Wilderness Lookout is Lampe. (C) Airport. ¶ Indicates plus.

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damage by frost or freezing temperatures. Cutting of a large crop of soybeans was completed and combining was under way the latter part of the month, under favorable weather conditions. Cotton in the southeastern counties was being picked during the month, but bolls were slow in opening and a good frost was needed to hasten opening. Pastures were in good condition over most of the northern half of the State throughout most of October, but general soaking rains were badly needed over most of the southern half to revive them and to start growth, as well as to replenish a low water supply in some areas. This much needed moisture was adequately supplied over the greater part of the dry area the last two days of this month and the first few days of November. Livestock were in good condition, as a rule, at the close of the month and supplies of feed and forage were more plentiful then in several years.—M. R. W.

TEMPERATURE

The monthly mean for the State, 97 stations reporting, was 61.1°, or 3.3° warmer than the 59-year October average. The highest monthly mean was 65.0° at Joplin, and the lowest was 56.6° at Tarkio. The highest reported was 92° at Nevada on the 7th, and the lowest 24° at Albany on the 12th and at Anderson on the 12th and 13th.

PRECIPITATION

The average for the State, 208 stations reporting, was 3.02 inches, or 0.08 inch more than the 59-year October average. The greatest monthly amount was 6.98 inches at Brunswick, and the least 0.67 inch at Bunker. The greatest amount reported in 24 hours was 4.73 inches at Brunswick, on the 17-18th. The average number of days with 0.01 inch, or more, was 6.

Only a trace of snowfall occurred, with only seven stations reporting that amount.

MISCELLANEOUS PHENOMENA

Aurora.—26th.

Earthquake.—Moderate on 7th.

Flood.—In Mississippi River, at Louisiana, flood stage, or above, occurred from the 1st to 5th; on the 8th; 13th to 18th; 22d and continued into November.

Fogs.—Heavy, 7th, 9th, 13th, 14th, 17th, 19th, 20th, 21st, 22d, 23d, 25th, 28th, 29th, 31st.

Frosts.—Light, 1st, 2d, 3d, 8th, 11th, 12th, 13th, 14th, 15th, 18th, 19th, 20th, 21st, 25th, 26th, 27th. Heavy, 1st, 2d, 3d, 12th, 13th. Killing, 1st, 11th, 12th.

Hail.—Light, 17th at Brunswick and five miles south of Appleton City; 24th at Eastwood Lookout and Joplin. Moderate, 10th and 21st at Altona.

Sleet.—11th, 12th, 17th.

Tornado.—17th. (See special storm table).

Windstorms.—17th. (See special storm table).

Daily Precipitation for October 1946

Stations	Drainage-basins	Day of month																															Total
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Northern Division																																	
Albany	Grand								T.		.45							.88													.27		1.60
Amity	do						T		T.		.58			T.		T.		1.50	.13	T.						.23					T.	.05	2.49
Auxvasse	Missouri									T.	.21		T.				.25	2.98	.07	.03	.05				.40						.10	1.77	5.86
Bethany	Grand									T.	.80							.83	.30						.46								2.39
Bowling Green^2	Mississippi											.19					.09	.93	1.50		.08					.57						1.23	4.59
Brookfield^2	Grand										.35						.23	.93		1.40					.15		.37					.10	3.53
Browning 3 mi. NE	do									T.	.80					T.		1.31		.10					.80						.05	.04	3.10
Brunswick^2	do									T.	.12	.38					.04	.17	4.73		.12					.50					T.	.92	6.98
Canton, Lock No. 20^2	Mississippi										T.	.50					T.	.24	1.86		.12					.20						.73	3.65
Carrollton	Missouri									.07	.25						.03	3.28	.03	.06					.21						.12	1.00	5.05
Centralia^2	Mississippi											.42						.39	1.69		.05					.18						1.92	4.65
Chillicothe^2 (B)	Grand										T.	.59					.10	.68	1.20	T.	.02				.09	.20					.10	T.	2.98
Chillicothe^3 2mi ESE (C)	do										.46						.05	1.88	T.	.04					.22						.12	.27	3.04
Columbia$^{1, 5}$	Missouri									T.	.04	T.	.01				.18	2.72	T	.03	.01				.04						.76	2.06	5.85
Columbia^5 9 mi. WNW	do									T.	.07	T.	.01				.05	1.90	.51	T.					T.						.10	2.37	5.01
Conception	do				T.				T.		.39	T.				T.		.55	.27						.41						T.		1.62
Edgerton	do																																....
Edina^2	Mississippi										T.	.47						.45	1.42		.04				.02	.46						.05	2.91
Elsberry S. C. S.^{2}	do											.32					.15	.40	1.45		.19					.23						1.31	4.05
Fayette	Missouri									.04	.47		.04				.06	2.50	.12	.03					.08						.10	1.65	5.09
Fulton^2	do											.49					.18	.53	1.48		.03					.20						1.27	4.18
Gallatin^2	Grand									.02	T.	.66					T.	1.16	1.04	.02					.84	.23						.02	3.99
Grant City	do								T.		.89	T.		T.		T.		.50	.52						.28								2.19
Hannibal^1 (A)	Mississippi									T.	.18						.01	4.00		.18					.30						.98	.69	6.34
Hannibal^2 (B)	do											.20					T.	.08	3.80		.15											1.50	5.73
Hermann^2	Missouri											.30					.36	.10	.74	T.	T.					.40						.95	2.85
Kahoka^2	Mississippi											.46						.21	1.22		.06				.10	.26						.03	2.34
Kansas City Airport$^{1, 5}$	Missouri				T.					T.	.83						.08	2.02	T	.02		T.			.13						.01	.74	3.83
Kansas City University	do										1.32						.04	2.91	T.	.01					.36							.84	5.48
Kidder^2	Grand											.74						.63	1.05	.03	.01				.58	.58					T.		3.62
King City	Missouri																																....
Kirksville	Mississippi									T.	.18							2.12	.08	.15					.46						.02	.02	3.03
LaBelle^2	do											.40						.25	1.40							.40						.32	2.77
Lawson	Missouri																																....
Linneus	Grand									T.	.35						T.	2.16		.07					.36						.01	.23	3.18
Louisiana (A)	Mississippi											.12					.20	1.70	.82	.10	.03				.35						.10	1.34	4.76
Louisiana^2 (B)	do											.13					.15	.27	2.26		.11					.22						1.35	4.49
Lucerne^2	Grand										T.	.50						T.	1.30						.30	1.30							3.40
Macon^2	Chariton										.15	.57					T	.43	3.38		.08				.34	.59						.86	6.40
Madison^2	Mississippi											.28						1.10	1.80		.10					.70						1.10	5.08
Martinsburg^2	Missouri										T	.42	.02				.28	.28	1.66		.05					.16						1.22	4.09
Maryville	do						T		T.		.50	T		*	.06	T.		.92	.06						.37						T		1.91
Memphis^2	Mississippi										T.	.45					T.	.22	1.02		T.					.57						T.	2.26
Mexico^2	do											.40						1.23	1.91		.06					.10						1.79	5.49
Milan^2	Grand										.04	.56						.44	.85						.33	.64							2.86
Moberly^2 3½ mi. NE	Mississippi																																....
Monroe City	do										.19						.07	3.49	.84	.14					.76						.12	1.01	6.62
New Florence$^{3, 5}$ 1 mi SE	Missouri										.27		T.				.07	2.20	T.	.06					.10						.16	3.32	6.18
Oregon	do				.39				T.		.68	.03					T.	1.12	.03					T.	.03								2.28
Palmyra^2	Mississippi											.28					*	4.04			.14					.40						.75	5.61
Paris^2	do											.33					T	.86	1.88		.11					.40						.92	4.50
Perry 1 mile E	do										.20						.05	1.95	.95	.15					.37						.10	1.65	5.42
Philadelphia	do										.30							2.50	1.40							.35					.70	.60	5.85
Polo^2	Missouri									T.	.02	.74					.02	.13	.55	1.48	T.				*	1.10						T.	4.04
St. Charles^2 (A)	do																																....
St. Charles^2 (B)	do											.41					.03	.04	.70		.11					.68						.84	2.81
St. Joseph$^{1, 5}$	do								T.		.46						T.	1.53		.01				.02	.01						T.	.03	2.06
Salisbury	Chariton									.14	.42						.05	2.95	.02	.10	.01				.34						.28	1.03	5.34
Saverton, Lock No. 22^2	Mississippi										.01	.19					T.	.57	2.20		.15					.46						2.05	5.63
Shelbina	do										.28						.11	3.16	.04	.16					.42						.86	.34	5.37
Shelbyville^2	do										.04	.43						.44	2.77		.19					.23						.99	5.09
Steffenville	do									.01	.57						.04	2.36	.27	.12					.22						.20	.61	4.40
Tarkio^3	Missouri				.11		.41		T.		.60	T.		.18				1.14	T.						.18						T.		2 62
Trenton^2	Grand									.01	.06	.60					T.	.62	.81	.02					.76	.68						T.	3.56
Troy^2	Mississippi											.28					.01	.02	2.75		.12					.35						1.10	4.63
Unionville^2	Chariton										.05	.40						.15	1.00						.38	.40						.01	2 39
Vandalia	Mississippi										.53	.26					*	*	2.63						.14							1.49	5.05
Warrenton	do										T.	.22	T.				.20	1 05	.21	.06	.03				.48						T	2 14	4.39
Keokuk, Iowa^1	do									T.	.45					T.		1.49	.27	.04					.51						.17	.01	2.94
Southwestern Division																																	
Altona^2	Osage										T.	.39					T.	.12	.15				.58		.08							1.80	3.12
Anderson^2 1½ mi. SW	Neosho										.03	.18		.14				T.	.68						.94							.06	1.89
Appleton City	Osage																.11	.87				.18			.13						.05	1.78	3.12
Ava Ranger Station^2	White											.43						T.	.82					.22	1.32	.16							2.95
Bolivar	Osage									.04	.20						.08	T.	.02			T.	T.		.15							1.06	1.55
Boonville^2 (A)	Missouri											.18						.85	.87						.03	.02						1.77	3.72
Boonville^2 (B)	do											.17					T.	.35	1.39		T.					.03						1.60	3.54
Bradleyville^2	White											.72							.84					.54	.88	.60							3.58
Buffalo^2	Osage										.04	.22						.25	.09						.17	.63						.27	1.67
Butler	do									T.	.15						.10	.31				.39			.27						.26	1.81	3.29
Camdenton	do									.06		.12	.02				.11	.04				.22			.57							2.75	3.89
Caplinger Mills^2	do											.13					.19	.29	.23						.15	.10						1.78	2.87
Carthage	Neosho										.14							.35						.31	.50							.47	1.77
Cassville	White																																....
Chadwick^2	do										*	.64							.24	1.04					1.10	.53							3.55
Clinton^3	Osage									T.	.06						.12	.23				.24			.10						.37	2.21	3.33
Concordia	Missouri									.06	.08						.01	2.83							.19						.22	1.20	4.62
Crocker	Osage									T	*	.27					.14	*	.05			*	.41		.74						T.	1.25	2.86
Eldon	Missouri									T.	.21						03	.09	.46			*	.38		.40						T.	2.77	4.34
Eldorado Springs	Osage									T.	.23						.23	.14				.05			.20						T.	3.31	4.16
Elijah^2	White																		.35		.06		.05	.80	.17	.57							2.00
Forsyth^2	do											.54						.17	.60						1.10	.66							3.07
Galena^2	do											.20							1.10				.02		1.45	.60							3.37
Granby^2	do										.08	.08							.05						1.02	.02							1.25
Hailey	do											T.						.42						2.01	.51								2.94
Harrisonville^2	Osage									*	.35	.12					.02	2.08	.99				.06	.02	.14	.24						1.43	5.45
Jefferson City^2 (A)	Missouri										.01	.28					T.	.10	.83	T.	T.	T.	.01			.42						1.67	3.32
Jefferson City^2 (B)	do										.01	.27	T.					.08	.40							.32						1.67	2.75

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Daily Precipitation for October 1946–Continued from preceding page

Stations	Drainage-basins	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Total
Southwestern Division—	*Concluded*																																
Joplin[1]	Neosho								T.	.03	.23							.71						.37	.60							.45	2.39
Lakeside[2, 5]	Osage										.02	.14					.02	T.	.24				.04		.02	.08						1.62	2.18
Lamar[2]	Neosho											.25							.48						.35							.70	1.78
Lebanon	Osage																.12		.22			.18	.05		.48							.23	1.28
Lexington[2]	Missouri										*.08*	*.48*					.80		1.80						.08	.16						.95	§4.35
Lockwood	Osage									.04	.20							.07						.20	.30							.20	1.01
Mansfield[2]	White											.38							.98				.06		.35	.87							2.64
Marshall	Missouri									.04	.55						T.	2.93		T.					.31						1.07	.27	5.17
Marshfield[2]	White										T.	.16					.04	.01	.07				.04	.01	.38	.50						.07	1.28
Mountain Grove[2]	Gasconade											.46						T.	.60			T.	.08	.01	.27	1.19							2.61
Mount Vernon[2]	Neosho									T.		.14							.02						.60	.65							1.41
Neosho	do									.05	.05							.14						.52	.29								1.05
Nevada	Osage									T.	.04						.18	.05						T.	.37						T.	2.85	3.49
Osceola[2]	do											.11					.17	.04	.05				.06		.13	.04						1.31	1.91
Ozark[2]	White										T.	.31						T.	.65						.62	1.47							3.05
Ozark Beach[2]	do											*	.52					.02	*	.90					.66	.35							2.45
Pierce City[2]	Neosho											.15							.04						.87							T.	1.06
Pineview Lookout[2]	White																																....
Pleasant Hill[2]	Osage									.02	.12	.36					.05	.30	2.37				.28		.08	.22						1.16	4.96
Roby	Gasconade									.06	T.	.44					.04	.26	.04			.22		.11	.59							.17	1.93
St. Thomas[2]. 2¼ mi SW	Osage											*.24*						*T.*	*.25*				*.10*		*.01*	*.06*						1.50	§2.16
Sedalia	Missouri									.04	.38		T.				.10	2.23	.07			.50			.07						.06	1.57	5.02
Seligman[2]	Neosho											.11						T	.43						1.73								2.27
Seymour[2] ... 3½ mi. NE	White										T.	.58						.10	.42				T.		T	1.16							2.26
Shell Knob[2] ... 3 mi. SE	do																																....
Siloam Sprgs Lookout[2]	do											.11							.41					.22		1.34							2.08
Springfield[1,5]. 4 mi. NW	do									T.	.13	T					.06	.06				T.	.03	.26	.68							T.	1.22
Stover[2]	Missouri										T.	.07					.04	.19	.70				.06		.02	.14						.96	2.18
Sugar Camp Lookout[2]	White																																....
Sweet Springs	Missouri									.04	.45						.02	2.79				T.			.48						.16	1.41	5.35
Tecumseh[2] ... ¼ mi. W	White																																....
Topaz[2]	do											.50							1.09						.12	.60							2.31
Vanzant[2] ... 3¾ mi. SE	do											.46							1.12						.13	.39							2.10
Waco[2]	Spring									.01	.04	.18					.02		.11													.63	0.99
Warrensburg	Missouri									T	.25						T.	3.11				.02		T.	.05						.11	1.54	5.08
Warsaw[2] (A)	Osage									T.		.21					.21	*	.49				.20		*	.20						1.20	2.51
Warsaw[2] (B)	do											*.19*						.40	.35				.19			.16						*	§1.29
Wasola[2]	White											.54							.92					.42	.96	.83							3.67
Waverly[2]	Missouri							T.			.21	.28	.02				.05	.21	2.96	.05	.03				.05	.21					.02	.33	4.42
Waynesville	Gasconade											.52					.29	T.	.36				.45		.39							.41	2.42
Wilderness Lookout[2]	White											.39							.27						1.04	.24							1.94
Southeastern Division																																	
Advance[3] ... ½ mile W	St. Francis										.02	.12						.28		T.		.01	.01	.05	1.08								1.57
Alton ... 10 miles SE	Black																		.57	.04				.09	.45	.25							1.40
Annapolis[2] ... 7 mi. W	do											.01							.92				.10			.71							1.74
Arcadia[2]	St. Francis										.14							.07	.58							.46							1.25
Bellview[2]	Meramec											.25						T.	.35				T.	T.		.27						.01	0.88
Bernie[2]	St. Francis										T.	.21							.06				.18	.21		1.38							2.04
Birch Tree[2] ... ½ mile E	Black																																....
Black ... 9 miles NW	do											.25							.43				.04		.43							.10	1.25
Bloomfield[2]	St. Francis											.40							.15				.07			2.82							3.44
Bunker[2] ... 4 miles NW	Black																	.50			.15											.02	0.67
Campbell	St. Francis										.09	.09	T.					.01	.12			.15	.02		.70	1.12							2.30
Cape Girardeau (A)	Mississippi										.05							.23	.25	T					.49	.87						.03	1.92
Cape Girardeau[2] (B)	do											.08						.02	.41							1.18							1.69
Caruthersville[2] (A)	do											.05	T.						.03				.18	T.	.09	2.40							2.75
Caruthersville[2] (B)	do											.05											.18	.04		2.40	T.						2.67
Centerville(1)[2]	Black											.18						.04	.60				.10			.55							1.47
Centerville(2)[2]	do											.09						T.	.60				.10			.49							1.28
Cook Station[2]	Meramec											.40					T.		.95							.68						.20	2.23
Crane Mountain[2]	St. Francis											T.						.09	.76							1.14							1.99
Crystal City	Mississippi											.16					.01	T	.51		T.				.08	.09						.75	1.60
Cuba	Meramec									T.	*T.*	.13	T.				T.	T.	.93			T.	T.		.50							.62	2.18
Deering[2]	St. Francis											.13							.05		.02		.06	.07	T.	2.70							3.03
De Soto	Mississippi											.15					.01		.39						.07	.20						.79	1.61
Dexter[2]	St. Francis											.48							.12		.04		.08	.22	.04	1.38							2.36
Doniphan(1)	Black										T.	.20							.43	T.			.15	.15	1.20	.43							2.56
Doniphan(2)[2]	do											.18							.32		.03			.20		1.24							1.97
East End[2]	Meramec																		.65				.03			.98							1.66
Eastwood Lookout[2]	Black																	*	.44				.59	.26		.71							2.00
Ellington	do																	.20	.66				.11		*	.38						.10	1.45
Ellsinore Lookout[2]	do																		.18				.28	.65	1.95								3.06
Farmington[2]	St. Francis											.10						.02	.33							.26							0.71
Fisk[2]	do											*.35*							*.15*				T.	*.13*		3.81							§4.44
Fredericktown[2]	do																	.02	.64							1.12							1.78
Gerald	Meramec											.36					.02	.19	*T.*						.05							4.01	4.63
Greenville(1)	St. Francis																						.10	.14		1.32						.03	....
Greenville[2](2)	do											.02						.03	.87		.02		.09	.13		1.35							2.51
High Lookout[2]	Black																	.83						.14		1.48							2.45
Jackson	Mississippi										.05	.05						.14	.67						.65	1.13						T.	2.69
Jefferson Barracks	do											.03						.17	.29	*	.06				.13	.75						1.14	2.57
Jerome[2]	Gasconade										T.	.33						.06	.38				.17		T.	.28						.08	1.30
Koshkonong[2]	Black																	T.	.43		.07			.40	.10	.74							1.74
Leeper[2]	do																		.86		.20		.20	.28		1.18							2.72
Licking[2]	Gasconade											.39											.73	.22									1.34
Macedonia Lookout[2]	Black											.02							.23		.03		.45	.73		1.00							2.46
Marble Hill	Mississippi																	.12	.60					.02	.64	1.10						T.	2.48
Morehouse	do										.04	.15							.10					.13	.31	1.21							1.94
Moselle[2]	Meramec											.20							.18		.04					.13						.76	1.31
New Madrid[2]	Mississippi											.50	.02						.19		T.		T.	T.	.14	1.59							2.44
Oates Tower[2]	Black											.12					T.		.51		.02		.05	T		.24						T.	0.94
Owensville[2]	Gasconade											.55					.01	.01	.10							.02						1.31	2.00
Pacific[2]	Meramec											*.18*						*.01*	*.36*							*.34*						.70	§1.59
Parma[2]	St. Francis											.31							T.				.31	.18	T.	1.50							2.30
Perryville	Mississippi																	.21	.66						.45	.30						.54	2.16
Poplar Bluff[2]	Black											.58							.28		T.		.47	.59		2.41							4.33
Puxico[2]	St. Francis											.26							.32				.07	.05		1.46							2.16
Qulin[2]	do											.42							.03		T.		.25	.11	T.	1.37							2.18
Reynolds[2]	Black											.26							.69				.10			.65							1.70
Richwoods[2]	Meramec											.24						.03	1.50		T.					.52						.10	2.39
Rolla[2]	do											.38					T.	.07	.72				.05			.20						.15	1.57
Round Spring[2]	Black											.19							.56				1.05			.37							2.17

Continued on next page

Daily Precipitation for October 1946—Continued from preceding page

Stations	Drainage-basins	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Total
Southeastern Division —	*Concluded*																																
St. Louis:																																	
City Office[1], [5]	Mississippi	....	....	....	....	....	....	....	....	....	.03	T.	....	....	....	....	T.	.43	....	.07	....	....	....	....	.19	....	....	....	....	....	....	2.73	3.45
Airport[3], [5]	Missouri	....	....	....	....	....	....	....	....	....	.15	....	....	....	....	T.	.01	.63	T.	.08	T.	....	....	....	.35	....	....	....	....	....	.01	2.91	4.14
St. Louis Univ.[1], [5]	Mississippi	....	....	....	....	....	....	....	....	....	T.	.03	....	....	....	....	T.	.36	T.	.07	T.	....	....	....	.12	....	....	....	....	....	....	2.81	3.39
Washington Univ.[2]	....do	....	....	....	....	....	....	....	....	....	....	.02	....	....	....	....	....	.08	.37	....	.05	....	....	....	....	.04	....	....	....	....	....	.72	1.28
Salem	Meramec	....	....	....	....	....	....	....	....	....	....	.55	....	....	....	....	T.	.31	.14	....	....	T.	....	....	.60	....	....	....	....	....	....	.07	1.67
Sikeston[2]	Mississippi	....	....	....	....	....	....	....	....	....	....	.33	....	....	....	....	....	....	.09	T.	T.	....	.03	.15	T.	1.84	....	....	T.	....	....	....	2.44
Steelville[2] ...2½ mi. NE	Meramec	....	....	....	....	....	....	....	....	....	....	.10	....	....	....	....	....	....	.89	....	....	....	....	....	....	.40	....	....	....	....	....	.50	1.89
Sullivan[2]	....do	....	....	....	....	....	....	....	....	....	....	.13	....	....	....	....	.01	.02	.68	....	T.	....	....	....	....	.88	....	....	....	....	....	.15	1.87
Summersville[2]	Black	....	....	....	....	....	....	....	....	....	....	.17	....	....	....	....	....	....	.61	....	....	....	.37	T.	....	.58	....	....	....	....	....	....	1.73
Union[2] ....1½ mi. SE	Meramec	....	....	....	....	....	....	....	....	....	....	.37	....	....	....	....	....	.02	.03	....	.05	....	....	....	....	.09	....	....	....	....	....	1.63	2.19
Valley Park[2]	....do	....	....	....	....	....	....	....	....	....	....	.04	....	....	....	....	....	T.	.36	....	T.	....	....	....	....	.10	....	....	....	....	....	.59	1.09
Van Buren[2]	Black	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.74	....	....	....	....	.96	.07	.90	....	....	....	....	....	....	....	2.67
Vichy[3] ..... 2 miles NW	Meramec	....	....	....	....	....	....	....	....	T.	.48	T.	T.	....	....	....	.01	T.	....	T.	....	.01	....	....	.70	....	....	....	....	....	T.	2.78	3.98
Wappapello Dam[2]	St. Francis	....	....	....	....	....	....	....	....	....	....	.35	....	....	....	....	....	....	.50	....	T.	....	.08	.64	.08	1.71	....	....	....	....	....	....	3.36
Webster Groves	Mississippi	....	....	....	....	....	....	....	....	....	....	T.	....	....	....	....	....	.18	.13	.02	.04	....	....	....	.12	....	....	....	....	....	....	1.83	2.32
Weingarten	....do	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.10	.49	....	....	....	....	....	....	.88	....	....	....	....	....	.60	2.07
West Plains[3]	Black	....	....	....	....	....	....	....	....	....	.01	....	....	....	....	....	T.	.52	....	.03	....	....	.10	.25	.84	....	....	....	....	....	....	....	1.75
Williamsville[2]	....do	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.28	....	....	....	.22	....	....	1.89	....	....	....	....	....	....	2.39
Willow Springs[2] 500 ft E	White	....	....	....	....	....	....	....	....	....	....	.30	....	....	....	....	....	....	1.14	*T.*	....	....	....	.10	....	.55	....	....	....	....	....	*T.*	2.09
Winona Ranger Sta.[2]	Black	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.52	.75	....	....	....	.40	....	.30	.52	....	....	....	....	....	....	2.49
Zalma[2]	Mississippi	....	....	....	....	....	....	....	....	....	....	.13	....	....	....	....	....	....	.58	....	....	....	....	.06	T.	1.56	....	....	....	....	....	....	2.33
Cairo, Ill.[1], [5]	....do	....	....	....	....	....	....	....	....	....	.03	.31	....	....	....	....	....	.13	.01	T	....	....	....	.03	2.16	....	....	....	....	....	....	.02	2.69
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....

Except as otherwise indicated, amounts are for 24 hours ending late in afternoon. [1] Midnight to midnight. [2] Measured in the morning; for the preceding 24 hours. [3] Data for 24 hours ending 12:30 A. M. (C. S. T.) of following day. [5] Recording gage. T. Trace or 0.005 inch or less. * Included in next measurement. // Windshield on gage. Italics data interpolated. § Partly interpolated. (A) Record from cooperative station gage. (B) Record from river station gage. (C) Airport
‡ Received too late to be included in means and extremes.

Daily Evaporation (inches), Mean Temperature (F°), and Wind Movement (miles) for October 1946

(See precipitation data in daily precipitation table)

Station	Data	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Monthly
Columbia (Univ. of Mo. Hort. Exp. Sta. 9 mi. WNW.)	Evaporation	.164	.168	.213	.179	.295	.155	.198	.141	.100	.128	.148	.124	.189	.176	.220	.073	.069	.186	.034	.036	.079	.096	.131	.113	.145	.210	.133	.124	.147	.133	.073	4.380
	Mean temperature	54	57	62	66	68	68	68	69	66	68	54	45	58	58	60	63	63	56	49	48	54	66	68	64	56	62	62	66	72	68	54	61.0
	Wind movement	18	32	50	27	73	27	12	2	5	68	106	43	99	19	55	36	20	146	5	7	29	39	45	147	63	77	22	62	122	166	49	1,671
Lakeside (Osage Dam)	Evaporation	.158	.140	.201	.213	.239	.290	.166	.171	.118	.061	.181	.135	.116	.194	.154	.217	.018	.105	.108	.101	.116	.060	.055	.136	.094	.164	.232	.147	.133	.243	.115	4.581
	Mean temperature	54	56	60	65	64	73	66	66	68	68	56	50	56	62	60	58	66	56	53	54	54	63	66	66	56	62	61	67	72	75	56	61.5
	Wind movement	24	31	24	39	50	78	12	22	9	5	114	82	29	39	23	47	22	143	44	24	18	49	13	92	68	59	57	32	76	130	96	1,551
St. Louis (Washington University)	Evaporation	.121	.088	.121	.137	.149	.154	.106	.124	.099	.082	.128	.065	.079	.134	.101	.125	.019	.078	.025	.009	.049	.068	.062	.123	.058	.115	.142	.080	.090	.138	.146	3.015
	Mean temperature	54	57	62	65	67	69	68	66	69	70	52	46	56	61	61	63	64	52	48	52	52	61	68	64	58	64	60	68	73	74	55	61.3
	Wind movement	26	12	20	22	23	25	9	14	12	8	58	31	26	33	16	30	22	69	27	27	11	29	17	55	47	34	39	7	70	79	78	976

Observations taken at 8:00 a. m. except at 5:00 p. m. at Columbia. For Lakeside and St. Louis (Washington University) descriptions see April 1932 and August 1938 reports. respectively. * Included in next measurement.

Missouri Storms, October 1946

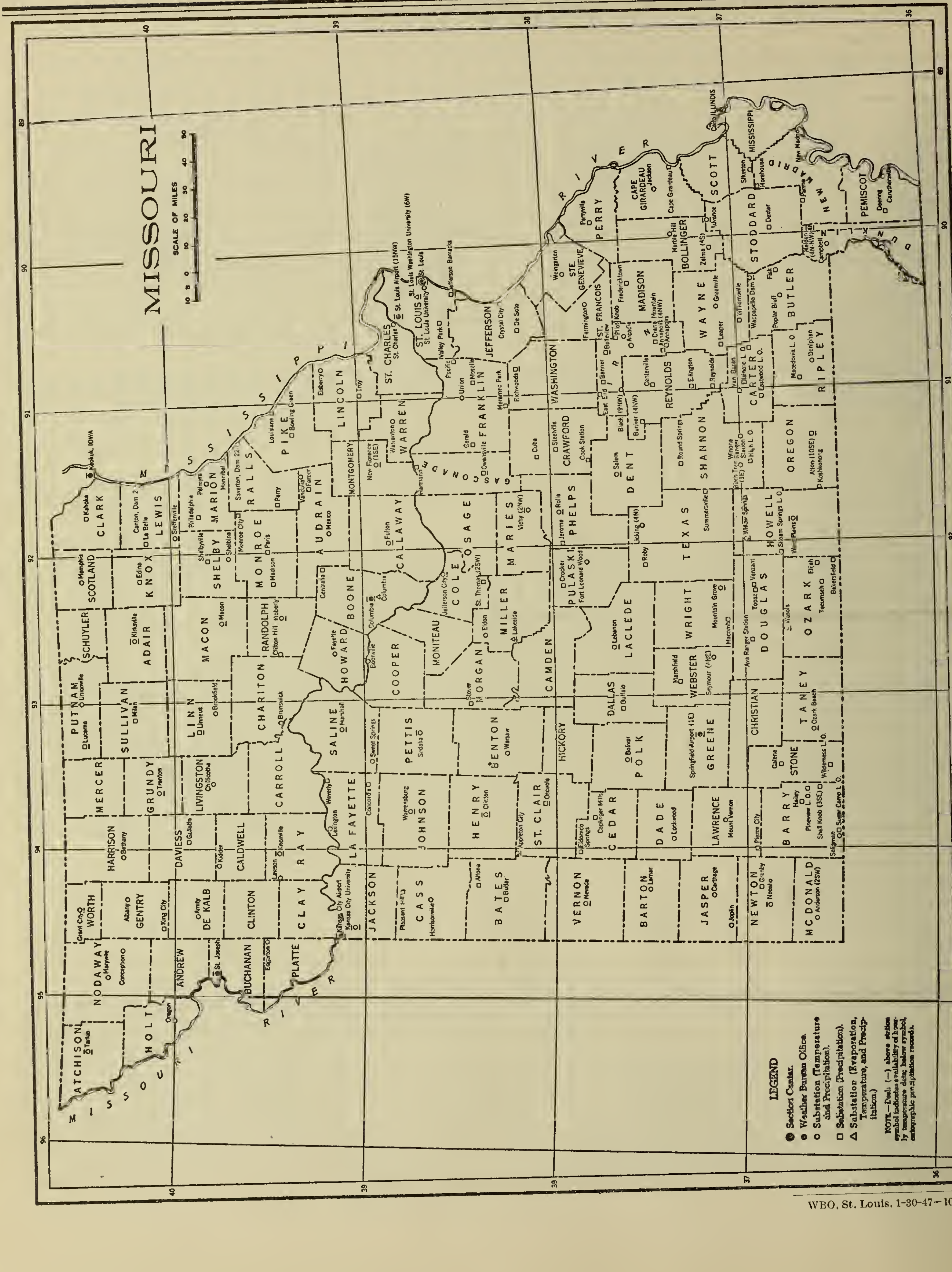
County	Date	Time	Nature of storm	Storm moved from	Width of path (miles)	Length of path (miles)	Loss of life	Property damage (estimated)	Remarks
St. Louis City	17	7:30 p.m. to 10:30 p. m.	Strong gusty wind	SW.	....	....	0	minor	Wires and tree limbs blown down and a few shingles torn from roofs in some sections of the city.
St. Clair	17	About 3:00 p.m. to 3:30 p.m.	Local tornado	SW.	¼	About 5	0	Not reported	A small local tornado struck the vicinity about five miles south of Appleton City, resulting in considerable damage to buildings on two farms and to standing timber and orchards. Ten acres of shock corn and corn in fields were damaged. Two steers were killed and a few injured. About 100 chickens were also killed. Thirty tons of stacked hay and an unknown amount of hay in barns were damaged. Storm was accompanied by light hail and heavy rain.

Time used on this tabulation is Central Standard Time, unless otherwise indicated.

Daily Temperatures for October 1946

Stations		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Northern Division																																	
Brunswick/	Maximum	72	78	80	85	84	86	86	85	69	73	54	56	71	72	79	59	62	58	57	62	72	77	81	67	70	78	73	78	80	75	54	72.0
	Minimum	39	42	43	48	52	68	54	54	56	58	48	34	36	44	43	45	55	44	42	39	40	42	54	54	40	40	50	51	59	67	49	48.1
Chillicothe Airport	Maximum	72	78	80	84	84	84	86	85	76	72	53	56	67	71	76	61	58	58	60	63	69	80	82	66	70	76	74	79	79	72	55	71.8
	Minimum	39	40	46	49	59	56	53	53	57	48	32	27	42	39	41	51	43	40	42	34	42	51	52	42	38	51	47	57	64	50	46	46.2
Columbia	Maximum	70	76	80	83	84	85	87	86	77	80	58	59	74	74	79	65	70	60	51	63	68	80	83	73	73	80	77	80	83	74	57	73.8
	Minimum	43	46	51	55	59	58	55	56	54	51	36	34	46	47	50	55	47	44	42	37	46	59	58	46	42	52	54	58	67	53	51	50.1
Fayette	Maximum	69	75	78	83	82	85	86	86	74	78	56	58	72	73	78	69	64	63	52	62	69	79	81	70	72	78	75	78	82	76	55	72.8
	Minimum	39	41	47	49	56	52	52	52	53	54	45	32	42	45	42	55	56	42	40	37	40	52	51	55	40	45	48	56	61	54	49	47.8
Grant City	Maximum	71	73	77	81	81	79	75	81	73	65	51	50	62	67	74	67	51	57	61	65	69	76	80	74	71	77	72	78	80	75	61	70.1
	Minimum	43	55	52	54	64	55	49	58	52	48	40	28	40	37	47	47	46	34	41	52	42	60	65	56	50	55	50	57	65	51	40	49.5
Hannibal	Maximum	68	75	78	82	83	85	84	80	80	79	56	55	72	70	78	63	61	59	50	62	68	79	81	69	71	78	72	75	81	75	54	71.7
	Minimum	38	42	52	52	60	57	54	53	55	53	40	31	44	48	47	57	54	45	42	37	45	53	57	48	42	53	50	57	66	54	48	49.5
Kansas City Airport	Maximum	75	78	82	84	84	86	84	80	78	67	52	60	68	71	78	66	60	59	61	66	64	71	81	70	75	79	77	80	81	73	55	72.4
	Minimum	45	52	56	59	66	61	54	64	62	49	42	37	49	42	53	52	42	39	44	38	51	57	59	49	45	55	56	65	69	52	50	52.1
Kirksville	Maximum	67	74	76	80	81	82	82	82	71	75	58	51	68	67	75	68	58	57	55	61	69	76	80	70	69	77	72	78	79	74	55	70.5
	Minimum	40	43	48	51	55	55	54	54	57	57	43	29	40	44	48	52	50	39	41	37	42	51	51	51	36	50	49	54	65	54	45	47.9
Lawson	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
Louisiana	Maximum	69	73	80	82	84	87	87	85	83	80	71	57	72	74	80	68	63	65	51	64	77	80	82	75	70	79	73	77	83	77	62	74.5
	Minimum	32	34	45	45	54	49	45	42	46	58	50	29	32	46	36	56	59	48	37	36	38	53	50	55	42	48	41	55	65	60	49	46.3
Macon/	Maximum	70	77	80	84	83	85	86	85	69	75	55	58	71	72	77	60	60	61	52	63	70	79	81	67	70	77	73	78	80	74	53	71.8
	Minimum	38	39	45	47	52	53	50	51	53	54	46	30	33	42	43	49	54	42	40	34	35	42	51	55	40	40	47	48	59	66	47	46.0
Maryville	Maximum	69	72	76	80	79	73	77	76	73	66	49	54	60	63	71	65	51	53	59	64	68	75	79	70	70	76	71	78	80	73	60	68.7
	Minimum	45	45	52	55	65	57	49	57	52	47	39	26	42	34	47	47	46	33	40	36	44	46	54	51	34	48	51	59	66	51	42	47.1
Mexico/	Maximum	70	77	82	85	84	86	87	86	80	80	57	58	73	74	79	65	67	60	53	65	69	78	82	75	72	79	76	78	81	73	58	73.8
	Minimum	36	39	44	49	53	56	48	48	48	53	38	32	38	46	43	47	56	44	46	37	38	44	55	55	42	44	46	55	57	66	48	46.8
Moberly/	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
Oregon	Maximum	73	75	79	80	82	74	81	77	73	68	50	57	60	69	73	70	52	58	62	65	69	75	80	71	73	77	75	79	81	75	58	70.7
	Minimum	45	47	55	58	64	54	50	59	53	47	38	29	47	37	50	47	45	35	43	38	50	49	57	51	40	53	53	62	66	52	43	48.9
St. Charles/	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
St. Joseph	Maximum	74	76	81	81	83	80	82	78	73	64	49	61	60	71	74	61	53	58	61	67	68	78	80	67	74	78	74	80	80	72	58	70.8
	Minimum	45	50	54	58	67	54	51	61	57	47	38	35	47	38	53	49	41	37	42	39	48	52	57	47	43	58	54	63	67	49	48	50.0
Trenton	Maximum	69	72	77	80	84	83	85	86	85	78	77	56	60	66	73	77	58	55	59	62	66	70	79	83	66	72	78	73	80	80	68	72.8
	Minimum	41	43	47	50	60	57	52	55	57	54	40	29	40	41	44	50	49	38	41	33	41	50	53	60	36	47	50	56	61	66	46	48.0
Unionville/	Maximum	69	75	77	81	81	83	81	83	76	73	51	53	66	70	75	60	52	58	60	64	70	78	80	62	70	75	72	78	79	71	59	70.4
	Minimum	37	42	46	50	52	58	49	50	54	56	43	32	32	38	38	44	48	36	36	37	38	44	43	53	34	37	46	48	60	64	42	44.9
Warrenton	Maximum	68	75	81	83	84	86	85	86	86	80	71	60	74	76	79	68	71	70	54	63	68	79	83	76	72	80	76	80	84	80	71	75.8
	Minimum	32	38	38	49	54	50	48	43	47	60	47	28	37	45	42	55	58	44	39	38	39	51	53	55	40	46	43	58	64	65	47	46.9
Keokuk, Iowa	Maximum	66	72	76	80	81	84	83	80	75	79	54	52	70	69	78	66	61	59	55	61	68	79	80	69	71	79	73	76	80	76	53	71.1
	Minimum	45	50	53	56	59	58	59	57	58	54	40	36	43	50	48	56	54	46	46	41	49	56	54	48	43	57	43	57	70	52	49	51.2
Southwestern Division																																	
Clinton	Maximum	74	80	84	85	85	87	87	87	76	79	56	62	75	74	84	62	72	62	62	65	65	78	83	69	75	82	80	80	85	72	56	74.9
	Minimum	41	42	43	51	61	57	53	59	58	50	35	34	42	44	45	56	47	43	42	35	42	57	57	44	42	49	48	60	65	52	51	48.5
Eldon	Maximum	69	75	79	83	83	84	85	83	82	79	62	60	71	73	78	70	73	69	63	65	66	76	81	72	73	79	79	79	83	78	63	74.7
	Minimum	38	43	43	50	56	57	52	52	54	57	47	35	42	48	46	56	59	41	41	39	39	54	57	56	44	50	46	58	62	63	50	49.6
Harrisonville/	Maximum	74	77	81	84	83	85	86	85	74	68	55	64	72	74	79	62	71	62	63	66	63	78	81	66	75	78	77	80	83	73	58	73.5
	Minimum	44	43	45	47	53	57	54	56	58	57	41	30	38	39	45	51	51	36	40	37	42	45	56	58	37	44	47	57	59	64	47	47.7
Jefferson City	Maximum	70	76	81	84	83	85	87	85	80	79	62	61	73	74	80	65	75	67	58	64	68	78	83	75	73	81	78	81	84	78	62	75.2
	Minimum	35	35	39	44	54	49	46	48	49	58	46	31	38	43	38	56	60	45	38	42	36	54	52	54	40	49	44	54	64	61	50	46.8
Joplin	Maximum	75	77	82	84	83	81	86	88	78	78	55	66	69	74	79	67	76	62	67	68	73	75	72	75	73	77	79	79	81	79	69	75.2
	Minimum	47	50	53	62	66	63	60	64	65	52	42	40	52	45	53	61	46	43	50	43	48	64	63	51	45	57	54	62	69	68	57	54.7
Lamar/	Maximum	75	80	84	87	85	85	87	86	77	80	58	65	72	75	81	66	77	63	68	67	70	80	73	76	75	80	82	88	85	77	63	76.2
	Minimum	41	45	45	46	60	58	53	53	57	58	41	33	35	41	40	47	57	40	40	40	40	51	56	57	39	41	47	51	60	65	52	48.0
Lebanon	Maximum	72	76	81	85	83	86	88	86	83	79	73	63	70	75	77	71	75	69	67	67	69	77	78	72	72	78	78	79	82	80	77	76.4
	Minimum	32	44	48	56	58	52	59	58	53	59	45	31	43	42	46	55	59	41	39	37	41	55	53	51	37	47	41	59	62	64	50	48.9
Lexington/	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	71	74	81	62	62	63	68	72	72	78	80	85	68	75	80	78	82	82	75	....
	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	..	50	56	54	50	47	47	38	44	51	54	65	63	56	53	50	57	65	..	....
Marshall	Maximum	79	77	80	83	82	85	86	83	77	75	57	57	71	70	78	75	65	62	56	62	70	76	82	74	72	79	74	79	81	79	55	73.6
	Minimum	37	40	45	52	57	58	52	52	58	57	45	34	46	44	45	56	54	42	43	35	42	58	58	55	40	51	50	56	65	52	49	49.3
Mountain Grove	Maximum	67	72	78	81	81	82	84	84	84	78	70	66	69	74	75	71	72	66	64	62	67	72	74	67	70	75	76	79	80	82	75	74.1
	Minimum	42	44	47	50	54	54	55	54	54	60	46	33	45	44	46	52	58	42	44	44	46	54	55	57	39	45	48	58	59	61	61	50.0
Neosho	Maximum	76	79	82	86	83	86	87	87	82	80	63	67	71	75	80	76	74	67	68	69	72	77	73	78	73	78	80	80	81	82	79	77.1
	Minimum	36	41	44	54	63	54	46	52	56	56	45	29	49	36	41	56	62	43	39	32	39	58	54	63	35	46	46	54	65	69	58	49.1
Nevada	Maximum	80	83	86	89	88	90	92	90	83	80	58	69	75	79	84	75	77	66	68	70	74	82	77	74	71	82	72	84	85	79	61	78.2
	Minimum	41	41	45	55	63	59	57	56	60	56	40	32	42	37	43	56	55	39	42	33	45	60	57	59	39	49	50	50	50	61	52	49.2
Sedalia	Maximum	71	76	79	85	82	84	86	84	78	78	59	59	72	72	79	73	71	69	57	64	66	75	81	70	72	79	77	79	82	78	57	74.0
	Minimum	43	47	50	56	61	60	57	57	59	57	46	33	47	45	48	56	57	42	45	35	45	55	59	58	41	53	50	62	62	57	50	51.4
Springfield, 4 mi. NW	Maximum	69	75	81	83	82	82	86	85	76	79	54	62	68	74	76	65	72	62	65	66	70	78	70	73	70	77	76	78	81	81	70	73.7
	Minimum	43	47	48	56	60	57	55	60	59	49	34	34	40	41	46	55	45	42	43	35	45	58	58	46	41	47	49	59	62	64	56	49.5
Warrensburg	Maximum	73	78	81	84	84	85	87	88	75	75	55	60	74	73	80	75	73	66	60	65	68	75	83	72	73	77	79	79	81	79	55	74.6
	Minimum	44	47	50	56	60	58	57	60	60	55	45	34	45	43	50	55	55	46	44	37	45	57	59	54	40	51	52	60	64	55	49	51.2
Southeastern Division																																	
Arcadia/	Maximum	70	74	78	80	82	86	85	88	84	79	56	64	72	78	76	80	72	65	65	67	66	76	76	65	72	76	76	80	80	82	68	74.8
	Minimum	31	30	32	37	44	44	43	44	43	46	49	28	32	34	35	36	58	47	34	36	33	34	57	57	37	37	38	39	57	59	60	41.6
Birch Tree, ½ mile E	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
Caruthersville	Maximum	65	72	79	82	82	82	83	82	83	78	72	65	58	72	76	75	80	75	59	67	70	72	69	69	67	73	78	78	81	80	82	74.4
	Minimum	45	45	49	53	56	55	58	54	52	58	54	39	39	43	46	51	57	49	45	46	45	52	57	58	53	45	50	62	60	61	62	51.6
Crystal City	Maximum	69	75	83	84	85	90	89	88	84	84	72	61	76	78	79	76	74	73	61	66	69	80	83	73	73	81	78	82	85	86	79	77.9
	Minimum	30	32	34	39	44	42	43	41	45	60	50	29	30	36	35	51	55	49	36	45	35	49	54	61	41	43	39	52	64	64	52	44.8
Doniphan	Maximum	69	74	81	82	85	88	85	89	87	75	67	69	73	77	79	80	77	76	61	72	70	73	76	68	74	77	79	83	83	80	84	77.2
	Minimum	35	32	35	39	41	44	44	44	48	49	51	29	29	30	33	44	60	48	38	38	33	46	57	55	41	36	36	53	61	60	60	43.5
Farmington	Maximum	67	73	78	80	81	87	84	85	84	80	67	61	73	75	76	80	72	67	60	64	64	78	75	66	71	76	80	79	80	81	73	74.7
	Minimum	31	33	40	45	47	44	45	43	46	60	47	30	34	38	40	52	57	44	34	46	35	49	55	56	41	43	43	56	63	60	52	45.5
Jackson	Maximum	70	75	82	84	85	90	89	89	86	80	65	66	73	77	78	80	77	73	64	68	67	76	74	67	72	75	78	77	80	78	80	76.6
	Minimum	33	34	37	41	44	44	48	45	47	57	52	31	31	34	35	48	58	50	35	49	35	48	58	55	44	40	42	55	62	59	60	45.5
Poplar Bluff	Maximum	72	75	80	82	83	89	87	90	85	78	66	69	72	77	78	78	77	74	60	71	70	71	75	67	74	76	79	79	80	80	84	76.7
	Minimum	39	35	37	41	44	45	51	49	49	50	53	33	32	33	36	42	58	49	40	42	35	53	57	54	47	37	39	56	58	58	62	45.6
Rolla/	Maximum	70	73	79	81	81	84	89	85	85	78	56	61	70	74	77	65	73	62	63	65	66	75	80	71	72	79	77	79	83	82	58	74.0
	Minimum	36	38	40	45	53	48	49	48	53	61	46	33	41	45	45	56	59	43	40	42	40	54	54	60	41	48	46	57	63	64	51	48.4
St. Louis	Maximum	67	72	79	80	82	88	86	82	83	80	62	57	73	76	76	74	71	62	57	64	65	77	81	69	71	78	73	80	82	84	58	73.8
	Minimum	46	48	52	54	56	57	60	59	60	62	45	38	44	53	51	58	58	48	46	45	46	54	57	54	48	52	51	62	65	58	51	52.8
Salem	Maximum	70	73	78	81	81	85	86	85	88	77	66	60	71	75	76	75	73	66	61	66	66	75	77	67	71	77	76	78	78	82	72	74.6
	Minimum	33	35	40	48	51	48	43	45	46	60	47	32	38	42	42	53	59	45	38	47	39	54	56	57	36	45	41	56	64	62	54	47.0
Sikeston/	Maximum	70	75	81	84	84	90	88	89	91	83	59	68	73	77	79	80	79	59	62	69	73	77	72	67	71	76	77	78	82	80	85	76.7
	Minimum	36	39	43	48	47	50	52	49	50	52	53	34	37	39	39	44	53	50	39	41	39	42	50	55	48	44	45	50	60	59	61	46.7
Union, 1½ mi. SE	Maximum	69	76	82	84	85	88	87	88	86	81	70	58	74	76	79	71	74	69	69	64	69	79	83	74	73	81	79	83	85	85	80	77.5
	Minimum	31	31	34	38	46	41	52	41	45	58	49	29	31	35	35	54	59	47	34	43	32	47	47	59	35	39	37	47	63	66	50	43.7
West Plains	Maximum	71	74	80	81	82	87	85	87	88	89	60	66	71	78	78	73	75	66	59	64	69	72	72	66	73	77	76	82	79	80	81	75.5
	Minimum	34	32	34	40	43	44	45	44	47	51	37	26	29	31	34	48	51	41	38	38	34	56	56	52	37	37	36	51	64	60	64	43.0
Cairo, Ill.	Maximum	67	73	80	82	82	86	86	84	83	79	68	65	70	72	76	77	77	65	60	66	67	75	71	67	70	73	77	77	82	78	82	74.7
	Minimum	44	44	50	54	55	54	58	55	56	58	52	42	44	45	46	54	62	50	45	50	45	55	60	56	53	47	50	65	62	61	64	52.8

/ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs. ^{a}, ^{b}, ^{c}, etc., number of days missing, for example. ^{b} indicates two days missing. Italics data interpolated. § Partly interpolated.


MISSOURI
SCALE OF MILES
10 5 0 10 20 30 40 50
LEGEND
● Section Center.
● Weather Bureau Office.
○ Substation (Temperature and Precipitation).
□ Substation (Precipitation).
△ Substation (Evaporation, Temperature, and Precipitation.)
NOTE.—Dash (—) above station symbol indicates availability of hourly temperature data; below symbol, autographic precipitation records.
MISSISSIPPI RIVER
MISSOURI RIVER
ILLINOIS
Keokuk, IOWA
ATCHISON
NODAWAY
WORTH
HARRISON
MERCER
PUTNAM
SCHUYLER
SCOTLAND
CLARK
HOLT
ANDREW
GENTRY
DAVIESS
GRUNDY
SULLIVAN
ADAIR
KNOX
LEWIS
BUCHANAN
DE KALB
CALDWELL
LIVINGSTON
LINN
MACON
SHELBY
MARION
PLATTE
CLINTON
RAY
CARROLL
CHARITON
RANDOLPH
MONROE
RALLS
PIKE
CLAY
JACKSON
LA FAYETTE
SALINE
HOWARD
BOONE
AUDRAIN
MONTGOMERY
LINCOLN
ST. CHARLES
ST. LOUIS
WARREN
CALLAWAY
CASS
JOHNSON
PETTIS
COOPER
MONITEAU
COLE
OSAGE
GASCONADE
FRANKLIN
JEFFERSON
BATES
HENRY
BENTON
MORGAN
MILLER
MARIES
CRAWFORD
WASHINGTON
STE. GENEVIEVE
PERRY
CAPE GIRARDEAU
ST. CLAIR
HICKORY
CAMDEN
PULASKI
PHELPS
DENT
IRON
ST. FRANCOIS
MADISON
BOLLINGER
SCOTT
MISSISSIPPI
VERNON
CEDAR
POLK
DALLAS
LACLEDE
TEXAS
SHANNON
REYNOLDS
WAYNE
STODDARD
NEW MADRID
BARTON
DADE
GREENE
WEBSTER
WRIGHT
CARTER
BUTLER
PEMISCOT
JASPER
LAWRENCE
CHRISTIAN
DOUGLAS
HOWELL
OREGON
RIPLEY
NEWTON
MC DONALD
BARRY
STONE
TANEY
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C.R.J. 5-11-44

NMS
V. 50 11

U. S. DEPARTMENT OF COMMERCE, WEATHER BUREAU

UNIVERSITY OF ILLINOIS

CLIMATOLOGICAL DATA

19

MAR 3 1947

MISSOURI SECTION

H. F. WAHLGREN
ST. LOUIS, MO.

VOL. L NOVEMBER 1946 No. 11

PRICE: 5 CENTS A COPY; 25 CENTS A YEAR

GENERAL SUMMARY

This month was the wettest November in the 59 years that State-wide records have been kept for Missouri. It was also a very mild month and at many stations killing frost did not occur until the 11th or 12th, making the 1946 growing season one of the longest, if not the longest, of record at many stations.

The unusually mild weather was general over the entire State, with the Southeastern Division having the highest monthly average, 49.4°, which is 3.3° warmer than normal. The average for the Southwestern and Northern divisions was 47.5° and 44.1°, or 1.5° and 1.8°, respectively, warmer than normal. Only a very few individual stations, in widely separated sections of the State, had monthly averages slightly lower than normal. An unusually mild period prevailed the last two or three days of the month, over the southern and eastern portions of the State, maximum temperatures registering in the high 60's or low 70's on the 28th and 30th, which was the highest of record for the latter date at some stations. The minimum temperature of 13°, for this month, was the highest minimum recorded for November since 1934 and a higher minimum for that month has been recorded only eight times in the past 59 years. However, the all-time extremes of 90° and 9° below zero for the month remained unbroken. Minimum temperatures of 32°, or lower, occurred on an average of 12 days this month, for the State as a whole.

The month's precipitation was practically all in the form of rain, snowfall during the month being very light, local, and of little consquence. Only three stations, all in the extreme northwestern corner of the State, had more than a trace of snow. The greater part of the monthly precipitation occurred during the first half of the month; many stations, particularly in the Northern half of the State, received very little or no precipitation during the last half of November. The distribution was very irregular, ranging from 13.89 inches at Wasola to only 0.43 inch at Lexington. The Southwestern Division had the greatest monthly average, 8.03 inches, or 5.37 inches more than normal. The average for the Southeastern Division was 7.73 inches, or 4.47 inches more than normal. The Northern Division was relatively dry, by comparison, with only 3.57 inches; this is 1.35 inches above the average for that division. A number of stations in the southern half of the State received more than ten inches of rain during the month. The severe and persistent drought, which had prevailed continuously since July in the extreme southwestern corner of the State, was completely broken by heavy and frequent rains the first few days of November, after which there was too much moisture. Greatest 24-hour amounts of rainfall occurred on October 31st-November 1st, when 7.71 inches fell at Caplinger Mills, 6.12 inches at Hermann, and 5.33 inches at Owensville; these were the greatest amounts recorded for 24 hours in each of the three divisions of the State. Heavy rains which began the last of October continued with monotonous frequency the first ten days of November and caused rapid rises in most streams of the southern and eastern portions of the State, with moderate overflows in the Osage and Meramec rivers, and a minor overflow in the lower Missouri River.

(Continued on page 83)

PRESSURE, WIND, HUMIDITY, AND SUNSHINE

Stations	Sea-level pressure, extremes-inches				Wind				Relative humidity				Percentage of sunshine	Degree days
	Highest	Date	Lowest	Date	Average hourly velocity	Maximum velocity ¶	Direction of maximum	Date	12:30 a. m.	6:30 a. m.	12:30 p. m.	6:30 p. m.		
Columbia	30.71*	17	29.50*	24	7.9	23	n.	16	75*	77*	61*	66*	45	551
K. C. Airport	30.71	17	29.38	24	11.5	37	nw.	21	73	78	58	64	52	555
St. Joseph	30.70*	17	29.34*	24	9.6	33	nw.	21	77*	83*	61*	66*	48	619
St. Louis	30.71*	17	29.56*	24	11.8	40	sw.	24	80*	80	67	70*	47	476
Springfield	30.65	17	29.54	24	12.3	36	sw.	24	82	86	70	75	47	550
Cairo, Ill.	30.61	17	29.68	7	8.9	29	s.	16	..	84	63	..	53	394
....	.....	..	.....	..	....	..	......	..	..	..	..	..	..	....

* Data for Airport station. ¶ For 5-minute period.

COMPARATIVE DATA FOR NOVEMBER

Year	Temperature			Precipitation					Number of days			
	Average for State	Highest	Lowest	Average for State	Average, Northern Division	Average, Southwestern Division	Average, Southeastern Division	Snowfall, Average for State	Precip. .01 inch or more	Clear	Partly cloudy	Cloudy
1888	41.6	87	15	3.39	2.57	2.95	4.64	....	7	..	..	..
1889	39.9	76	6	3.52	3.16	3.12	4.29	0.6	7	..	..	..
1890	46.5	80	14	2.38	1.96	2.48	2.70	T.	5	..	..	..
1891	39.6	82	− 7	4.14	2.67	3.24	6.51	....	8	..	..	..
1892	40.1	79	9	2.75	2.17	2.14	3.95	1.0	6	11	7	12
1893	40.9	79	− 1	1.70	1.32	1.60	2.17	0.3	4	14	9	7
1894	41.0	80	3	1.56	1.59	1.71	1.39	T.	4	15	9	6
1895	41.6	82	− 4	3.60	2.62	3.42	4.76	3.2	8	10	7	13
1896	42.3	82	− 5	2.43	1.47	2.30	3.53	0.2	6	11	7	12
1897	43.4	82	− 3	2.63	1.92	2.02	3.96	T.	6	13	8	9
1898	39.9	79	− 8	2.32	2.03	2.43	2.50	2.3	6	14	8	8
1899	49.5	82	16	2.02	1.38	2.00	2.67	0.2	7	11	9	10
1900	43.7	84	7	2.99	1.52	2.71	4.75	0.2	6	15	7	8
1901	43.6	84	9	1.48	0.99	1.63	1.82	0.3	4	17	7	6
1902	50.1	85	18	3.73	3.05	3.64	4.51	0.4	9	8	9	13
1903	40.9	79	2	1.27	1.24	1.09	1.48	1.1	5	13	8	9
1904	46.3	83	11	0.22	0.18	0.24	0.24	T.	2	21	5	4
1905	45.8	83	2	1.87	2.36	1.35	1.89	T.	6	18	6	6
1906	42.5	88	− 3	3.56	2.55	2.68	5.44	5.0	8	12	6	12
1907	43.8	88	11	2.24	1.39	1.91	3.43	T.	4	19	4	7
1908	47.6	87	9	3.90	2.70	4.67	4.33	0.2	8	15	7	8
1909	53.6	87	11	4.32	3.92	4.98	4.05	0.4	8	12	7	11
1910	42.0	83	11	0.35	0 31	0.22	0.52	0.1	3	15	8	7
1911	39.1	83	− 3	2 63	2.07	2.78	3.04	1.1	7	13	6	11
1912	45.9	85	12	1.50	1.46	1.31	1.73	0.1	3	20	5	5
1913	51.7	80	11	2.71	2.61	2.69	2.83	T.	7	10	8	12
1914	48.6	89	2	0.69	0.36	0.64	1.08	0.1	3	19	6	5
1915	49.5	87	12	2.83	2.30	2.78	3.42	0.1	5	16	7	7
1916	46.9	85	3	2.46	2.25	2.63	2.51	0.1	4	19	4	7
1917	46.1	80	8	1.23	0.10	1.61	1.98	T.	3	14	5	11
1918	44.9	85	12	3.26	2.85	4.14	2.78	1.2	6	15	4	11
1919	42 2	78	2	3.57	3.06	3.19	4.45	1.0	6	15	5	10
1920	40.9	82	6	1.06	1.64	0.82	0.73	T.	6	12	6	12
1921	45.6	84	10	3.11	0.89	1.59	6.85	0.4	5	13	7	10
1922	47.8	84	15	3.68	3.70	3.97	3.38	T.	7	16	6	8
1923	45.1	79	14	2.25	1.39	2.79	2.57	3.0	6	15	6	9
1924	46.7	88	4	1.78	1.16	2.08	2 09	0.5	4	15	8	7
1925	42.8	80	− 2	3.05	1.74	2.78	4.63	2.0	6	16	6	8
1926	39.6	78	0	3.01	2.13	2.86	4.04	4.3	7	11	7	12
1927	46.8	89	12	3.66	2.07	3.78	5.13	0.9	7	6	9	15
1928	44.6	79	9	5.02	5.91	4.88	4.26	0.5	10	13	4	13
1929	39.0	78	− 8	1.46	1.40	1.00	1.98	2.1	6	11	8	11
1930	45.8	83	8	2.93	2.94	3.28	2.56	T.	5	18	5	7
1931	52.2	87	17	5.42	5.58	5.32	5.35	1.4	11	10	5	15
1932	39.5	75	− 9	1.87	1.55	2.11	1.95	4.5	5	16	5	9
1933	45.9	83	7	0.93	0.47	0.96	1.37	0.2	4	16	6	8
1934	48.5	81	16	5.71	5.62	5.84	5.67	4.6	10	14	5	11
1935	42.2	82	10	4.16	4.52	4.69	3.28	0.1	10	8	4	18
1936	42.2	79	0	1.89	1.15	2.04	2.49	1.4	3	21	4	5
1937	41.0	90	− 7	1.85	1.58	1.87	2.11	4.1	7	15	6	9
1938	45.9	89	2	4.28	4.01	4.64	4.20	1.3	6	17	5	8
1939	43.5	78	12	2.58	2.36	2.97	2.42	0.0	7	13	6	11
1940	42.2	83	− 2	3.46	2.77	3.31	4.29	1.2	9	12	7	11
1941	45.5	85	10	2.29	2.00	2.32	2.55	1.9	7	14	5	11
1942	47 9	82	6	4.27	3.81	3.42	5.58	0 8	11	11	6	13
1943	42.7	81	9	0.93	0.97	0.71	1.12	0.4	3	17	7	6
1944	47.0	88	1	2.34	2.89	1.98	2.16	0.2	9	7	8	15
1945	46.3	86	6	1.39	0.95	0.70	2.52	0.2	5	14	8	8
1946	47.0	81	13	6.44	3.57	8.03	7.73	T.	10	13	5	12
....	....	..	....	....	....	....	....	....	..	..	..	..
....	....	..	....	....	....	....	....	....	..	..	..	..
Period	**44.5**	**90**	**− 9**	**2.71**	**2.22**	**2.66**	**3.26**	**1.0**	**6**	**14**	**6**	**10**

NAT. HIST.

Climatological Data for November 1946

Stations	Counties	Elevation, feet	Temperature, in degrees Fahr.							Precipitation, in inches						Number of days				Prevailing direction of wind	Observers
			Length of record, years	Mean	Departure from the normal	Highest	Date	Lowest	Date	Length of record, years	Total	Departure from the normal	Greatest in 24 hours *	Date	Total snowfall, unmelted	With precip., .01 inch or more	Clear	Partly cloudy	Cloudy		
Northern Division																					
Albany	Gentry	930	5	43.1[b]	......	68[b]	20	13[a]	26	17	1.08	−0.63	0.63	9	T.	4	11[c]	9[c]	7[c]	nw.	Curtis E. Grace
Amity	DeKalb	1,007	0	42.9	......	66	20	16	26	11	0.87	−1.81	0.61	9	T.	6	13	3	14	s.	O. M. Colhour
Bethany	Harrison	916	51	42.6	− 0.2	66	20	14	26	53	1.16	−0.88	0.50	9-10	T.	5	17	3	10	se.	B. A. McGregor
Brookfield	Linn	767	5	43.4	......	65	1†	17	17	5	1.52	......	0.50	9	0	6	12	9	9	s.	G. F. Breen
Brunswick	Chariton	652	65	44.3	+ 2.7	67	1†	20	27	67	1.85	−0.34	0.48	9	0	9	16	1	13	nw.	O. K. Benecke
Canton, Lock & Dam 20	Lewis	488	8	46.0	......	65	15	22	17†	16	3.57	+0.86	1.64	2-3	0	8	12	7	11	sw.	Lockmaster
Carrollton	Carroll	754	0	43.9	......	65	1†	17	26	0	1.44	......	0.52	9	0	9	13	4	13	w.	Harold E. Finley
Chillicothe 2 mi ESE(C)	Livingston	771	37	42.8	+ 1.5	66	20	16	26	40	0.77	−1.35	0.48	9	0	7	10	4	16	w	Civil Areo. Authority
Columbia	Boone	740	56	46.8	+ 2.7	67	20	23	17	56	5.09	+2 89	1.54	2-3	T.	9	10	4	16	s.	U. S. Weather Bureau
Conception	Nodaway	1,108	57	42.7	+ 1.3	65	20	18	17†	62	1.23	−0.51	0 65	16	T.	5	9	10	11	nw	Fr. Adelhelm Hess
Edgerton	Platte	856	26	....	......	..	..	..	..	43	....	......	....	..	....	..	..	..	..	......	W. A. Foster
Elsberry	Lincoln	449	15	45.2	+ 1.8	68	15†	18	18	15	8.46	+5.64	3.25	31-1	0	10	15	4	11	nw.	Soil Conservation Service
Fayette	Howard	760	66	45.0	+ 2.8	66	12†	20	17†	63	4.19	+2.09	1.15	31-1	T.	12	15	1	14	s.	Irvin E. Schnell
Fulton	Callaway	818	58	45 2	+ 1.0	66	15	22	18	54	7.22	+4.91	3.37	31-1	T.	8	16	8	6	s.	Frank E. Hillgartner
Grant City	Worth	1,134	42	41.6	− 0.3	65	20	17	22	54	1.26	−0.59	0.55	15-16	0.5	6	15	3	12	n.	J. Homer Korn
Hannibal	Marion	759	54	44.6	+ 2.5	66	15	22	17	62	4.54	+2.48	1.35	9	T.	10	12	5	13	sw.	Hannibal Water Dept.
Kansas City Airport	Jackson	741	57	46.4	+ 2.7	69	20	23	26	57	0.58	−1.64	0.37	9	0	7	12	5	13	s.	U. S. Weather Bureau
Kansas City Univ	Jackson	908	8	46.4	.....	68	20	20	26	8	0.63	......	0.43	9	0	7	15	5	10	s.	University of Kansas City
Kidder	Caldwell	1,020	54	43.4	+ 1.6	66	20	18	17†	58	1.18	−0.97	0.89	9-10	0	6	14	3	13	n.	Mrs. Geraldine Terry
Kirksville	Adair	969	57	43.4	+ 2.8	64	1†	18	26	64	1.40	−0.72	0.55	9	0	8	17	6	7	s.	Dr. Willis J. Bray
Lawson	Ray	1,070	8	....	......	..	..	..	..	8	....	......	....	..	....	..	..	..	..	......	Elmer E. Lamb
Louisiana	Pike	469	52	46.4	+ 2.3	67	15	21	18	65	6.44	+3.98	2.25	31-1	T.	12	11	8	11	s.	Stark Bro's Nurseries
Macon	Macon	875	47	43.4	+ 0.6	66	1	19	17	53	1.83	−0.36	0.58	2	T.	6	11	4	15	nw.	John W. Atwell
Maryville	Nodaway	1,169	56	41.5	+ 2.1	64	15	16	26	52	1.52	−0 40	0.70	16	1.0	6	13	2	15	nw.	R. B. Montomery
Memphis	Scotland	787	7	41.6	......	68	1	17	26†	16	1.51	−1.48	0.53	9-10	0	6	10	6	14	nw	John W. Alexander
Mexico	Audrain	806	57	44.3	+ 1.4	68	15	21	17	68	5.39	+3.16	2.35	31-1	T.	8	12	1	17	se.	Darrence W. Stuart
Moberly 3½ mi. NE	Randolph	860	9	....	......	..	..	..	..	9	....	......	....	..	....	..	..	..	..	......	F. W. Bell
New Florence. 1 mi SE	Montgomery	885	3	44.6	......	66	30	22	18	4	6.10	......	1.79	31-1	T.	12	10	1	19	s.	U. S. Weather Bureau
Oregon	Holt	1,048	90	43.3	+ 2.8	67	20	18	26	90	0.69	−1.29	0.41	9-10	0.8	6	13	6	11	n.	James M. Curry
Polo	Caldwell	1,000	0	42.9	......	65	14†	17	26	0	1.34	......	0.64	10	0	6	14	5	11	se.	F. B. Albright
St. Charles	St. Charles	520	58	....	......	..	..	..	..	68	....	......	....	..	....	..	..	..	..	......	....
St. Joseph	Buchanan	957	36	44.5	+ 3.0	68	20	20	26	74	0.89	−0.69	0.56	9	T.	6	13	3	14	s.	U. S. Weather Bureau
Salisbury	Chariton	723	0	45.6	......	66	1	20	17	0	2.08	......	0.53	9-10	0	10	15	4	11	s.	David H. Robertson
Saverton, Lock No. 22.	Ralls	472	8	46.1	......	65	15	25	18	8	5 45	......	1.76	2-3	T.	8	11	7	12	nw.	Lockmaster
Shelbina	Shelby	779	5	44.7	......	66	14†	19	17	53	3 25	+1.15	1.04	2-3	T.	8	15	3	12	se.	Guyman Hatcher
Steffenville	Lewis	650	48	44.3	+ 0 8	68	3	18	17	53	2.65	+0 46	0.94	2	0	9	13	3	14	s.	Mrs. Fannie V. Gross
Tarkio	Atchison	916	43	41.0	+ 0.9	64	15†	16	25	52	1.50	−0.24	0 69	16	T.	5	14	6	10	nw.	C. A. A. Station
Trenton	Grundy	822	50	43.8	+ 1.6	66	15†	18	26	51	1 60	−0.52	0 97	9	0	5	10	12	8	s.	W. H. Estes
Unionville	Putnam	1,052	53	40.8	+ 0.5	64	20	14	26	53	1.61	−0 59	1.07	9	0	6	13	11	6	s.	Mrs. Dora A. Wilson
Vandalia	Audrain	766	2	45.6	......	74	22	22	17†	7	6.60	......	2.17	31-1	T.	10	16	8	6	n.	Mrs. Naomi K. Stoutz
Warrenton	Warren	816	64	46.4	+ 3.2	68	15†	20	18	56	10.43	+7.81	5.51	31-1	0	11	13	10	7	se.	W. T. Zimmerman
Keokuk, Iowa	Lee, Ia.	574	74	44.8	+ 3.7	67	15	23	17†	74	2 17	+0.23	0.67	2-3	0	9	16	4	10	ne.	U. S. Weather Bureau
Division means	**and extremes**	....	..	**44.1**	**+ 1.8**	**74**	**23**	**13**	**26**	..	**3.57**	**+1.35**	**6.12**	**31-1**	**0.1**	**8**	**13**	**5**	**12**	**s.**	
Southwestern Division.																					
Anderson 1½ mi SW	McDonald	1,000	42	46.5[a]	− 2.8	79[a]	14	17[a]	18	47	7.55	+4.20	1.98	5-6	0	10	15[a]	2[a]	12[a]	ne.	Samuel G. Chamberlain
Appleton City	St. Clair	813	51	46.0	0.0	69	20	20	26	54	5.37	+3.07	2.44	31-1	0	9	14	1	15	sw.	Rolla Brown
Bolivar	Polk	1,071	43	48.0	+ 1.2	67	20†	24	17†	51	6.30	+3.72	2.42	1	0	12	12	5	13	sw	Southwest Baptist College
Boonville	Cooper	650	8	44.4	......	66	1†	20	17†	69	5.23	+3.02	1.97	31-1	0	9	10	4	16	sw.	Boonville Water Dept.
Butler	Bates	865	0	46.0	......	69	28†	19	17	5	3.39	......	0.57	5†	0	10	14	5	11	sw.	Harley W. Johnson
Camdenton	Pulaski	940	0	49.6[a]	......	70[a]	30	25[a]	17	0	6.67	......	2.38	31-1	0	12	12[a]	5[a]	12[a]	s.	Mo. Conservation Com.
Carthage	Jasper	962	12	48 2	......	70	20†	24	22	22	6.08	......	2 47	31-1	0	9	12	10	8	n.	Carthage W. and E. Plant
Clinton	Henry	786	53	46.0	− 1.0	71	20	23	17†	59	3.66	+1.50	0.84	1	0	9	15	4	11	s	U. S. Weather Bureau
Eldon	Miller	934	51	47.5	+ 2.7	69	30	22	17	47	8.67	+6.22	3.94	31-1	0	12	13	3	14	s.	Ira M. Wilson
Harrisonville	Cass	904	68	44 2	+ 1.7	67	13†	16	26	71	2.09	−0.05	0.83	31-1	0	10	15	1	14	ne.	Jeffrey B. Patterson
Jefferson City	Cole	557	56	46.9	+ 2.8	74	2	22	18	64	7.78	+5.39	4.16	31-1	0	10	13	7	10	w.	K. W. O. S. Radio Farm
Joplin	Jasper	1,008	24	49.8	+ 1.5	70	20†	28	17†	41	6.10	+3.33	2.57	1	0	8	11	8	11	s.	Empire Dist. Electric Co.
Lakeside	Miller	595	15	47.8	+ 3.3	69	30	22	18	15	11.68	+7.97	6.26	31-1	0	10	15	1	14	ne.	W. S. Frame
Lamar	Barton	980	58	46.4	+ 0.1	72	20	23	26	65	7.62	+5.09	4.95	31-1	0	9	14	5	11	nw.	Mrs. Marie Mann
Lebanon	Laclede	1,265	58	47.8	+ 2.2	68	30	20	18	59	8.86	+5.72	3.70	1	0	11	11	7	12	sw.	Mrs. Rosa E. Montelius
Lexington	Lafayette	688	61	46.9	+ 2.7	69	20	21	17†	62	0.43	−1.69	0.25	1	0	3	19	3	8	s.	Tilton Davis
Lockwood	Dade	1,078	40	49 3	+ 2.3	70	20	25	18	50	5.44	+2.60	2.80	1	0	8	14	4	12	sw.	Hubert A. Nieman
Marshall	Saline	779	59	46.2	+ 1.0	67	14†	20	17	56	2.77	+0.45	0.74	31-1†	0	7	15	6	9	n.	Thomas A. Reid
Mountain Grove	Wright	1,463	45	48.4	+ 2.5	68	1	25	12†	49	9.62	+6 67	2.66	9	0	11	12	6	12	se.	Mo. Fruit Exp. Station
Mount Vernon	Lawrence	1,174	34	49.3	+ 3.5	74	1	25	12†	46	12.91	+9.97	4.70	6	0	13	16	5	9	sw.	James C. Williamson
Neosho	Newton	1,011	59	49.2	+ 1.9	70	1†	23	18†	63	7.40	+4.10	2.60	1	0	12	15	2	13	se.	U. S Fisheries Station
Nevada	Vernon	862	53	47 6	+ 2.8	70	20	21	26	54	7.34	+5 19	4.56	31-1	0	10	12	0	18	sw.	Henry Kraft
Ozark Beach	Taney	700	6	49.1	......	72	21†	22	18	21	13.00	+10 23	2.05	2-3	0	12	3	14	13	sw.	Empire District Elec. Co.
Sedalia	Pettis	910	33	47.0	+ 3.7	68	20	21	17†	35	4.75	+3.13	1.35	31-1	0	11	13	3	14	sw.	Dr. J. E. Cannaday
Seligman	Barry	1,542	45	48 8	+ 1.5	72	29	24	17	43	8.90	+5 81	1.94	5-6	0	11	12[a]	5[a]	12[a]	e.	Floyd E Fawver
Seymour 3½ miles NE	Webster	1,642	40	45 8	− 0.1	67	8	23	12†	40	11.50	+8.61	1 91	1	0	10	14	3	13	w	Ira H. Hailey
Springfield 4 mi. NW	Greene	1,301	58	46.6	+ 1.6	65	20	24	17	58	8 14	+5.35	2.58	1	0	11	7	8	15	s.	U. S Weather Bureau
Sweet Springs	Saline	700	5	46 2	......	68	20	20	17†	5	3.76	......	1.37	2	0	11	9	9	12	s.	H F. Nelson
Warrensburg	Johnson	878	59	46.4[c]	+ 1.4	68[c]	20	21[c]	23	66	2.93	+0.71	1.13	31-1	T.	9	15	2	13	nw	Central Teachers College
Warsaw	Benton	687	45	47.8	+ 0.6	70	20	22	17	51	6.72	+4.08	3.70	31-1	0	9	11	1	18	w.	Dora B. Johnson
Wasola	Ozark	1,294	5	52.8	......	75	1	26	17†	6	13 89	......	3.74	9	0	11	13	6	11	e.	A. W. Pinckney
Waynesville	Pulaski	805	0	46.8	......	72	30	17[a]	18	0	9 83	......	3.30	31-1	0	12	14	4	12	nw.	Jesse H. Barlow
Division means	**and extremes**	....	..	**47.5**	**+ 1.5**	**79**	**14**	**16**	**26**	..	**8.03**	**+5.37**	**7.71**	**31-1**	**0**	**10**	**13**	**5**	**12**	**sw.**	
Southeastern Division																					
Advance ¼ mile W	Stoddard	354	9	49.7	+ 3.6	79	3	25	23†	9	6.79	+3.51	1.76	1-2	0	12	11	2	17	s.	U. S. Weather Bureau
Arcadia	Iron	926	65	47.4	+ 3.5	70	2†	20	18†	68	9.16	+6.04	2.22	1-2	0	9	12	3	15	w.	Arcadia College
Birch Tree ½ mile E	Shannon	1,000	51	....	......	..	..	..	..	52	....	......	....	..	....	..	..	..	..	......	Mrs. Mildred E. Catlett
Black 9 miles NW	Iron	1,000	53	46.4	+ 1.7	69	30	16	18	53	7.50	+4 78	1.62	9-10	0	12	12	6	12	ne.	M. L Volmer
Campbell	Dunklin	314	20	52 6	+ 5 0	80	1	28	27	20	7.37	+3.67	1.60	1-2	0	11	12	8	10	s.	Mrs Ruth Christian
Cape Girardeau	Cape Girardeau	347	1	52 0	......	78	1	29	18	46	5.49	+1 91	1 60	25-26	0	10	13	6	11	n.	Dr Robert Martin
Caruthersville	Pemiscot	265	50	55.0	+ 4.6	80	2	33	23	54	5.92	+2.07	2.28	25-26	0	10	11	8	11	s.	Victor T. Malloure
Clearwater Dam	Wayne	648	0	50 0	......	80	1	19	18	0	6.23	......	1.60	9-10	0	10	10	6	14	s.	U. S. Engineer Office
Crystal City	Jefferson	420	12	49.0	+ 5.1	74	30	22	18	12	7.37	+3.95	1.94	9-10	0	11	13	2	15	sw.	Richard K. Ragland
Doniphan	Ripley	344	42	51.2	+ 3.9	80	1†	23	27†	42	6 57	+3.15	1.49	9-10	0	12	16	5	9	ne.	Boyce Lackey
Farmington	St. Francois	896	35	48.5	+ 3.7	69	2†	22	18	49	7 56	+4 74	1.64	1-2	0	11	13	1	16	s.	F. M. Karsch
Greenville	Wayne	460	37	49.6	+ 4.2	76	3	21	18	39	6.93	+3 57	2.29	1-2	0	10	15	5	10	se.	Beuford Shoemake
Jackson	Cape Girardeau	428	55	50.4	+ 3.8	75	1	25	28	56	5.96	+2.58	1.66	1-2	0	11	12	5	13	s.	Danny Siebert
Koshkonong	Oregon	958	45	48.0	− 1.0	76	1	20	18	46	8.25	+4.99	2.04	9-10	0	9	11	5	14	nw.	Mrs Genevieve T. Smith
Licking 4 miles N	Texas	1,170	9	47.3	+ 2.0	70	2	21	12†	9	10.17	+7.53	2.60	9	0	10	11	4	15	s.	Fern E. Austin

Continued on next page

Climatolcgical Data for November 1946—Continued from preceding page

Stations	Counties	Elevation, feet	Temperature, in degrees, Fahr.							Precipitation, in inches						Number of days				Prevailing direction of wind	Observers
			Length of record, years	Mean	Departure from the normal	Highest	Date	Lowest	Date	Length of record, years	Total	Departure from the normal	Greatest in 24 hours[4]	Date	Total snowfall, unmelted	With precip., .01 inch or more	Clear	Partly cloudy	Cloudy		
Southeastern Division—	*Concluded*																				
Marble Hill	Bollinger	532	51	50.5	+ 5.3	76	3	24	27†	53	4.68	+1.13	1.24	1–2	0	10	13	6	11	n.	R. A. DeWitt
Poplar Bluff	Butler	339	41	52.3	+ 4.6	81	1	27	27†	42	7.62	+4.14	2.06	1–2	0	11	13	0	17	nw.	Osmon M. Richardson
Rolla	Phelps	1,202	46	47.1	+ 2.1	69	30	23	17†	62	9.88	+7.20	3.30	31–1	0	10	5	11	14	e.	Rolla School of Mines
St. Louis:																					
City Office		465	109	49.0	+ 3.6	70	30	28	17	109	7.63	+4.80	1.97	9–10	T.	13	11	5	14	s.	**Section Center**
St. Louis Airport	St. Louis	556	9	47.5	+ 3.6	69	30	27	17†	15	8.71	+6.31	2.51	2–3	T.	12	10	1	19	s.	U. S. Weather Bureau
St. Louis University	St. Louis City	578	34	49.0	+ 3.3	70	30	27	17	34	9.00	+6.46	2.83	2	0	12	13	2	15	se.	St. Louis University
Salem	Dent	1,206	42	47.7	+ 1.6	70	30	19	18	45	8.45	+5.81	2.53	9–10	0	12	10	6	14	s.	E. E. Martin
Sikeston	Scott	318	39	51.2	+ 4.0	80	1	29	18	49	6.36	+2.80	1.84	25–26	0	11	14	6	10	s.	Mrs. Lucy W. Humphreys
Union 1½ mi. SE	Franklin	520	8	46.8	+ 0.7	69	30	20	18	29	11.18	+8.43	5.05	31–1	0	11	14	3	13	nw.	Cornelius Sieges
Vichy 2 mi. NW	Maries	1,125	10	46.6	......	68	30	24	18	11	8.57	......	3.13	1	0	10	8	5	17	s.	Civil Aero. Authority
Wappapello Dam	Butler	475	7	52.6[c]	......	79	1	30[f]	17†	7	6.63	......	1.54	1–2	0	11	10	4	16	nw.	U. S. Engineer Office
Webster Groves	St. Louis	507	0	47.6	......	70	2†	26	17†	1	10.10	......	2.78	31–1	0	12	15	1	14	se.	R. W. Lawrie
Weingarten	St. Genevieve	833	5	47.5	......	69	1†	22	18	6	5.89	......	1.95	9	0	9	13	4	13	n.	William J. Miller
West Plains	Howell	1,005	9	48.4	+ 3.1	71	1	22	18	9	9.01	+4.97	1.88	2–3	0	11	8	6	16	s.	U. S. Weather Bureau
Willow Springs 500 ft E	Howell	1,238	5	48.0	......	70	1	23	12	39	10.25	+6.91	2.20	9	0	10	13	4	13	s.	Allen Frazee
Cairo, Ill.	Alexander, Ill.	314	74	52.3	+ 5.0	78	1	32	18	75	6.01	+2.33	2.22	25–26	0	13	10	3	17	s.	U. S. Weather Bureau
Division means	**and extremes**	.....	..	**49.4**	**+ 3.3**	**81**	**1**	**16**	**18**	..	**7.73**	**+4.47**	**5.33**	**31–1**	**0**	**11**	**12**	**4**	**14**	**s.**	
State means	**and extremes**	.....	..	**47.0**	**+ 2.5**	**81**	**1**	**13**	**26**	..	**6.44**	**+3.73**	**7.71**	**31–1**	**T.**	**10**	**13**	**5**	**12**	**s.**	

The departures from normal temperature are computed from the averages of the entire period for stations having 10 or more years of record. Departures of precipitation for stations with 15 years or more of record are computed from a normal or "standard mean", adjusted to a uniform 35-year period; for stations of 10 to 14 years the means for the period of record are used. The normal may be found by adding the departures when minus (−) or subtracting when plus (+). Figures and letters following stations indicate distance in miles and direction of station from the city Post Office, unless otherwise indicated. T. Trace or 0.005 inch or less. [a], [b], [c], etc., number of days missing; for example, [b], indicates two days missing. Italics data interpolated. § Partly interpolated. † And other dates. ‡ Received too late to be included in means and summaries. [4] Best available used for stations not equipped with recorders. Post office address of: Altona is Adrian; Crane Mountain is Arcadia; East End is Goodland; Eastwood Lookout is Van Buren; Hailey is Cassville; High Lookout is Birch Tree; Macedonia Lookout is Doniphan; Perry is Center; Wilderness Lookout is Lampe. (C) Airport. ¶ Indicates plus.

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There were no damaging storms of any kind reported.

Frequent rains the first half of the month curtailed most field work and outdoor activities, but the latter half was more favorable and seasonable and outdoor work was resumed. Seeding of the winter wheat crop was completed as soon as the ground became dry enough and much fall plowing was accomplished. Early seeded small grains and pastures were greatly benefited by the mild, wet weather during the first half of the month and made excellent growth, thus providing abundant grazing for livestock; consequently very little dry feeding was necessary. Since there was no snow cover, grazing was possible throughout the month, except where fields were too soft from the frequent rains the first part of the month.

Threshing and combining of soybeans and lespedeza were mostly finished during the month with a record-breaking production of soybeans reported. Corn husking and cribbing made good progress the latter half of the month; yields were running high and quality good to excellent. There was practically no soft corn this year, as all of the crop matured before the first killing frosts or freezing temperatures, which occurred unusually late this fall, as a rule. Cotton picking was delayed by wet weather during much of the month, but was in full swing and about one-half completed at the close. All short water supplies were more than adequately replenished the first day or two of November, after which there was too much moisture until after the middle of the month. There was very little freezing of the soil during November and at the close of the month there was no freeze in the ground, except at a few extreme northern stations.—M. R. W.

TEMPERATURE

The monthly mean for the State, 100 stations reporting, was 47.0°, or 2.5° warmer than the 59-year November average. The highest monthly mean was 55.0° at Caruthersville, and the lowest was 40.8° at Unionville. The highest reported was 81° at Poplar Bluff on the 1st, and the lowest 13° at Albany on the 26th.

PRECIPITATION

The average for the State, 209 stations reporting, was 6.44 inches, or 3.73 inches more than the 59-year November average. The greatest monthly amount was 13.89 inches at Wasola, and the least was 0.43 inch at Lexington. The greatest amount reported in 24 hours was 7.71 inches at Caplinger Mills on Oct. 31st-Nov. 1st. The average number of days with 0.01 inch, or more, was 10.

Snowfall averaged only a trace, or 1.0 inch less than the 57-year November normal. The greatest monthly amount was 1.0 inch at Maryville.

MISCELLANEOUS PHENOMENA

Eclipse.—Solar, partial on the 23d.

Floods.—In Meramec River, at Pacific, on 4th; at Sullivan and below, 10th to 13th. In Mississippi River, at Louisiana, flood stage or higher continued from October to November 7th; also 10th to 11th; 17th to 21st; 23d to 24th; 29th. In Missouri River, in the reach from Hermann to the mouth, 2d to 5th. In Osage River, 1st to 8th; also 10th to 12th at Lakeside.

Fogs.—Heavy, 1st, 2d, 3d, 14th, 20th, 26th, 27th, 29th, 30th.

Frosts.—Light, 11th, 12th, 13th. Heavy, 11th, 12th. Killing, 10th, 11th, 12th, 13th, 17th.

Glaze.—23d, 24th, 25th, 26th.

Sleet.—9th, 11th, 24th, 25th.

Windstorms.—High wind on several days but no damaging windstorms reported.

Daily Precipitation for November 1946

Stations	Drainage-basins	Day of month																															Total
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	..	
Northern Division																																	
Albany	Grand	.09	....	....	....	....	.09	....	....	.63	....	....	....	....	....	....	.27	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1.08
Amity	do	.06	T.	T.	....	T.	.10	T.	....	.57	.04	....	....	....	....	.02	.08	....	....	....	....	....	....	....	....	T.	....	....	....	....	....	....	0.87
Auxvasse	Missouri	2.27	1.15	.56	.06	....	.55	.10	....	.53	.60	....	....	....	....	.11	.22	....	....	....	....	....	....	....	T.	.15	.10	....	....	....	....	....	6.40
Bethany	Grand	.14	....	....	....	....	.10	T.	....	.42	.08	....	....	....	....	T.	.42	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1.16
Bowling Green[2]	Mississippi	2.00	.32	1.86	.07	....	....	.93	....	....	.86	....	....	....	....	....	.33	....	....	....	....	....	....	....	....	.05	.31	....	....	....	....	....	6.73
Brookfield[2]	Grand	.40	....	.19	....	....	....	.05	.10	....	.50	....	....	....	....	....	.28	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1.52
Browning 3 mi. NE	do	.20	.05	.02	....	....	.02	T.	....	.46	....	....	....	....	....	.02	.21	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	0.98
Brunswick[2]	do	.37	.07	.32	.03	....	.27	.12	....	....	.48	....	....	....	....	....	.17	....	....	....	....	....	....	....	....	....	.02	....	....	....	....	....	1.85
Canton, Lock No. 20[2]	Mississippi	.40	.10	1.64	....	....	....	.51	.02	....	.66	....	....	....	....	....	.23	.01	....	....	....	....	....	....	....	....	....	....	....	....	....	....	3.57
Carrollton	Missouri	.11	.20	.04	....	....	.33	.01	....	.46	.06	....	....	....	....	T.	.17	....	....	....	....	....	....	....	....	.06	....	....	....	....	....	....	1.44
Centralia[2]	Mississippi	1.81	.04	1.80	.12	....	.10	.45	....	....	1.02	....	....	....	....	....	.09	....	....	....	....	....	....	....	....	....	.18	....	....	....	....	....	5.61
Chillicothe[2] (B)	Grand	.32	T.	.02	....	....	.02	.05	....	....	.41	....	....	....	....	....	.08	....	....	....	....	T.	....	....	....	....	....	....	....	....	....	....	0.90
Chillicothe[3] 2mi ESE (C)	do	.06	.02	....	....	....	.07	.01	....	.48	....	....	....	....	....	.01	.12	....	....	....	....	....	....	....	T.	....	....	....	....	....	....	....	0.77
Columbia[1, 5]	Missouri	1.56	1.51	.03	.19	....	.70	....	....	.78	....	....	....	....	....	.17	.01	....	....	....	....	T.	....	....	T.	.14	....	....	....	....	....	....	5.09
Columbia[5] 9 mi. WNW	do	2.13	1.21	.21	.27	....	.42	.16	....	.46	.30	....	....	....	....	.11	.02	....	....	....	....	....	....	....	T.	.11	.04	....	....	....	....	....	5.44
Conception	do	.06	....	....	....	....	.07	....	....	.40	.05	....	....	....	....	T.	.65	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1.23
Edgerton	do	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Edina[2]	Mississippi	.10	....	.60	....	....	....	.14	.02	....	.50	....	....	....	....	....	.02	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1.38
Elsberry S. C. S.[2]	do	3.25	.31	1.01	.30	....	.30	1.20	....	....	.86	....	....	....	....	....	.82	T.	....	....	T.	....	....	....	....	.03	.38	....	....	....	....	....	8.46
Fayette	Missouri	1.15	.80	.18	.12	....	.42	.09	....	.88	.24	....	....	....	....	.12	.03	....	....	....	....	....	....	....	.12	.04	....	....	....	....	....	....	4.19
Fulton[2]	do	3.20	.17	1.50	.08	....	T.	.59	....	....	.95	....	....	....	....	....	.38	....	....	....	....	....	....	....	....	....	.35	....	....	....	....	....	7.22
Gallatin[2]	Grand	.05	.05	....	....	....	.10	.07	....	....	.93	....	....	....	....	....	.05	....	....	....	....	....	....	....	....	T.	....	....	....	....	....	....	§1.25
Grant City	do	.20	T.	....	....	....	.14	....	....	*	.37	....	....	....	....	.12	.43	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1.26
Hannibal[1] (A)	Mississippi	.90	.90	.40	.02	....	.62	.07	....	1.35	....	....	....	....	....	.20	.02	....	....	....	....	....	....	....	T.	.06	....	....	....	....	....	....	4.54
Hannibal[2] (B)	do	1.60	.35	1.20	T.	.04	....	.70	....	....	2.04	....	....	....	....	....	.20	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	6.13
Hermann[2]	Missouri	6.12	.83	.99	.05	....	.06	.85	....	....	.71	....	....	....	....	....	.45	....	....	....	....	....	....	....	....	.10	.45	....	....	....	....	....	10.61
Kahoka[2]	Mississippi	....	.06	.70	....	....	....	.40	....	....	.50	....	....	....	....	....	.20	.08	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1.94
Kansas City Airport[1, 5]	Missouri	.02	T.	T.	....	.01	.10	T.	....	.37	....	....	....	....	....	.03	.02	....	....	....	....	....	....	....	....	.03	....	....	....	....	....	....	0.58
Kansas City University	do	.05	....	....	....	.03	.09	....	....	.36	.07	....	....	....	....	T.	.02	....	....	....	....	....	....	....	....	.01	....	....	....	....	....	....	0.63
Kidder[2]	Grand	.09	.03	T.	....	....	....	.13	....	....	.89	....	....	....	....	....	.03	.01	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1.18
King City	Missouri	.23	....	....	....	T.	....	....	....	.59	.15	....	....	....	....	.21	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1.18
Kirksville	Mississippi	.09	.09	.38	....	....	.02	.04	....	.36	.19	....	....	....	....	T.	.23	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1.40
LaBelle[2]	do	.18	.02	.85	....	....	....	.38	.03	....	....	....	....	....	....	....	.38	.10	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1.94
Lawson	Missouri	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Linneus	Grand	.29	T.	.01	....	....	.05	.14	....	.27	.06	....	....	....	....	T.	.21	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1.03
Louisiana (A)	Mississippi	2.25	.32	1.54	.06	....	.32	.45	....	.30	.56	....	....	....	....	.07	.20	....	....	....	....	....	....	....	....	.25	.12	....	....	....	....	....	6 44
Louisiana[2] (B)	do	2.19	.39	2.20	.03	.02	....	.83	....	....	.93	....	....	....	....	....	.32	....	....	....	....	....	....	....	....	.04	.32	....	....	....	....	....	7.27
Lucerne[2]	Grand	T.	.10	....	....	....	T.	T.	....	....	.66	....	....	....	....	....	.50	.60	....	....	....	....	....	....	....	T.	....	....	....	....	....	....	1.86
Macon[2]	Chariton	.33	.06	.58	....	....	....	.19	T.	....	.54	....	....	....	....	....	.13	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1.83
Madison[2]	Mississippi	1.12	.08	2.20	....	....	.05	.40	....	....	1.10	....	....	....	....	....	.12	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	5.07
Martinsburg[2]	Missouri	2.34	.30	1.72	.07	T.	.05	.75	....	....	.91	....	....	....	....	....	.33	....	....	....	....	....	....	....	....	.06	.32	....	....	....	....	....	6.85
Maryville	do	.15	*T.*	*T.*	....	T.	.20	.03	....	.38	.06	....	....	....	....	T.	.70	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1.52
Memphis[2]	Mississippi	.10	....	.50	....	....	....	.09	....	....	.53	....	....	....	....	....	.05	.24	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1.51
Mexico[2]	do	2.35	....	.85	.15	....	.13	.53	....	....	1.01	....	....	....	....	....	.19	....	....	....	....	....	....	....	....	T.	.18	....	....	....	....	....	5.39
Milan[2]	Grand	.12	.08	....	....	....	....	....	....	....	.78	....	....	....	....	....	.31	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1.29
Moberly[2] 3½ mi. NE	Mississippi	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Monroe City	do	1.16	.46	1.29	....	....	.22	.38	....	.69	.64	....	....	....	....	.11	.06	....	....	....	....	....	....	....	....	.06	....	....	....	....	....	....	5.07
New Florence[3, 5] 1 mi SE	Missouri	1.79	1.05	.25	.03	....	.88	.28	....	.83	....	....	....	....	....	.39	.20	....	....	....	....	T.	....	....	.05	.33	.02	....	....	....	....	....	6.10
Oregon	do	.02	....	.02	....	....	.18	....	....	.38	.03	....	....	....	....	....	.06	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	0.69
Palmyra[2]	Mississippi	.95	*	1.28	....	....	....	.58	....	....	1.10	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	3.91
Paris[2]	do	1.22	.08	1.59	.13	....	.03	.57	....	....	1.43	....	....	....	....	....	.10	T.	....	....	....	....	....	....	....	....	.02	....	....	....	....	....	5.17
Perry 1 mile E	do	1.42	.45	.70	.07	....	.35	.25	....	.55	.55	....	....	....	.05	.10	.03	....	....	....	....	....	....	....	....	.07	.05	....	....	....	....	....	4.64
Philadelphia	do	.50	.30	1.00	....	....	....	.30	.20	*	1.30	....	....	....	....	....	T	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	3.60
Polo[2]	Missouri	.42	.05	T.	....	....	....	*	.15	....	.64	....	....	....	....	....	....	.08	....	....	....	....	....	....	....	T.	....	....	....	....	....	....	1.34
St. Charles[2] (A)	do	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
St. Charles[2] (B)	do	5.25	.89	.87	.04	T.	T.	1.61	....	....	1.30	....	....	....	....	....	.55	T.	....	....	....	....	T.	....	....	.10	.69	....	....	....	....	....	11.30
St. Joseph[1, 5]	do	.07	....	....	....	.05	.08	....	....	.56	....	....	....	....	....	.05	.08	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	0.89
Salisbury	Chariton	.40	.34	.18	....	....	.31	.08	....	.42	.11	....	....	....	....	.01	.15	....	....	....	....	....	....	....	....	.08	....	....	....	....	....	....	2.08
Saverton, Lock No. 22[2]	Mississippi	1.30	.18	1.76	.06	T.	T.	.59	....	....	1.06	....	....	....	....	....	.34	T.	....	....	....	....	....	....	....	T.	.16	....	....	....	....	....	5 45
Shelbina	do	.86	.92	.12	....	....	.34	.19	....	.44	.34	....	....	....	....	T.	.04	....	....	....	....	....	....	....	....	T.	....	....	....	....	....	....	3.25
Shelbyville[2]	do	.77	....	1.18	....	....	....	.42	....	....	.73	....	....	....	....	....	.32	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	3.42
Steffenville	do	.31	.24	.70	....	....	.15	.37	....	.25	.46	....	....	....	....	03	.14	....	....	....	....	....	....	....	T	....	....	....	....	....	....	....	2.65
Tarkio[3]	Missouri	.13	T.	....	....	....	.40	.05	....	.23	....	....	....	....	....	T.	.69	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1.50
Trenton[2]	Grand	.03	T.	....	....	....	.01	.12	....	....	.97	....	....	....	....	....	.47	T.	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1.60
Troy[2]	Mississippi	3.80	.65	1.35	.05	T.	T.	1.60	....	....	1.02	....	....	....	....	....	.90	.10	....	....	....	....	....	....	....	....	.40	....	....	....	....	....	9.87
Unionville[2]	Chariton	.03	.05	.11	....	....	....	....	....	....	1.07	....	....	....	....	....	.07	.28	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1.61
Vandalia	Mississippi	2.17	.31	1.35	.10	....	.43	....	....	.84	.71	....	....	....	....	T.	.25	....	....	....	....	....	....	....	T.	.15	.29	....	....	....	....	....	6.60
Warrenton	do	5.51	.94	.39	....	....	.51	.55	....	.49	.56	....	....	....	....	.14	.81	....	....	....	....	....	....	....	....	.22	.31	....	....	....	....	....	10.43
Keokuk. Iowa[1]	do	.10	.66	.01	....	....	.58	.05	....	.50	.02	....	....	....	....	.22	.03	....	....	....	....	....	....	....	T.	....	....	....	....	....	....	....	2.17
Southwestern Division																																	
Altona[2]	Osage	1.56	....	.50	.03	....	.43	.08	....	....	.53	....	....	....	....	....	.23	....	....	....	....	....	....	....	T.	....	.10	....	....	....	....	....	3.46
Anderson[2] 1½ mi. SW	Neosho	.93	.95	1.01	.50	....	1.98	.03	....	.03	1.00	....	....	....	....	....	.40	....	....	....	....	....	....	....	....	....	.72	....	....	....	....	....	7.55
Appleton City	Osage	2.44	.84	.05	.27	.10	.38	....	....	.49	....	....	....	....	....	.48	....	....	....	....	....	....	....	....	....	.32	....	....	....	....	....	....	5.37
Ava Ranger Station[2]	White	.21	2.29	1.04	1.06	.21	.99	.72	....	....	2.51	....	....	....	....	....	1.26	....	....	....	....	....	....	....	....	.47	1.17	....	....	....	....	....	11.93
Bolivar	Osage	2.42	.51	.08	.37	.09	.97	....	....	.83	.06	....	....	....	....	.36	.10	....	....	....	....	....	....	....	....	.31	.20	....	....	....	....	....	6.30
Boonville[2] (A)	Missouri	1.97	.05	1.26	.18	....	.51	.07	....	....	1.03	....	....	....	....	....	.14	.02	....	....	....	....	....	....	....	....	....	....	....	....	....	....	5.23
Boonville[2] (B)	do	2.18	.09	1.23	.19	....	.18	.52	....	....	1.30	....	....	....	....	....	.14	....	....	....	....	....	....	....	....	....	.14	....	....	....	....	....	5.97
Bradleyville[2]	White	....	1.90	.98	1.14	.46	1 67	.72	....	....	2.64	....	....	....	....	....	1.44	....	....	....	....	....	....	....	....	.71	1.17	....	....	....	....	....	12.83
Buffalo[2]	Osage	2.45	.50	.80	.40	.17	.53	.49	....	....	.78	....	....	....	....	....	.37	....	....	....	....	....	....	....	....	.42	.44	....	....	....	....	....	7.35
Butler	do	1.30	.30	.04	....	.30	.27	....	....	.53	.04	....	....	....	....	....	.29	....	....	....	....	....	....	....	....	.28	.04	....	....	....	....	....	3.39
Camdenton	do	2.38	.84	.35	.21	....	.91	.06	....	.75	.30	....	....	....	....	.13	.18	....	....	....	....	....	....	....	....	*	.56	....	....	....	....	....	6.67
Caplinger Mills[2]	do	7.71	.10	.68	.28	T.	.34	T.	....	....	.22	....	....	....	....	....	.16	....	....	....	....	....	....	....	....	T.	.18	....	....	....	*	....	9.67
Carthage	Neosho	2.47	.77	....	.41	.52	.90	....	....	.27	....	....	....	....	....	.13	....	....	....	....	....	....	....	....	....	.45	.16	....	....	....	....	....	6.08
Cassville[2]	White	*1.17*	*.82*	*1.07*	*.81*	.26	.60	....	....	....	1.40	....	....	....	....	....	.45	....	....	....	....	....	....	....	....	.05	1.27	....	....	....	....	....	§7.90
Chadwick[2]	do	.58	1.17	1.86	.76	.47	1.61	.74	....	1.55	.02	....	....	....	....	....	.82	....	....	....	....	....	....	....	....	....	1.25	....	....	....	....	....	10.83
Clinton[3]	Osage	.84	.80	....	.28	.16	.34	....	....	.80	....	....	....	....	....	.14	.13	....	....	....	....	....	....	....	T.	.17	....	....	....	....	....	....	3.66
Concordia	Missouri	.60	.23	.14	.10	....	.33	....	....	.30	....	....	....	....	....	.02	....	....	....	....	....	....	....	....	....	.35	....	....	....	....	....	....	2.07
Crocker	Osage	4.02	1.00	1.09	.28	T.	*	1.62	....	*	1.61	....	....	....	....	*	.58	....	....	....	....	....	....	....	....	*	.86	....	....	....	....	....	11.06
Eldon	Missouri	3.94	.91	.62	.14	....	.79	.10	....	.50	.69	....	....	....	....	.19	.21	....	....	....	....	....	....	....	....	.40	.18	....	....	....	....	....	8.67
Eldorado Springs	Osage	5.10	.63	.04	.26	T.	.46	....	....	.17	....	....	....	....	....	.31	.05	....	....	....	....	....	....	....	....	.39	....	....	....	....	....	....	7.41
Elijah[2]	White	1.54	1.01	1.17	.36	....	1.06	.67	....	....	2.22	....	....	....	....	....	1.00	....	....	....	....	....	....	....	....	.12	1.65	....	....	....	....	....	10.80
Forsyth[2]	do	.30	2.05	2 05	1.27	.48	1.41	.85	....	....	1.93	....	....	....	....	....	1 25	....	....	....	....	....	....	....	....	.73	1.15	....	....	....	....	....	13.47
Galena[2]	do	.59	.74	1.15	1.12	.27	3.00	.85	....	.01	1.95	.03	....	....	....	....	.59	....	....	....	....	....	....	....	....	.19	1.20	....	....	....	....	....	11.69
Granby[2]	do	1.80	1.07	.80	.27	.02	2.49	.09	....	....	.70	....	....	....	....	....	.50	....	....	....	....	....	....	....	....	.03	.56	....	....	....	....	....	8.33
Hailey	do	1.74	1.51	1.75	1.85	1.24	2.10	T.	....	1.53	.04	....	....	....	....	.40	....	....	....	....	....	....	....	....	....	1.61	....	....	....	....	....	....	13.77
Harrisonville[2]	Osage	.83	....	.10	.04	.16	*	.24	....	....	.41	....	....	....	....	....	.20	....	....	....	....	....	....	....	....	.02	.09	....	....	....	....	....	2.09
Jefferson City[2] (A)	Missouri	3.86	.30	1.27	.08	....	.21	.47	T.	T.	.75	....	....	....	....	....	.33	....	....	....	....	....	....	....	....	.04	.47	....	....	....	....	....	7.78
Jefferson City[2] (B)	do	2.00	.22	1.21	.05	....	.26	.26	....	....	.60	....	....	....	....	....	.28	....	....	....	T.	....	....	....	....	.05	.40	....	....	....	....	....	5.33

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Stations	Drainage-basins	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	..	Total
Southwestern Division—	*Concluded*																																
Joplin[1]	Neosho	2.57	.52	.39	.10	.75	.84			.36															T.	.57							6.10
Lakeside[2], [5]	Osage	6.26	.39	2.08	.15	T.	.39	.42			1.05						.23						T.			.14	.57						11.68
Lamar[2]	Neosho	4.95	.15	.48	.22		.72	.10			.25						.35									T.	.40						7.62
Lebanon	Osage	3.70	.42	.47	.49	T.	.80			.47	.49					.45	.12									.75	.20						8.36
Lexington[2]	Missouri	*	.25	T.	T.	T.	.18																			T.							0.43
Lockwood	Osage	2.80	.47	T.	.51	.12	.72			.26						.16									T.	.40							5.44
Mansfield[2]	White	.78	1.48	.86	.61	.45	.61	1.09			2.30	.03					1.49									.36	.95						11.01
Marshall	Missouri	.74	.63	T.			.74			.31	.15					.02	.18									T.							2.77
Marshfield[2]	White	2.11	.58	1.02	.39	.16	.80	.47			1.06						.45									.07	.89						8.00
Mountain Grove[2]	Gasconade		.75	1.13	.29	.86	.17	.38	.88		2.66						.96									.38	1.16						9.62
Mount Vernon	Neosho	3.59	.55	.15	.62	.48	4.70	.71		.84	.06					.44	.10									.43	.24						12.91
Neosho	do	2.60	.80	.01	.30	.81	1.12			.60	.03					.44	.02								*T.*	.49	.18						7.40
Nevada	Osage	4.56	.35	T.	.32	.55	.44			.33	.04					.31									T.	.40	.04						7.34
Osceola[2]	do	4.41	.09	1.05	.26		.35	.30			.41						.19										.33						7.39
Ozark[2]	White	1.26	.71	.95	.71	.38	1.80	.68			1.88						.62									.22	.78						9.99
Ozark Beach[2]	do	.77	1.25	2.05	1.45	.34	1.56	.71		.16	1.69						1.22									.66	1.14						13.00
Pierce City[2]	Neosho	2.30	.75	.70	.32		2.47	.24		.11	.98						.57										.64						9.08
Pineview Lookout	White															.50	.14									1.32							....
Pleasant Hill[2]	Osage	.66	.03	.12			.30	.15			.44						.22									.03	.03						1.98
Roby	Gasconade	2.18	.50	.18	.78	.03	.67	.16		1.10	.85					.35	.42				T.					1.00	.25						8.47
St. Thomas[2]. 2¼mi SW	Osage	7.00	.62	2.00	.15		*.40*	.71			.81						.31									.28	.45						§12.73
Sedalia	Missouri	1.35	.50	.17	.40		.70			.84	.32					.15	.10									.10	.12						4.75
Seligman[2]	Neosho	.85	.86	1.41	1.30	.13	1.62	.32		*	1.19															.33	.89						8.90
Seymour[2]....3½ mi. NE	White	1.91	1.26	1.78	.56	.48	1.31	.82			1.39						.75	T.								T.	1.24						11.50
Shell Knob[2]...3 mi. SE	do																																....
Siloam Sprgs Lookout[2]	do		1.37	1.76		.18	.28	.76			1.73						.94									.37	1.63						9.02
Springfield[1], [5]. 4 mi. NW	do	2.58	1.01	.11	.48	.46	1.03			1.14						.43	.06								.07	.77	T.						8.14
Stover[2]	Missouri	3.30	.03	1.32	.22		.42	.32			.62						.21	T.									.28						6.72
Sugar Camp Lookout[2]	White																																....
Sweet Springs	Missouri	.91	1.37	.06	.11		.43	.02		.46	.05					.02	.22								T.	.11							3.76
Tecumseh[2]...¼ mi. W	White																																....
Topaz[2]	do		1.63	.70	.73	.23	.36	.66			2.35						1.27									.20	1.85						9.98
Vanzant[2]....3¾ mi. SE	do		1.34	.63	.43	.33	.35	1.01			2.80						1.28									.32	1.60						10.09
Waco[2]	Spring																																....
Warrensburg	Missouri	1.13	.42	.17		.12	.17			.47						.04								T.		*	.41						2.93
Warsaw[2]...........(A)	Osage	3.70	.15	.95	.42		.12	.32			.41						.35										.30						6.72
Warsaw[2]...........(B)	do	4.92	.99	.09	.43		.70	.27			.34						.37										.22						8.33
Wasola[2]	White	.19	1.59	.70	1.09	.91	1.20	1.10			3.74						1.55									.37	1.45						13.89
Waverly[2]‡	Missouri	.69	.07	.20	T.		.08	.34			.38						.22									*T.*	*.01*						§1.99
Waynesville	Gasconade	3.30	.60	.80	.49	T.	.87	.90		.52	.50					.37	.19									.71	.58						9.83
Wilderness Lookout[2]	White	.82	1.47	1.81	1.56	.26	1.95	.58			1.87						1.10									.72	1.21						13.35
Southeastern Division																																	
Advance[3].....¼ mile W	St. Francis	1.16	.60	.62	.24		.30	.16		1.07	.15	T.				.28	.55									1.21	.45						6.79
Alton.......10 miles SE	Black	.79	.99	.54	.16		.15	.81		.53	1.23					.08	.69									.84	.47						7.28
Annapolis[2].....7 mi. W	do	.10	1.98	.70	.06	.01	T.	1.23			1.37						.70	.02								.12	1.33						7.62
Arcadia[2]	St. Francis	.28	2.22	1.66	.09	.05		1.25			1.35						.66									T.	1.60						9.16
Belleview[2]	Meramec	.15	1.57	.51	.06	.12	T.	.94			1.26						.66	T.			.01					.21	1.27	.01					6.77
Bernie[2]	St. Francis		1.85	.42	.17	.19		.51			1.07	.14					.62	.41								T.	1.33	.02					6.73
Birch Tree[2] ...½ mile E	Black																										*	.94					....
Black...... 9 miles NW	do	1 21	.70	.46	.20		.10	1.08		.76	.86					.05	.71									.90	.47						7.50
Bloomfield[2]	St. Francis		1.69	.64	.07	.34		.48			1.12	.26					.52	.39								.03	2.22	.07					7.83
Bunker[2]... 4 miles NW	Black		.52	T.	2.23	T.	.47	1.00			2.00						1.10	.02		.02					T.	1.50	.67						9.53
Campbell	St. Francis		1.60	.37	.23			.61		.18	1.06	.06				T.	.92	.06								1.23	1.05						7.37
Cape Girardeau....(A)	Mississippi		1.43	.47	.18			.35		.15	.55	.06					.70	T.								.74	.86						5.49
Cape Girardeau[2]...(B)	do	.02	1.34	.41	T.	.38		.32			.81	.06					.35	.36								.02	.38	.03					4.48
Caruthersville[2]....(A)	do		.38	.21		.03		.68			1.09	.22					.21	.71								.11	2.28	T.					5.92
Caruthersville[2].. (B)	do		.57		.05			.80			1.03	.05					.30	.62								.50	2.00						5.92
Centerville(1)[2]	Black	.18	1.30	.30	.60	.05	.02	1.15			1.35						.65									.40	1.10						7.10
Centerville(2)[2]	do	.13	1.28	.76	.09	.01	.02	1.12			1.35						.66	T.								.38	1.13						6.93
Clearwater Dam[2]	do	.04	1.21	.53	.07	.03		.87			1.60						*	.65									1.23						6.23
Cook Station[2]	Meramec	1.98	.96	2.05	.23	.21	.52				2.52						.62										.92						10.01
Crane Mountain[2]	St. Francis	.22	1.93	1.84	.05			1.26			1.32						.68									.20	1.24						8.74
Crystal City	Mississippi	1.51	.15	1.31	.11		.08	.84	T.	.51	1.43	T.					.52									.14	.77						7.37
Cuba	Meramec	3.52	.83	.18	.33		.39	.47		.36	1.43					.11	.53									.36	.68						9.19
Deering[2]	St. Francis		1.15	.03		.02		.75			1.48	.15					.25	.42								.09	1.79						6.13
De Soto	Mississippi	2.03	60	.84	.13		.07	.97		.47	1.80						.40									.46	.59						8.36
Dexter[2]	St. Francis		1.92	.84		.36		.57			1.10	.14					.52	.48								T.	1.78	.04					7.75
Doniphan(1)	Black	.80	.88	.12	.35		.33	.39		.63	.86	.09				T.	.65									1.06	.41						6.57
Doniphan(2)[2]	do		1.30	1.29	.25			.85			1.35						.55	.12									1.50						7.21
East End[2]	Meramec	.27	1.38	.66	.12		.50	.48			1.80						.90									.27	1.05						7.43
Eastwood Lookout[2]	Black		1.44	.43	.25	.16	T.	1.13		*	2.90						.58									*	1.45						8.34
Ellington[2]	do		1.30	.65	.09	.02		*	.97		1.28						.77	.02								.19	1.26						6.55
Ellsinore	do		1.70		1.30			.30			1.50					T.	.67									.65							6.12
Farmington[2]	St. Francis	.30	1 64	1.15	.02	.14		1.08			1.20						.37	.02								.25	1.39						7.56
Fisk[2]	do		1.48	1.31	.14	T.		.58			2.10	.24					.59	.39									1.87						8.70
Fredericktown[2]	do	.13	1.90	.49	T.	.04		.78			1.12						.28	.05								.20	1.33						6.32
Gerald	Meramec	3.82	1.07	.30	.02		.51	.43		.44	.84					*	1.32									.39	.44						9.58
Greenville(1)	St. Francis	.52	1.77		.14		.16	.98		.33	.98						.67									.98	.40						6.93
Greenville[2](2)	do	.01	1.61	.50	.06	.05		1.18			1.50						.51	.12								.02	1.11						6.47
High Lookout[2]	Black		1.00	1.05	.26	1.35				T.	1.84						.86									.10	1.41						7.87
Jackson	Mississippi	.11	1.66	1.02	.16		T.	.31		.21	.59	.03					.53									.79	.55						5.96
Jefferson Barracks	do																																....
Jerome[2]	Gasconade	3.64	.76	1.08	.54		.24	.72			1.18						.64									.12	1.02						9.94
Koshkonong[2]	Black		.88	.72	.35	.02	23	1.34			2.04	T.					.93									T.	1.68						8.25
Leeper[2]	do	.05	1.38	.80	.08	.05	T.	.93			1.72						.50	T.			T.					.10	1.09						6.70
Licking[2]	Gasconade	.10	1.86	.68	.36	.44	.10	2.07			2.60						.70										1.26						10.17
Macedonia Lookout[2]	Black		1.76	.73	.16	.04		.97			.95						*	.52								*	.94						6.07
Marble Hill	Mississippi	.24	1.24	.82	.21			.50		.19	.60						.19									.40	.29						4.68
Morehouse	do		1.72		.35			.42		.40	.47	.60					.75									.82	.94						6.47
Moselle[2]	Meramec	3.38	.95	.92	.13		.04	.97			1.48						.29									.33	1.03						9.52
New Madrid[2]	Mississippi		1.55	.43		.23		.59			1.53	.11					.24	.40								T.	2.24	.06					7.38
Oates Tower[2]	Black	T.	1.04	.92	.11	.03	.03	1.00			1.43	T.					.66				.01					.36	.72						6.31
Owensville[2]	Gasconade	5.33	.82	.92		.15	.21	.81			1.07						.52									.10	.71						10.64
Pacific[2]	Meramec	4.00	.94	T.	.13		T	1.15			1.88	..					.40									*	1.28						9.78
Parma[2]	St. Francis		1.79	.26		.19		.69			1.28	.12					.39	.43									2.00	.06					7.21
Perryville	Mississippi	1.24	.52	.24			.30	.32		.40	.44					.17	.40									.53	.51						5.07
Poplar Bluff[2]	Black		2.06	.74	.22	.04		.75			1.37	T					.60	.27								.34	1.22	.01					7.62
Puxico[2]	St. Francis		1.77	1.52	.01	.32		.69			1.14	.01					.56	.32								.01	1.29	.02					7.66
Qulin[2]	do		2 69	.65	.13	.18		.42			1.02	.03					.65	.38								.03	1.78	T.					7.96
Reynolds[2]	Black	.13	1.24	.68	.10	.05	.05	1.10			1.35						.75									.34	1.04						6.83
Richwoods[2]	Meramec	2.00	1.01	.99	.18		.25	.72			2.25						.56									.03	.70						8.69
Rolla[2]	do	3.30	.60	1.15	.25	*T.*	.30	.88			1.78						.57	*T.*								.15	.90						9.88
Round Spring[2]	Black		1.49	2.27		.30	.05	.77			1.85						.90									.40	1.38						9.41

Continued on next page

Daily Precipitation for November 1946—Continued from preceding page

Stations	Drainage-basins	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	..	Total
Southeastern Division — Concluded																																	
St. Louis:																																	
City Office[1], [5]	Mississippi	1.36	1.62	.09	.04	....	.85	.12	....	1.96	.01	T.	....	....	....	.34	.13	....	....	....	....	T.	....	....	.18	.86	.07	....	....	....	....	....	7.63
Airport[3], [5]	Missouri	2.18	2.45	.07	.04	....	1.09	.13	....	1.18	T.	T.	....	....	....	.29	.19	....	....	....	....	T.	....	....	.14	.91	.04	....	....	....	....	....	8.71
St. Louis Univ.[1], [5]	Mississippi	1.35	2.83	.23	.03	....	1.08	.09	....	1.66	....	....	....	....	....	.40	.17	....	....	....	T.	T.	....	....	.12	.95	.09	....	....	....	....	....	9.00
Washington Univ.[2]	....do	3.25	.55	2.75	.07	....	....	1.24	....	....	1.72	....	....	....	....	....	.57	....	....	....	....	....	....	....	....	.26	.88	....	....	....	....	....	11.29
Salem	Meramec	1.84	1.38	.10	.58	....	.28	.08	....	1.44	1.09	....	....	....	....	.13	.40	....	....	....	....	....	....	....	....	.79	.34	....	....	....	....	....	8.45
Sikeston[2]	Mississippi	....	1.54	.25	....	.13	T	.58	....	....	1.16	.10	....	....	....	....	.29	.43	....	....	....	....	....	....	....	.02	1.82	.04	....	....	....	....	6.36
Steelville[2] ...2½ mi. NE	Meramec	2.26	1.00	1.70	....	.23	.46	.63	....	....	1.63	....	....	....	....	....	.46	....	....	....	....	....	....	....	....	....	1.10	....	....	....	....	....	9.47
Sullivan[2]	....do	2.42	1.07	.92	.25	T.	.05	.86	....	....	1.67	....	....	....	....	....	.52	....	....	....	....	....	....	....	....	.13	.99	.02	....	....	....	....	8.90
Summersville[2]	Black	....	1.41	1.25	.23	.21	.05	.70	....	....	2.06	....	....	....	....	....	1.08	....	....	....	....	...	....	....	....	.37	1.33	....	....	....	....	....	8.69
Union[2] ....1½ mi. SE	Meramec	5.05	1.01	1.32	.11	....	.03	.87	....	....	1.15	....	....	....	....	....	.39	.07	....	....	....	....	....	....	....	.25	.93	....	....	....	....	....	11.18
Valley Park[2]	....do	2.98	.82	1.92	.07	T.	T.	1.44	....	....	2.10	....	....	....	....	....	.54	....	....	....	....	....	....	....	....	.32	.93	....	....	....	....	....	11.12
Van Buren[2]	Black	....	1.22	.39	....	....	....	1.26	....	....	1.72	....	....	....	....	.72	T	....	....	....	....	....	....	....	....	....	.95	....	....	....	....	....	6.26
Vichy[3] .....2 miles NW	Meramec	3.13	1.01	.02	.23	....	1.06	....	....	1.09	....	....	....	....	....	.49	.15	....	....	....	....	....	....	....	.29	1.10	T.	....	....	....	....	....	8.57
Wappapello Dam[2]	St. Francis	....	1.54	.78	.37	.01	....	.76	....	....	.95	....	....	....	....	....	.64	.14	....	....	....	....	....	....	....	.45	.98	.01	....	....	....	....	6.63
Webster Groves	Mississippi	2.78	1.80	.80	.07	....	.73	.47	....	.74	1.02	....	....	....	....	.09	.44	....	....	....	....	....	....	....	....	.91	.25	....	....	....	....	....	10.10
Weingarten	....do	1.20	.30	.50	.05	....	....	....	....	1.30	.65	....	....	....	....	....	.42	....	....	....	....	....	....	....	....	.80	.67	....	....	....	....	....	5.89
West Plains[3]	Black	1.19	1.76	.22	.26	.23	.86	....	....	1.75	T.	....	....	....	....	.44	.42	....	....	....	....	T.	....	....	....	1.81	.07	....	....	....	....	....	9.01
Williamsville[2]	....do	....	1.56	.63	.02	....	....	1.21	....	....	1.33	....	....	....	....	....	.56	.17	....	....	....	T.	....	....	....	....	1.36	.02	....	....	....	....	6.86
Willow Springs[2] 500 ft E	White	....	1.56	2.00	.31	.22	.12	.68	....	....	2.20	....	....	....	....	....	1.21	....	....	....	....	....	....	....	....	.42	1.53	....	....	....	....	....	10.25
Winona Ranger Sta.[2]	Black	....	1.44	....	....	.50	.40	.20	....	....	....	....	....	....	....	....	.92	....	....	....	....	....	....	....	....	.10	1.40	....	....	....	....	....	4.96
Zalma[2]	Mississippi	....	1.47	1.38	.08	.15	....	.62	....	....	.95	.03	....	....	....	....	.50	.21	....	....	....	....	....	....	....	.06	1.65	.01	....	....	....	....	7.11
Cairo, Ill.[1], [5]	....do	.38	.71	.01	.09	....	.53	.26	....	.37	.71	.03	....	....	....	.02	.62	....	....	....	....	T.	....	....	....	1.30	.98	....	....	....	....	....	6.01
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....

Except as otherwise indicated, amounts are for 24 hours ending late in afternoon. [1] Midnight to midnight. [2] Measured in the morning; for the preceding 24 hours. [3] Data for 24 hours ending 12:30 A. M. (C. S. T.) of following day. [5] Recording gage. T. Trace or 0.005 inch or less. * Included in next measurement. // Windshield on gage. Italics data interpolated. § Partly interpolated. (A) Record from cooperative station gage. (B) Record from river station gage. (C) Airport ‡ Received too late to be included in means and extremes.

Daily Evaporation (inches), Mean Temperature (F°), and Wind Movement (miles) for November 1946

(See precipitation data in daily precipitation table)

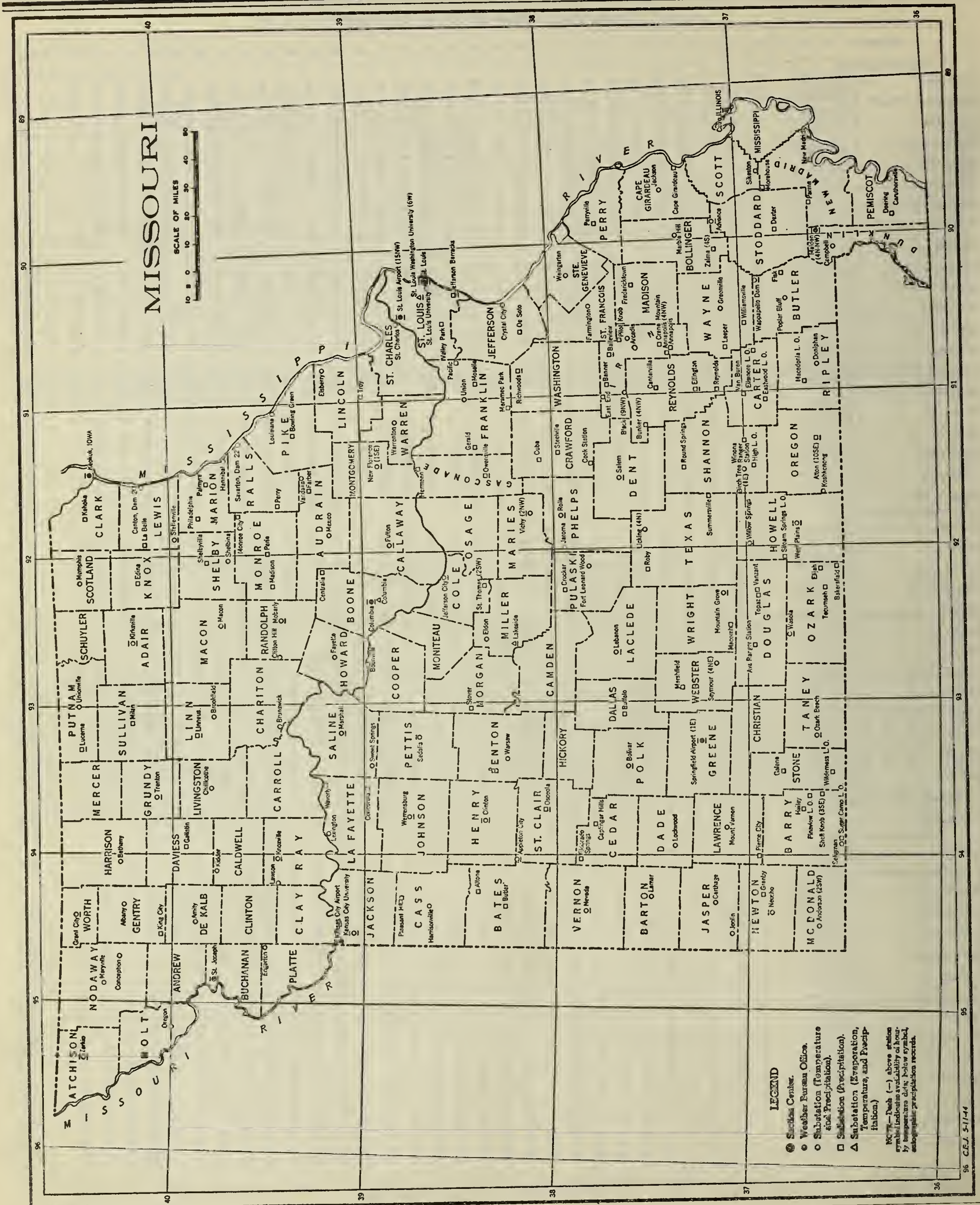
Station	Data	Day of month																															Monthly
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	..	
Columbia (Univ. of Mo. Hort. Exp. Sta. 9 mi. WNW.)	Evaporation	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	......
	Mean temperature	56	54	51	50	45	48	47	46	42	46	37	41	46	50	52	44	32	37	46	50	50	36	45	55	46	35	40	47	43	48	..	45.5
	Wind movement	117	23	90	70	27	89	126	92	47	148	55	35	27	22	67	159	19	28	39	41	140	20	64	199	97	39	43	84	35	52	..	2,094
Lakeside (Osage Dam)	Evaporation	....	....	....	.005	.106	.054	.000	.073	.065	.056	.055	.049	.070	.057	.083	.069	.068	.048	.043	.047	.093	....	....	.133	.062	.002	.035	.055	.068	.050	....	1.735
	Mean temperature	58	58	53	52	48	50	50	50	50	44	42	44	46	50	49	54	40	40	46	49	50	44	46	48	46	40	43	48	50	50	..	47.8
	Wind movement	81	40	61	69	48	84	83	154	56	140	90	53	36	29	18	159	96	39	12	29	111	73	21	150	124	54	27	33	36	22	..	2,028
St. Louis (Washington University)	Evaporation	....	.030	....	.056	.066	.033	.127	.002	.032	.024	.053	.023	.037	.040	.055	.067	*	*	.133	.030	.044	.068	.038	.031	.208	.015	.026	.049	.061	.018	....	1.464
	Mean temperature	57	63	56	51	47	50	52	49	48	48	39	42	45	52	54	54	34	40	46	49	50	38	46	48	36	40	42	48	46	53	..	47.5
	Wind movement	51	21	27	74	60	45	33	60	33	55	45	31	18	18	16	89	82	50	20	32	51	62	24	88	94	83	25	51	47	15	..	1,400

Observations taken at 8:00 a. m. except at 5:00 p. m. at Columbia. For Lakeside and St. Louis (Washington University) descriptions see April 1932 and August 1938 reports, respectively. * Included in next measurement.

Daily Temperatures for November 1946

Stations		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	..	Mean
Northern Division																																	
Brunswick/	Maximum	67	52	55	59	55	54	51	48	54	43	47	56	60	67	62	53	44	53	60	65	59	45	59	65	34	48	51	63	53	59	..	54.7
	Minimum	49	50	47	46	36	38	44	41	41	40	37	28	28	31	34	47	21	21	25	29	38	24	25	33	30	22	20	30	31	30	..	33.9
Chillicothe Airport	Maximum	61	50	53	55	53	51	53	50	51	52	47	51	58	65	60	53	44	52	59	66	58	45	58	63	33	51	48	61	50	55	..	53.5
	Minimum	49	45	46	36	34	43	42	41	38	36	32	27	30	33	46	26	18	27	28	35	25	21	28	29	23	16	26	27	26	29	..	32.1
Columbia	Maximum	63	54	56	56	57	52	50	52	54	55	43	57	61	67	66	55	47	53	64	67	62	49	62	65	37	50	50	67	57	66	..	56.5
	Minimum	54	50	49	43	40	45	45	43	43	34	31	28	31	38	47	29	23	27	37	44	32	27	39	37	31	26	34	34	33	37	..	37.0
Fayette	Maximum	66	57	56	55	56	51	51	50	49	55	45	52	59	65	60	52	45	51	62	65	60	48	61	63	45	48	50	65	55	63	..	55.3
	Minimum	51	49	47	44	36	45	43	42	39	38	31	26	29	34	40	36	20	24	30	33	37	20	29	45	30	22	32	28	30	32	..	34.7
Grant City	Maximum	56	57	55	56	53	50	51	50	44	46	46	51	55	63	61	52	39	51	60	65	58	46	56	60	35	54	46	58	46	47	..	52.2
	Minimum	44	41	39	34	33	34	35	40	36	34	33	25	31	30	47	28	18	26	32	36	33	17	24	32	20	18	27	29	26	24	..	30.9
Hannibal	Maximum	62	55	56	54	55	54	53	48	49	53	45	51	55	63	66	55	41	50	60	59	60	40	59	61	36	48	46	62	48	63	..	53.7
	Minimum	50	49	48	42	37	45	45	39	39	39	35	30	31	38	42	30	22	26	36	36	30	24	28	34	30	25	34	34	29	35	..	35.4
Kansas City Airport	Maximum	58	53	54	56	52	55	51	50	55	52	49	55	61	67	61	55	46	55	61	69	59	53	60	67	33	53	50	65	60	57	..	55.7
	Minimum	50	45	46	41	39	46	43	44	42	34	31	32	36	41	53	30	24	32	38	46	33	28	43	30	27	23	34	37	32	34	..	37.2
Kirksville	Maximum	64	52	53	54	55	50	53	49	45	51	46	51	55	64	64	52	40	51	60	63	57	40	58	62	40	49	45	60	52	57	..	53.1
	Minimum	48	45	45	40	34	43	42	42	36	37	35	28	29	34	39	34	19	26	31	37	34	21	28	39	27	18	31	28	26	32	..	33.6
Lawson	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
Louisiana	Maximum	63	62	58	58	55	53	53	50	49	55	45	55	57	65	67	55	44	50	62	60	62	42	60	63	61	49	50	64	59	66	..	56.4
	Minimum	51	52	52	46	33	46	44	46	38	42	37	26	28	35	38	40	24	21	30	35	40	28	24	50	34	32	34	24	30	29	..	36.3
Macon/	Maximum	66	50	55	55	55	50	52	46	54	42	46	54	58	64	65	52	41	51	65	65	58	44	59	64	34	47	47	62	49	59	..	53.6
	Minimum	47	47	46	42	35	37	44	43	38	38	35	28	30	31	39	45	19	21	24	33	36	23	23	39	28	20	21	27	26	27	..	33.1
Maryville	Maximum	53	49	52	54	51	50	50	51	43	45	47	52	57	62	64	51	39	52	59	63	57	42	58	61	31	54	39	58	48	42	..	51.1
	Minimum	44	43	42	34	37	43	41	40	37	33	31	24	29	34	46	31	20	28	29	38	30	17	30	31	20	16	27	30	25	26	..	31.9
Mexico /	Maximum	63	53	55	55	55	52	49	47	57	48	42	45	58	54	68	53	43	52	61	65	60	46	59	63	34	47	49	65	52	64	..	53.8
	Minimum	49	50	48	44	35	40	44	44	38	39	35	28	30	34	39	47	21	22	26	33	42	26	26	34	31	25	25	31	29	30	..	34.8
Moberly /	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
Oregon	Maximum	54	51	52	57	51	52	49	51	44	47	49	52	59	65	62	54	44	54	62	67	62	46	57	63	33	57	48	60	52	43	..	53.2
	Minimum	45	43	41	35	35	43	42	41	37	33	26	27	34	37	49	30	20	29	37	42	34	20	37	30	21	18	29	33	27	27	..	33.4
St. Charles /	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
St. Joseph	Maximum	53	48	53	58	51	52	50	52	49	49	48	52	59	66	62	54	44	54	62	68	56	48	58	64	32	56	49	61	52	48	..	53.6
	Minimum	48	43	44	39	28	41	43	43	40	35	30	31	37	42	51	29	22	31	38	41	29	25	39	28	23	20	32	37	30	30	..	35.4
Trenton	Maximum	56	57	51	54	58	57	50	56	54	50	41	50	52	60	66	63	42	43	53	60	66	57	44	59	63	37	55	48	62	56	..	54.0
	Minimum	47	45	45	39	36	39	42	42	38	36	35	28	30	33	36	40	19	27	30	37	47	21	29	40	25	18	25	27	26	28	..	33.7
Unionville /	Maximum	60	47	53	55	56	51	52	50	50	42	46	50	55	63	63	44	41	50	59	64	56	41	54	61	32	57	44	58	45	55	..	51.8
	Minimum	44	43	42	37	33	34	40	41	35	35	34	25	26	26	30	43	18	18	27	31	39	19	19	33	24	14	16	23	23	24	..	29.9
Warrenton	Maximum	62	61	64	55	53	49	54	54	51	56	43	55	59	66	68	51	43	52	62	63	62	49	60	62	60	50	53	65	55	68	..	56.8
	Minimum	52	52	49	45	35	43	43	44	35	40	35	24	27	38	42	38	22	20	29	33	43	26	28	48	32	31	33	26	31	35	..	36.0
Keokuk, Iowa	Maximum	65	52	59	55	54	49	52	48	46	53	41	49	52	61	67	57	37	50	59	62	60	37	59	64	36	49	44	60	45	60	..	52.7
	Minimum	51	47	47	43	39	45	46	42	40	41	37	34	31	38	47	31	23	29	36	42	34	23	29	35	32	26	34	34	30	37	..	36.8
Southwestern Division																																	
Clinton	Maximum	65	55	52	57	50	54	50	54	55	55	50	58	62	68	60	55	45	56	64	71	56	54	62	64	35	46	51	65	67	57	..	56.4
	Minimum	55	48	47	43	42	46	40	40	42	33	32	27	32	35	45	30	23	25	30	39	32	27	35	35	30	23	32	29	36	35	..	35.6
Eldon	Maximum	63	60	53	53	52	50	54	52	50	56	47	57	61	66	63	54	43	55	64	66	62	54	61	64	63	50	52	67	65	69	..	57.5
	Minimum	54	53	48	47	37	44	44	41	40	39	30	28	33	39	44	39	22	23	31	39	42	28	33	51	31	26	34	31	33	41	..	37.5
Harrisonville /	Maximum	58	54	53	56	50	53	50	54	55	46	51	57	67	67	60	42	44	55	61	67	58	56	59	63	30	48	52	62	64	61	..	55.1
	Minimum	48	48	43	43	38	41	38	36	39	32	27	27	33	35	42	40	18	18	28	33	40	24	31	39	26	16	24	31	30	30	..	33.3
Jefferson City	Maximum	63	74	55	55	53	51	54	52	51	55	45	57	60	67	66	54	44	55	63	67	62	51	62	65	63	49	52	67	58	70	..	58.0
	Minimum	54	52	49	47	35	45	45	43	39	38	29	24	29	32	44	38	23	22	25	32	39	28	29	50	32	27	32	26	34	32	..	35.8
Joplin	Maximum	64	61	56	52	51	56	58	52	62	52	47	57	61	66	59	59	48	56	63	70	63	57	60	64	43	48	58	66	70	66	..	58.2
	Minimum	58	56	50	51	48	50	44	43	48	38	32	33	38	45	53	34	28	32	38	47	38	31	42	43	32	28	39	40	43	40	..	41.4
Lamar /	Maximum	66	58	52	55	50	55	56	53	58	42	52	60	64	68	53	47	49	59	65	72	63	58	62	63	33	50	56	65	71	63	..	57.3
	Minimum	53	55	47	47	47	44	40	36	37	36	28	26	28	35	37	46	25	26	28	34	42	26	27	37	30	23	25	31	34	34	..	35.5
Lebanon	Maximum	65	63	57	52	50	53	55	53	50	57	47	56	61	67	64	54	47	59	62	64	62	55	60	65	62	48	55	65	66	68	..	58.1
	Minimum	55	55	48	47	42	43	42	35	40	37	26	25	33	39	46	38	21	20	30	44	44	25	36	49	30	30	32	31	36	43	..	37.4
Lexington /	Maximum	65	55	58	59	55	56	53	52	51	45	53	58	63	68	62	43	45	56	62	69	62	55	61	67	37	54	52	68	57	62	..	56.8
	Minimum	49	48	46	43	37	44	40	43	42	38	32	33	38	36	46	39	21	27	30	39	48	26	32	43	28	21	37	32	35	36	..	37.0
Marshall	Maximum	61	55	56	56	54	54	51	49	48	55	46	55	61	67	60	54	40	47	62	67	60	49	59	63	61	48	55	65	57	62	..	55.9
	Minimum	50	47	43	46	36	44	41	43	40	37	32	30	34	39	47	38	20	23	32	37	38	27	36	51	28	22	32	32	30	40	..	36.5
Mountain Grove	Maximum	68	65	65	53	50	51	55	56	53	56	48	55	61	64	62	53	48	56	61	62	64	55	59	58	58	47	59	64	65	67	..	57.9
	Minimum	56	59	51	48	43	45	42	39	42	38	29	25	33	41	44	38	25	26	34	44	50	28	34	45	32	31	32	34	38	44	..	39.0
Neosho	Maximum	70	63	60	54	53	58	60	57	58	69	49	58	61	69	62	57	49	59	66	70	67	60	62	63	62	52	60	62	70	67	..	60.7
	Minimum	60	56	52	50	50	48	42	34	41	37	26	24	29	35	45	42	26	23	28	39	48	23	30	54	32	30	27	31	30	38	..	37.8
Nevada	Maximum	65	56	52	56	53	55	54	53	55	56	52	58	62	68	60	46	50	57	64	70	63	59	60	62	56	50	56	66	68	59	..	58.0
	Minimum	54	50	49	47	43	46	40	35	42	36	26	26	33	36	45	40	24	28	30	40	44	26	33	53	29	21	29	33	36	40	..	37.1
Sedalia	Maximum	62	58	54	55	53	52	53	49	50	55	46	56	60	66	60	55	44	54	60	68	61	52	60	66	64	46	50	64	60	62	..	56.5
	Minimum	52	50	46	45	40	45	43	41	48	37	30	29	32	39	47	39	21	26	35	43	40	26	36	42	31	21	32	33	35	41	..	37.5
Springfield, 4 mi. NW	Maximum	63	61	55	51	48	51	53	52	55	54	45	55	61	63	58	50	46	53	62	65	63	56	61	62	40	47	56	65	64	62	..	55.9
	Minimum	55	55	48	48	46	45	42	39	46	33	28	29	32	36	46	30	24	25	33	43	31	27	35	40	31	30	32	36	35	36	..	37.2
Warrensburg	Maximum	57	57	53	57	53	53	53	51	51	56	47	58	60	67	63	55	45	54	60	68	60	52	48	64	47	60	50	..	..	..	..	ᶜ55.5
	Minimum	51	49	45	43	38	44	41	40	41	35	31	31	36	41	47	37	22	27	34	43	42	27	21	47	27	37	32	..	..	..	..	ᶜ37.4
Southeastern Division																																	
Arcadia /	Maximum	68	70	66	52	56	61	63	62	56	56	48	56	62	70	67	58	50	57	63	61	60	55	60	60	42	47	60	66	67	68	..	59.6
	Minimum	55	59	62	49	38	38	39	44	38	38	33	24	24	27	33	44	25	20	20	29	45	28	27	34	39	34	25	23	27	32	..	35.1
Birch Tree, ½ mile E	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	58	62	66	66	63	61	61	58	49	61	67	64	63	..	....
	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	24	25	44	50	27	27	47	36	34	23	23	35	34	..	....
Caruthersville	Maximum	79	80	77	73	63	70	68	65	70	70	60	54	58	67	66	63	56	54	60	59	64	62	60	67	63	51	58	61	66	69	..	64.4
	Minimum	63	64	65	58	50	51	52	45	48	58	42	35	34	37	44	52	34	34	41	51	50	35	33	47	50	40	36	36	35	44	..	45.5
Crystal City	Maximum	62	72	67	57	55	55	63	57	48	55	46	57	60	70	67	61	47	54	65	65	62	61	64	63	61	46	58	69	63	74	..	60.1
	Minimum	52	60	55	55	39	48	45	41	39	46	34	25	28	32	41	42	28	22	25	34	46	29	25	51	37	35	28	27	34	30	..	37.9
Doniphan	Maximum	80	76	80	69	66	64	69	69	57	63	55	58	62	71	66	58	53	58	62	60	65	59	61	65	60	56	64	67	67	67	..	64.2
	Minimum	63	63	61	53	45	52	49	36	43	48	31	26	26	29	38	44	29	24	26	40	45	26	24	40	43	39	23	23	27	34	..	38.3
Farmington	Maximum	63	69	67	55	55	59	62	59	52	57	46	55	58	68	64	57	45	58	60	61	59	59	59	61	58	44	54	64	65	69	..	58.7
	Minimum	56	60	54	49	38	47	45	45	39	41	32	25	31	35	41	41	26	22	29	40	46	29	29	46	35	34	28	27	36	38	..	38.3
Jackson	Maximum	75	73	74	60	60	64	63	63	53	62	55	56	60	67	64	58	54	58	58	60	64	59	58	63	60	48	54	64	67	68	..	61.4
	Minimum	61	61	60	53	42	50	52	43	38	53	35	27	28	30	37	48	29	26	28	43	48	28	26	43	38	36	28	25	31	33	..	39.3
Poplar Bluff	Maximum	81	75	79	66	60	65	66	68	59	64	55	58	63	69	67	58	52	57	62	61	63	59	62	64	61	50	63	66	67	66	..	63.5
	Minimum	61	62	60	52	45	50	50	41	42	54	35	30	31	32	39	50	31	28	30	46	45	34	28	43	55	38	27	27	31	36	..	41.1
Rolla /	Maximum	63	65	53	52	50	55	54	55	56	43	44	55	60	67	63	53	44	56	64	65	62	53	59	59	34	49	54	65	65	69	..	56.2
	Minimum	51	57	48	47	39	43	43	41	40	41	31	28	32	39	41	42	23	23	31	44	47	27	34	47	32	32	32	29	36	41	..	38.0
St. Louis	Maximum	63	69	67	54	55	57	58	51	52	56	41	55	57	68	65	58	43	52	61	60	62	45	60	62	54	46	50	64	56	70	..	57.0
	Minimum	58	62	53	47	43	48	50	47	43	40	38	35	37	44	47	35	28	31	37	39	36	33	36	50	34	34	37	35	36	41	..	41.1
Salem	Maximum	62	65	65	53	52	57	58	58	50	57	45	55	60	68	65	56	45	57	60	64	62	53	60	59	58	47	55	66	66	70	..	58.3
	Minimum	57	58	51	48	40	45	43	41	40	40	30	24	28	31	41	39	24	19	29	43	45	28	31	47	33	33	28	28	31	38	..	37.1
Sikeston /	Maximum	80	74	78	58	64	68	67	65	67	61	54	55	59	68	64	54	49	56	58	59	64	56	60	65	58	49	58	65	66	67	..	62.3
	Minimum	63	63	63	55	44	44	50	43	42	44	35	30	30	33	35	48	31	29	30	36	47	30	30	35	50	38	30	30	34	34	..	40.2
Union, 1½ mi. SE	Maximum	63	62	60	56	53	51	57	51	51	57	44	54	58	66	68	58	43	53	64	65	66	49	62	63	61	47	52	64	56	69	..	57.4
	Minimum	54	60	50	49	36	46	45	43	38	43	35	25	27	31	35	40	26	20	24	30	41	29	25	50	34	33	28	25	32	28	..	36.1
West Plains	Maximum	71	66	66	54	51	56	61	63	58	60	52	57	64	66	62	61	50	58	60	64	68	58	60	60	57	50	63	67	67	64	..	60.5
	Minimum	58	60	54	50	46	48	37	41	41	41	29	25	29	32	26	36	27	22	26	36	37	28	26	48	36	27	26	25	30	35	..	36.4
Cairo, Ill.	Maximum	78	73	76	60	64	70	66	62	69	64	52	53	56	64	65	56	47	54	54	60	64	54	58	65	62	46	55	60	64	66	..	61.2
	Minimum	64	64	60	55	46	52	48	47	44	45	39	35	37	40	45	42	33	32	38	50	43	36	35	48	42	26	33	35	37	41	..	43.4

/ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs. ᵃ, ᵇ, ᶜ, etc., number of days missing, for example, ᵇ indicates two days missing. *Italics data interpolated.* § Partly interpolated.


MISSOURI
SCALE OF MILES
0 10 20 30 40 50
LEGEND
● Section Center.
● Weather Bureau Office.
○ Substation (Temperature and Precipitation).
□ Substation (Precipitation).
△ Substation (Evaporation, Temperature, and Precipitation.)
NOTE.—Dash (—) above station symbol indicates availability of hourly temperature data; below symbol, hourly precipitation records.
MISSISSIPPI RIVER
MISSOURI RIVER
C.E.J. 5-1-44

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U. S. DEPARTMENT OF COMMERCE, WEATHER BUREAU

CLIMATOLOGICAL DATA

19

MISSOURI SECTION

H. F. WAHLGREN
ST. LOUIS, MO.

Vol. L — December 1946 — No. 12

Price: 5 Cents a Copy; 25 Cents a Year

GENERAL SUMMARY

This was the warmest December since 1931 and the fourth-warmest month of its name in the 59 years that State-wide records have been compiled. The mild, open weather, which prevailed until the 28th, was highly favorable for seasonal activities and for livestock.

The unusually mild temperatures during the greater part of the month were general over all sections of the State, and the average monthly temperature for each reporting station was well above the normal. The average temperature and departure from normal for the three divisions of the State were as follows: Southeastern 42.2°, +5.9°; Southwestern 41.9°, +6.8°; Northern 36.4°, +5.9°. For the State, as a whole, the average temperature for the month was 40.2°, +6.0°, or 12.4° above the State average temperature for December one year ago. Warm periods this month prevailed from the 3d to 12th, 15th to 16th, and 19th to 27th, with cold periods on the 1st and 2d, 13th and 14th, and the last three days of the month. The 6th, 7th and 27th were the warmest days, as a rule, with afternoon readings in the 60's and 70's, and the 30th and 31st, generally, the coldest days, with minimum readings near zero, or somewhat below, over the northern half of the State and near zero to 17° above over the southern half. These low temperatures were the result of a rather severe cold wave which entered the State on the night of the 28-29th and dominated the weather for the remainder of the month. Temperature extremes for this month were well within the range of the all-time extremes, for past Decembers.

The greater part of the month's precipitation occurred as rain. Snowfall averaged only 0.5 inch, and was the least December average for the State, since 1938. Only six other Decembers, in the past 59 years, had less snowfall than the current month. The average of only 0.5 inch for this month was in marked contrast to the State average of 7.9 inches for December one year ago, which, incidentally, was the greatest average December snowfall in the climatic history of the State. The ground was bare throughout December 1946, as a rule, except for the last three days, when amounts ranging from only a trace to as much as nearly three inches, covered the ground over most of the northern half of the State. Freezing rain and drizzle preceded the snow during the night of the 28-29th in central and northern portions of the State, covering everything with a sheet of ice, and thus seriously interfering with motor traffic and the movement of pedestrians. The month's precipitation was adequate for current needs, except in the extreme northwestern counties, where it was decidedly deficient, and the ground became very dry; there were reports of some wind erosion of the top soil in the latter area. The Southeastern Division received the greatest precipitation during December, the average being 2.95 inches, or 0.06 inch more than normal. The Northern Division had the least monthly average, 1.70 inches, or 0.12 inch more than normal. The average for the Southwestern Division was 2.66 inches, +0.60 inch. The distribution of the monthly precipitation over the State was irregular, ranging from a monthly total of only 0.02 inch at Tarkio to 5.66 inches at Hailey.

(Continued on page 91)

PRESSURE, WIND, HUMIDITY, AND SUNSHINE

Stations	Sea-level pressure, extremes–inches: Highest	Date	Lowest	Date	Wind: Average hourly velocity	Maximum velocity ¶	Direction of maximum	Date	Relative humidity: 12:30 a. m.	6:30 a. m.	12:30 p. m.	6:30 p. m.	Percentage of sunshine	Degree days
Columbia	30.79*	31	29.26*	12	7.5	26	s.	27	68*	74*	59*	61*	34	807
K. C. Airport	30.80	31	29.32	12	11.1	42	sw.	27	72	75	58	62	41	817
St. Joseph	30.72*	1	29.29*	27	8.2	32	w.	27	78*	80*	59*	68*	37	881
St. Louis	30.73*	31	29.31*	12	12.5	35	sw	27	76*	75	61	70*	38	745
Springfield	30.70	31	29.34	12	12.4	38	sw.	27	81	86	70	73	..	742
Cairo, Ill.	30.68	2	29.43	12	10.0	31	sw.	12	..	79	65	..	46	636
....	.....	..	.....	..	....	..	......	..	..	..	..	..	..	....

* Data for Airport station. ¶ For 5-minute period.

COMPARATIVE DATA FOR DECEMBER

Year	Temperature: Average for State	Highest	Lowest	Precipitation: Average for State	Average, Northern Division	Average, Southwestern Division	Average, Southeastern Division	Snowfall, Average for State	Number of days: Precip. .01 inch or more	Clear	Partly cloudy	Cloudy
1888	35.9	70	0	2.43	1.88	3.03	2.39	....	6	..	..	..
1889	46.8	80	2	1.09	0.60	0.85	1.82	0.1	3	..	..	..
1890	36.0	76	−3	1.18	0.82	1.14	1.57	4.6	3	..	..	..
1891	39.8	72	−1	1.88	1.91	1.67	2.05	....	6	..	..	..
1892	29.4	75	−22	2.50	1.69	2.76	3.04	4.8	6	8	7	16
1893	35.2	76	−7	0.97	0.80	0.67	1.44	2.7	5	11	11	9
1894	36.7	75	−7	2.41	1.19	2.33	3.70	1.3	5	14	8	9
1895	34.3	69	−8	6.40	5.12	8.57	5.50	3.4	8	9	8	14
1896	38.6	79	−5	0.92	0.84	1.17	0.75	T.	3	13	8	10
1897	29.3	74	−14	3.03	1.92	2.98	4.19	6.3	7	8	8	15
1898	28.7	74	−20	1.65	1.62	1.84	1.48	5.1	5	17	6	8
1899	30.4	75	−13	2.22	1.90	2.02	2.74	6.6	9	12	9	10
1900	35.6	68	−3	0.79	0.47	0.55	1.35	0.6	4	14	8	9
1901	28.5	71	−29	3.20	2.26	2.98	4.35	6.9	8	11	7	13
1902	30.7	68	−7	3.32	2.02	2.76	5.18	3.1	8	10	4	17
1903	30.2	65	−11	1.70	1.05	1.56	2.49	2.3	5	16	7	8
1904	32.9	75	−10	1.55	1.56	1.24	1.84	6.0	5	16	7	8
1905	33.3	66	−2	1.71	0.79	1.44	2.89	1.7	4	18	6	7
1906	36.1	73	0	2.52	1.67	1.85	4.05	0.6	8	8	6	17
1907	37.7	76	3	1.75	1.22	1.69	2.34	3.7	7	11	7	13
1908	38.4	80	−4	0.78	0.54	0.94	0.86	T.	3	16	7	8
1909	24.9	76	−17	2.87	2.82	2.80	3.00	7.7	8	12	6	13
1910	31.2	67	−5	1.49	0.94	1.14	2.40	2.4	4	16	5	10
1911	36.7	74	−11	2.85	2.74	2.56	3.26	5.1	7	13	6	12
1912	36.5	72	2	0.62	0.54	0.49	0.82	0.6	3	19	5	7
1913	38.3	74	−3	2.26	2.11	2.84	1.83	6.6	7	9	4	18
1914	26.8	68	−18	2.51	1.69	2.20	3.65	6.6	9	7	5	19
1915	34.7	68	−13	2.99	1.48	2.45	5.03	7.8	6	12	6	13
1916	31.3	82	−29	1.92	0.78	1.54	3.44	4.4	6	15	6	10
1917	25.5	82	−23	0.76	0.41	0.75	1.13	7.3	5	11	7	13
1918	40.0	83	−12	3.23	2.27	2.81	4.62	7.8	7	13	6	12
1919	28.5	74	−22	0.72	0.41	0.66	1.08	0.7	3	12	4	15
1920	35.6	77	−10	2.12	1.25	1.49	3.61	2.3	5	13	7	11
1921	36.9	74	−8	1.97	1.26	2.00	2.65	1.9	6	13	7	11
1922	36.3	75	−6	2.27	0.75	1.71	4.35	0.2	6	15	6	10
1923	41.0	82	−4	3.07	1.63	2.96	4.62	0.8	8	11	6	14
1924	27.7	80	−28	3.48	2.94	3.45	4.06	4.6	7	13	6	12
1925	31.6	69	−10	1.43	1.53	1.27	1.50	4.8	4	13	7	11
1926	32.6	75	−12	2.16	1.17	2.12	3.20	2.4	6	11	5	15
1927	29.9	74	−11	2.81	1.64	2.55	4.23	2.9	6	15	5	11
1928	36.2	81	0	2.29	1.37	2.49	3.00	1.4	5	14	6	11
1929	35.2	76	−9	1.74	0.67	1.11	3.43	3.7	6	13	5	13
1930	34.2	70	2	1.24	0.79	1.35	1.57	1.9	5	15	6	10
1931	42.7	80	11	2.71	2.53	1.51	4.10	1.7	8	11	6	14
1932	31.2	77	−21	4.74	3.18	4.98	6.07	5.7	7	12	6	13
1933	39.1	78	−7	1.92	1.52	1.67	2.56	0.4	5	12	7	12
1934	31.6	69	−3	1.80	0.94	1.72	2.74	5.0	7	10	6	15
1935	30.7	66	−11	1.20	0.85	1.03	1.73	2.8	6	11	7	13
1936	38.4	69	−7	2.83	2.19	2.71	3.60	2.2	7	12	7	12
1937	32.0	66	−2	2.24	1.50	1.90	3.32	0.6	9	8	6	17
1938	35.9	72	2	1.83	1.66	1.52	2.32	0.2	6	15	7	9
1939	38.8	80	−5	1.45	1.11	1.46	1.79	6.3	6	15	7	9
1940	38.6	78	−2	2.59	1.77	2.33	3.66	1.7	8	10	5	16
1941	39.6	72	3	2.21	1.92	1.94	2.76	2.1	6	11	7	13
1942	32.7	76	−4	4.01	3.38	4.32	4.34	7.4	10	8	7	16
1943	31.3	72	−20	2.10	1.88	2.38	2.04	6.8	6	12	6	13
1944	29.1	70	−14	2.26	2.05	1.88	2.86	5.1	8	8	7	16
1945	27.8	70	−20	1.39	1.87	0.96	1.34	7.9	8	10	7	14
1946	40.2	77	−8	2.44	1.70	2.66	2.95	0.5	5	11	7	13
....	....	..	....	....	....	....	....	....	..	..	..	..
....	....	..	....	....	....	....	....	....	..	..	..	..
Period	34.2	83	−29	2.18	1.58	2.06	2.89	3.5	6	12	7	12

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Climatological Data for December 1946

Stations	Counties	Elevation, feet	Temperature, in degrees Fahr.							Precipitation, in inches						Number of days				Prevailing direction of wind	Observers
			Length of record, years	Mean	Departure from the normal	Highest	Date	Lowest	Date	Length of record, years	Total	Departure from the normal	Greatest in 24 hours 4	Date	Total snowfall, unmelted	With precip., .01 inch or more	Clear	Partly cloudy	Cloudy		
Northern Division																					
Albany	Gentry	930	5	33.4[e]	......	71[e]	9†	−5[e]	30†	17	1.00	+0.13	0.75	12	2.5§	6	7[g]	9[g]	8[g]	nw.	Curtis E. Grace
Amity	DeKalb	1,007	0	35.7	......	70	27	−5	30	11	1.25	−0.79	0.93	11-12	1.0	4	8	9	14	sw.	O. M. Colhour
Bethany	Harrison	916	51	34.9	+4.8	72	27	−4	31	53	1.28	+0.13	0.75	12	1.7	3	16	4	11	se.	B. A. McGregor
Brookfield	Linn	767	5	35.5	......	71	27	2	30†	5	2.96	......	2.10	11-12	2.0	4	16	10	5	s.	G. F. Breen
Brunswick	Chariton	652	65	36.4	+5.8	71	27	1	30	67	2.43	+0.76	1.32	8-9	1.3	4	17	4	10	nw.	O. K. Benecke
Canton, Lock & Dam 20	Lewis	488	8	37.3	......	71	27	3	31	16	2.29	+0.66	1.03	12	*1.0*	6	7[d]	12[d]	8[d]	n.	Lockmaster
Carrollton	Carroll	754	0	37.4	......	71	27	0	30	0	2.77	......	1.63	8-9	0.9	5	8	10	13	se.	Harold E. Finley
Chillicothe 2 mi ESE(C)	Livingston	771	37	34.8	+4.9	71	27	−1	31	40	2.46	+1.04	1.97	11-12	1.2	7	6	7	18	sw.	Civil Areo. Authority
Columbia	Booue	740	56	39.0	+5.0	71	27	4	30	56	1.42	−0.44	0.77	9	0.4	7	7	6	18	s.	U. S. Weather Bureau
Conception	Nodaway	1,108	57	35.1	+5.9	71	8	−8	30	62	0.91	+0.03	0.83	12	2.5	2	10	16	5	nw.	Fr. Adelhelm Hess
Edgerton	Platte	856	26	....	......	..	..	..	..	43	....	......	....	..	....	..	..	..	..	.....	W. A. Foster
Elsberry	Lincoln	449	15	36.6	+2.2	72	7	9	30	15	1.69	−0.52	0.84	12	*T.*	5	12	6	13	s.	Soil Conservation Service
Fayette	Howard	760	66	38.2	+7.1	72	27	1	30	63	1.50	−0.16	0.84	11-12	1.5	7	11	7	13	s.	Irvin E. Schnell
Fulton	Callaway	818	58	38.0	+4.5	70	27	5	30	54	1.32	−0.69	0.91	9	*1.0*	5	16	5	10	s.	Frank E. Hillgartner
Grant City	Worth	1,134	42	33.8	+5.8	70	8	−6	31	54	0.36	−0.70	0.33	12	1.8	2	14	3	14	n.	J. Homer Korn
Hannibal	Marion	759	54	36.4	+4.9	70	27	1	31	62	1.44	−0.10	0.77	12	0.7	5	10	7	14	se.	Hannibal Water Dept.
Kansas City Airport	Jackson	741	57	38.6	+6.1	73	27	0	30	57	1.43	+0.23	0.71	8-9†	0.3	5	7	7	17	sw.	U. S. Weather Bureau
Kansas City Univ	Jackson	908	8	39.6	......	73	27	−1	30	8	2.47	......	1.38	8-9	0.4	5	13	9	9	sw.	University of Kansas City
Kidder	Caldwell	1,020	54	36.2	+7.0	70	27	−3	30	58	2.27	+1.00	2.04	11-12	0.2	6	14	2	15	s.	Mrs. Geraldine Terry
Kirksville	Adair	969	57	36.0	+6.4	69	27	−1	31	64	3.06	+1.30	2.30	11-12	1.8	4	17	12	2	uw.	B. I. Mabry
Lawson	Ray	1,070	8	....	......	..	..	..	..	8	....	......	....	..	....	..	..	..	..	.....	Elmer E. Lamb
Louisiana	Pike	469	52	38.8	+7.0	71	27	6	30	65	1.20	−0.70	0.57	11-12	1.0	5	11	6	14	s.	Stark Bro's Nurseries
Macon	Macon	875	47	34.7	+4.6	70	27	3	30	53	2.07	+0.43	1.32	11-12	1.5	4	11	7	13	uw.	John W. Atwell
Maryville	Nodaway	1,169	56	34.0	+7.2	71	8	−6	30	52	0.31	−0.77	0.18	12	1.5	4	12	5	14	nw.	R. B. Montomery
Memphis	Scotland	787	7	32.9	......	69	27	−2	31	16	2.24§	+0.96	1.75	11-12	2.0	6	7	13	11	sw.	John W. Alexander
Mexico	Audrain	800	57	36.5[a]	+4.7	69[a]	27	4[a]	30	68	0.92§	−0.99	0.45	9	1.4	5	9[a]	8[a]	13[a]	sw.	Darrence W. Stuart
Moberly .....3½ mi. NE	Randolph	860	9	....	......	..	..	..	..	9	....	......	....	..	....	..	..	..	..	.....	....
New Florence. 1 mi SE	Montgomery	885	3	37.4	......	69	27	6	31	4	1.29	......	0.65	9	T.	4	6	6	19	nw.	U. S. Weather Bureau
Oregon	Holt	1,048	90	36.2	+7.5	70	8	−6	30	90	1.03	−0.01	0.98	12	2.7	3	20	2	9	s.	James M. Curry
Polo	Caldwell	1,000	0	35.2	......	70	27	−3	30	0	2.25	......	1.75	12	0.7	4	14	5	12	s.	F. B. Albright
St. Charles	St. Charles	520	58	....	......	..	..	..	..	68	....	......	....	..	....	..	..	..	..	.....	....
St. Joseph	Buchanan	957	36	36.6	+7.0	70	27	−2	30	74	1.46	+0.17	1.28	12	1.5	6	8	7	16	s.	U. S. Weather Bureau
Salisbury	Chariton	723	0	38.4	......	71	27	3	30	0	1.98	......	1.04	11-12	2.0	6	13	6	12	s.	David H. Robertson
Saverton, Lock No. 22.	Ralls	472	8	38.9	......	72	27	6	30	8	1.30	......	0.40	11-12	0.5	7	18	5	8	nw.	Lockmaster
Shelbina	Shelby	779	5	36.6	......	71	27	4	31	53	1.63	+0.09	1.16	11-12	1.5	4	16	1	14	nw.	Guyman Hatcher
Steffenville	Lewis	650	48	36.7	+6.1	70	27	2	31	53	2.12	−0.43	1.72	11-12	1.1§	5	9	9	13	se.	Mrs. Fannie V. Gross
Tarkio	Atchison	916	43	32.2	+5.8	68	27	−7	29	52	0.02	−0.94	0.02	28	T.	1	6	15	10	uw.	C. A. A. Station
Trenton	Grundy	822	50	36.3	+6.7	71	27	−1	30†	51	1.64	+0.23	0.90	11-12	0.7	5	13	9	8	s.	W. H. Estes
Unionville	Putnam	1,062	53	32.3	+4.7	67	8	−5	31	53	1.33	−0.38	0.56	12	1.2	5	14	10	7	nw.	Mrs. Dora A. Wilson
Vandalia	Audrain	766	2	38.2	......	70	27	6	29†	7	1.15§	......	0.49	9	*1.0*	3	11	18	2	n.	Mrs. Naomi K. Stoutz
Warrenton	Warren	816	64	40.0	+7.6	70	7	7	30	56	1.74	−0.34	0.76	11-12	T.	4	15	11	5	w.	W. T. Zimmerman
Keokuk, Iowa	Lee, Ia.	574	74	36.8	+7.2	68	27	−3	31	74	2.88	+1.43	2.40	11-12	1.0	8	13	11	7	nw.	U. S. Weather Bureau
Division means	**and extremes**	.....	..	**36.4**	**+5.9**	**73**	**27**	**−8**	**30**	..	**1.70**	**+0.12**	**2.50**	**11-12**	**1.1**	**5**	**12**	**8**	**11**	**s.**	
Southwestern Division																					
Anderson ...1½ mi sw	McDonald	1,000	42	42.2	+4.7	77	6	4	30	47	3.71	+1.36	1.72	9-10	*T.*	5	18	1	12	sw.	Samuel G. Chamberlain
Appleton City. 2 mi. w	Bates	813	51	41.0	+6.4	71	27	1	30	54	1.28	−0.31	0.74	9	T.	5	12	7	12	sw.	F. Paul Eye
Bolivar	Polk	1,071	43	43.2	+7.6	71	6	4	30	51	1.84	−0.50	1.03	9	T.	7	10	7	14	sw.	Southwest Baptist College
Boonville	Cooper	650	8	39.0	......	72	27	−2	30	69	1.11	−0.59	0.43	9	T.	5	9	9	13	sw.	Boonville Water Dept.
Butler	Bates	865	0	40.8	......	73	27	0	30	5	1.01	......	0.54	11-12	0.1	6	5	14	12	nw.	Harley W. Johnson
Camdenton	Pulaski	940	0	44.5[a]	......	72[a]	6	8[a]	30	0	1.79	......	0.50	30	*0.5*	4	8	12	10	sw.	Mo. Conservation Com.
Carthage	Jasper	962	12	43.4	......	76	6	6	30	22	1.99	......	1.15	8-9	0	5	13	10	8	nw.	Carthage W. and E. Plant
Clinton	Henry	786	53	39.2	+4.5	73	27	1	30	59	1.44	−0.43	0.90	9	T.	4	10	10	11	s.	U. S. Weather Bureau
Eldon	Miller	934	51	42.6[a]	+8.3	76[a]	7†	8[a]	30	47	1.95	+0.19	1.35	9	T.	3	9	9	12	s.	Arthur Rothwell
Harrisonville	Cass	904	68	38.0	+6.7	72	27	−6	30	71	2.22	+0.77	1.20	8-9	1.4	4	15	3	13	se.	Jeffrey B. Patterson
Jefferson City	Cole	557	56	40.6	+7.7	71	7	4	30	64	1.78	−0.16	1.24	9	T.	6	14	5	12	w.	K W. O. S. Radio Farm
Joplin	Jasper	1,008	24	44.6	+5.4	75	6	8	30	41	2.17	+0.28	1.09	9	T.	5	5	13	13	s.	Empire Dist. Electric Co.
Lakeside	Miller	595	15	40.9	+3.6	72	6†	6	30	15	1.89	−0.41	1.13	9	T.	6	12	5	14	sw.	W. S. Frame
Lamar	Barton	980	58	41.5	+6.3	75	6	4	30	65	1.31	−0.57	0.70	9	0	5	15	5	11	sw.	Mrs. Marie Mann
Lebanon	Laclede	1,265	58	43.1	+8.3	72	6	6	30	59	1.71	−0.57	0.85	9	*T.*	5	7	11	13	sw.	Mrs. Rosa E. Montelius
Lexington	Lafayette	688	61	38.0	+6.0	70	9	4	30	62	2.39§	+0.80	1.40	8	*1.0*	3	16	6	9	s.	Tilton Davis
Lockwood	Dade	1,078	40	44.2	+8.1	70	27	4	30	50	1.41	−0.73	1.09	8-9	T.	4	11	8	12	sw.	Hubert A. Nieman
Marshall	Saline	779	59	39.4	+7.5	71	27	0	30	56	1.19	−0.56	0.61	11-12	0.5	3	14	7	10	n	Thomas A. Reid
Mountain Grove	Wright	1,463	45	43.0	+8.3	69	6	8	30	49	3.70	+1.29	1.42	11-12	0.4	8	13	6	12	se.	Mo. Fruit Exp. Station
Mount Vernon	Lawrence	1,174	34	45.2	+9.7	77	6	5	30	46	2.98	+0.44	1.08	9-10	0	5	12	10	9	sw.	James C. Williamsou
Neosho	Newton	1,011	59	45.4	+8.3	74	6	6	30	63	3.17	+0.89	1.57	8-9	*T.*	7	13	5	13	sw.	U S Fisheries Station
Nevada	Vernon	862	53	43.4	+8.1	74	6	3	30	54	1.70	−0.05	1.38	9	*T.*	4	15	3	13	sw.	Henry Kraft
Ozark Beach	Taney	700	6	43.6	......	77	6	9	30†	21	4.38§	+1.63	1.47	28	*0.5*	7	8	15	8	w.	Empire District Elec. Co.
Sedalia	Pettis	910	33	41.0	+7.1	71	27	0	30	35	1.77	+0.49	0.73	9	*2.0*	6	11	6	14	sw	Dr. J. E. Cannaday
Seligman	Barry	1,542	45	45.2	+7.9	75	6	5	30	43	4.57§	+2.37	2.19	9-10	*T.*	5	14	6	11	s.	Floyd E Fawver
Seymour 3½ miles NE	Webster	1,642	40	39.2	+3.8	69	6	4	30	40	3.35	+1.09	1.42	9-10	T.	6	16	4	11	sw.	Ira H Hailey
Springfield... 4 mi. NW	Greene	1,301	58	41.0	+5.5	72	6	4	30	58	3.02	+0.71	1.73	9-10	T.	6	3	10	18	s.	U. S. Weather Bureau
Sweet Springs	Saline	700	5	39.3	......	72	27	−4	30	5	1.62	......	0.70	8	2.0	7	8	12	11	n.	H F. Nelson
Warrensburg	Johnson	878	59	40.4[c]	+7.0	72[c]	27	−2[c]	30	66	1.42	−0.12	0.79	8-9	0.6	3	14	5	12	sw.	Central Teachers College
Warsaw	Benton	687	45	42.2	+6.5	73	27	3	30	51	2.26	+0.14	1.55	9	*T.*	4	13	2	16	w.	Dora R. Johnson
Wasola	Ozark	1,294	5	45.4	......	73	6	6	30	6	4.07	......	1.89	11	*T.*	5	17	7	7	s	A. W. Pinckney
Waynesville	Pulaski	805	0	41.3	......	73[a]	6	8	30	0	1.98	......	1.13	9	*T.*	5	18	5	8	nw.	Jesse H. Barlow
Division means	**and extremes**	....	..	**41.9**	**+6.8**	**77**	**6**	**−6**	**30**	..	**2.66**	**+0.60**	**2.85**	**9-10**	**0.3**	**5**	**12**	**7**	**12**	**sw.**	
Southeastern Division																					
Advance.... ¼ mile w	Stoddard	354	9	42.0	+5.5	69	7	17	30	9	3.63	+0.73	1.15	28	0.5	8	6	7	18	s.	U. S. Weather Bureau
Arcadia	Iron	926	65	39.2	+4.9	70	6	12	30	68	2.45	−0.40	0.85	11-12	T.	4	7	3	21	w.	Arcadia College
Birch Tree... ½ mile E	Shannon	1,000	51	43.0	+6.6	72	8	10	30	52	3.32	+0.57	1.15	10-11	T.	5	15	8	8	sw.	Mrs. Mildred E. Catlett
Black.......9 miles NW	Iron	1,000	53	39.8	+5.0	70	6	10	2†	53	3.12	+0.67	1.02	11-12	T.	8	13	6	12	sw.	M. L. Volner
Campbell	Dunklin	314	20	44.8	+6.4	68	8	17	30	20	4.20§	+0.25	1.65	28-29	2.0	6	13	10	8	s.	Mrs. Ruth Christian
Cape Girardeau	Cape Girardeau	347	1	43.7	......	65	8†	16	30	46	3.04	−0.63	0.86	28-29	T.	8	10	9	12	sw.	Dr. Robert Martin
Caruthersville	Pemiscot	265	50	47.8	+6.9	70	8	19	30	54	3.58	−0.96	1.57	11-12	*T.*	5	11	6	14	s	Victor T. Malleure
Clearwater Dam	Wayne	648	0	43.1	......	70	6†	13	18	0	2.77	......	1.28	9-10	*T.*	5	6	13	12	s.	U. S. Engineer Office
Crystal City	Jefferson	420	12	42.6	+8.2	73	6	14	30	12	1.35	−1.19	0.63	10	T.	5	10	3	18	nw	Richard K. Bagland
Doniphan	Ripley	344	42	43.2	+5.4	70	6	13	18	42	3.97	+0.25	1.20	10	1.2	9	17	4	10	nw.	Boyce Lackey
Farmington	St. Francois	896	35	42.1	+5.4	68	6†	10	29	49	2.32	−0.48	0.97	28-29	0.3	5	12	4	15	s.	F. M. Karsch
Greenville	Wayne	460	37	42.8	+6.6	69	7	12	18	39	2.94	−0.42	1.45	9-10	0.2	6	10	5	16	se.	Beuford Shoemake
Jackson	Cape Girardeau	428	55	43.0	+6.4	68	7	16	30	56	2.87	−0.56	0.92	28	0.1	8	5	14	12	s.	Danny Siebert
Koshkonong	Oregon	958	45	42.0	+3.6	72	6	3	30	46	3.95	+0.47	1.82	9-10	0	6	10	5	16	s.	Mrs Genevieve T. Smith
Licking...... 4 miles N	Texas	1,170	9	42.1	+5.7	71	6	8	30	9	2.77	+0.39	1.18	28	0	3	11	7	13	s.	Fern E. Austin

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Climatological Data for December 1946—Continued from preceding page

Stations	Counties	Elevation, feet	Temperature, in degrees, Fahr.							Precipitation, in inches						Number of days				Prevailing direction of wind	Observers
			Length of record, years	Mean	Departure from the normal	Highest	Date	Lowest	Date	Length of record, years	Total	Departure from the normal	Greatest in 24 hours [4]	Date	Total snowfall, unmelted	With precip., .01 inch or more	Clear	Partly cloudy	Cloudy		
Southeastern Division—	*Concluded*																				
Marble Hill	Bollinger	532	51	42.6	+ 5.9	67	7	15	30	53	1.71	−1.96	0.32	11	*T.*	7	10	8	13	n.	R. A. DeWitt
Poplar Bluff	Butler	339	41	44.5	+ 6.7	69	6†	16	30	42	2.94	−1.05	1.03	28-29	T.	6	12	6	13	s.	Osmon M. Richardson
Rolla	Phelps	1,202	46	40.2	+ 5.6	70	6	7	30	62	2.14	−0.04	0.84	11-12	T.	4	10	8	13	sw.	Rolla School of Mines
St. Louis:																					
City Office		465	109	41.0	+ 6.1	69	7	12	30	109	2.95	+0.74	1.41	11-12	T.	6	10	5	16	sw.	**Section Center**
St. Louis Airport	St. Louis	556	9	39.8	+ 6.4	70	7†	11	31	15	2.35	+0.62	1.00	28-29	T.	7	7	2	22	nw.	U. S. Weather Bureau
St. Louis University	St. Louis City	578	34	40.6	+ 5.5	69	7†	12	30	34	2.60	+0.16	0.87	28	0.1	7	13	3	15	se.	St. Louis University
Salem	Dent	1,206	42	41.8	+ 6.4	70	6	9	30	45	2.89	+0.35	0.97	11-12	*T.*	6	10	6	15	s.	E. E. Martin
Sikeston	Scott	318	39	42.8	+ 5.1	69	7	18	30	49	3.17	−0.77	1.39	28	*T.*	6	6	12	13	s.	Mrs. Lucy W. Humphreys
Union 1½ mi. SE	Franklin	520	8	41.0	+ 5.5	71	6	10	30	29	2.26	+0.05	1.10	28-29	*0.2*	6	16	1	14	nw.	Cornelius Sieges
Vichy 2 mi. NW	Maries	1,125	10	39.6	......	69	6	6	30	11	2.72	......	1.47	11-12	T.	6	3	9	19	sw.	Civil Aero. Authority
Wappapello Dam	Butler	475	7	....	......	69	7	15[w]	30	7	2.77	......	0.97	9-10	*T.*	6	12	4	15	nw.	U. S. Engineer Office
Webster Groves	St. Louis	507	0	40.4	......	71	7	10	30	1	2.28	......	0.84	28-29	T.	5	12	10	9	nw.	R. W. Lawrie
Weingarten	St. Genevieve	833	5	41.6	......	70	6	11	30	6	2.26	......	0.80	28	*T.*	5	7	12	12	n.	William J. Miller
West Plains	Howell	1,005	9	41.8	+ 5.3	72	6	10	30	9	4.92	+1.70	1.99	11-12	1.0	6	3	9	19	s.	U. S. Weather Bureau
Willow Springs 500 ft E	Howell	1,238	5	42.4	......	74	6	9	30	39	3.60	+0.80	1.29	11-12	*T.*	4	13	6	12	s.	Allen Frazee
Cairo, Ill.	Alexander, Ill.	314	74	44.6	+ 6.8	68	7	19	29	75	3.54	+0.14	1.41	11-12	1.6	8	8	6	17	s.	U. S. Weather Bureau
Division means	**and extremes**	.....	..	**42.2**	**+ 5.9**	**74**	**6**	**3**	**30**	..	**2.95**	**+0.06**	**2.33**	**9**	**0.2**	**6**	**10**	**7**	**14**	**s.**	
State means	**and extremes**	.....	..	**40.2**	**+ 6.0**	**77**	**6**	**− 8**	**30**	..	**2.44**	**+0.26**	**2.85**	**9-10**	**0.5**	**5**	**11**	**7**	**13**	**s.**	

The departures from normal temperature are computed from the averages of the entire period for stations having 10 or more years of record. Departures of precipitation for stations with 15 years or more of record are computed from a normal or "standard mean", adjusted to a uniform 35-year period; for stations of 10 to 14 years the means for the period of record are used. The normal may be found by adding the departures when minus (−) or subtracting when plus (+). Figures and letters following stations indicate distance in miles and direction of station from the city Post Office, unless otherwise indicated. T. Trace or 0.005 inch or less. [a], [b], [c], etc., number of days missing; for example, [b], indicates two days missing. Italics data interpolated. § Partly interpolated. † And other dates. ‡ Received too late to be included in means and summaries. [4] Best available used for stations not equipped with recorders. Post office address of: Altona is Adrian; Clearwater Dam is Piedmont; Crane Mountain is Arcadia; East End is Goodland; Eastwood Lookout is Van Buren; Hailey is Cassville; High Lookout is Birch Tree; Macedonia Lookout is Doniphan; Oates Tower is Centerville; Perry is Center; Pineview Lookout is Cape Fair; Sugar Camp Lookout is Seligman; Topaz is Cabool; Wilderness Lookout is Lampe. (C) Airport. ¶ Indicates plus.

Continued from page 89

There were no floods in any of the major streams of the State, except on the Mississippi at Louisiana, where flood stage, or slightly higher, occurred on several days during the month. As a rule, river stages were relatively low during December.

No damaging storms of any kind were reported during the month. However, the glaze formation on the 28-29th, led to a number of traffic accidents.

The mild, open weather and lack of snow cover permitted the grazing of livestock during the greater part of the month and reduced dry feeding to a minimum; this resulted in a large saving of feed and forage. Good progress was made in the gathering of the corn crop and much of this work was completed by the end of December. Wheat continued to make some growth and was still green, as a rule, until the last three days, when the cold wave stopped all growth and also curtailed outdoor work to essential chores and activities. Reserve stocks of grain and forage feed on farms and in storage at the close of December were the largest in several years. On the other hand, fuel supplies on hand and in storage during the month, in the larger cities and towns, were the lowest in many years, as a result of previous strikes in the soft coal industry. The unusually mild weather during most of December undoubtedly averted much suffering and the curtailment, or even a shut down, in industrial plants, factories and schools, because of the shortage of coal.—M. R. W.

TEMPERATURE

The monthly mean for the State, 100 stations reporting, was 40.2°, or 6.0° warmer than the 59-year December average. The highest monthly mean was 47.8° at Caruthersville, and the lowest was 32.2° at Tarkio. The highest reported was 77° at Anderson, Mount Vernon, and Ozark Beach, on the 6th, and the lowest was 8° below zero, at Conception, on the 30th.

PRECIPITATION

The average for the State, 212 stations reporting, was 2.44 inches, or 0.26 inch more than the 59-year December average. The greatest monthly amount was 5.66 inches at Hailey, and the least was 0.02 inch at Tarkio. The greatest amount reported in 24 hours was 2.85 inches at Cassville on the 9-10th. The average number of days with 0.01 inch, or more, was 5.

Snowfall averaged 0.5 inch, or 3.0 inches less than the 57-year December average. The greatest monthly snowfall reported was 2.7 inches, at Oregon.

MISCELLANEOUS PHENOMENA

Floods.—In Mississippi River, at Louisiana, flood stage, or higher, occurred on the 9th, 13th, 17th, 23d to 25th, 27th to 28th, 30th and continued into January.

Fogs.—Heavy, 6th, 9th, 10th, 11th, 12th, 15th, 16th, 20th, 26th, 27th, 28th, 29th, 30th.

Glaze.—14th, 15th, 28th, 29th.

Sleet.—12th, 13th, 14th, 20th, 21st, 28th, 29th, 30th.

Windstorms.—No damaging winds reported.

ERRATA

November 1945, page 82: Maximum temperature and date at Marshall should be 87 on the 8th.

Decemmber 1945, page 90: Minimum temperature and date at Unionville should be − 8 on 20th. Greatest 24-hour precipitation and date at Jackson should be 0.70 on 27th.

Daily Precipitation for December 1946

Stations	Drainage-basins	Day of month																															Total
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Northern Division																																	
Albany	Grand	....	....	....	....	....	....	....	....	.01	....	....	.75	....	.01	T.	....	....	....	....	.02	....	....	....	....	....	....	.01	....	.20	....	....	1.00
Amity	do	....	....	....	....	....	....	....	T.	.13	....	....	.93	....	T.	T.	T.	....	....	....	.07	T.	....	....	....	....	....	....	T.	.12	T.	....	1.25
Auxvasse	Missouri	....	....	....	....	....	....	....	....	.71	....	T.	.22	....	....	....	T.	....	....	....	....	T.	....	....	....	....	....	....	T.	.25	T.	....	1.18
Bethany	Grand	....	....	....	....	....	....	....	.49	T.	....	....	.75	....	T.	T.	T.	....	....	....	T.	*T.*	....	....	....	....	....	....	....	.04	*T.*	....	1.28
Bowling Green[2]	Mississippi	....	....	....	....	....	....	....	....	.25	.07	.22	.18	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.40	....	....	1.12
Brookfield[2]	Grand	....	....	....	....	....	....	....	....	.68	....	....	1.70	.40	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.18	....	....	2.96
Browning 3 mi. NE	do	....	....	....	....	....	....	....	....	.38	....	T.	2.32	T.	T.	T.	.02	....	....	....	.03	*T.*	....	....	....	....	....	T.	.01	.09	.01	....	2.86
Brunswick[2]	do	....	....	....	....	....	....	....	....	1.32	....	....	.26	.72	....	....	T.	....	....	....	....	T.	....	....	....	....	....	....	....	.13	T.	....	2.43
Canton, Lock No. 20[2]	Mississippi	....	....	....	....	....	....	....	....	.04	.01	....	.86	1.03	....	....	.04	....	....	....	....	T.	....	....	....	....	....	....	....	.31	*T.*	T.	2.29
Carrollton	Missouri	....	....	....	....	....	....	....	T.	1.63	....	T.	1.00	....	....	....	.01	....	....	....	T.	.01	....	....	....	....	....	T.	T.	.12	T.	....	2.77
Centralia[2]	Mississippi	....	....	....	....	....	....	....	....	.37	....	....	.32	.18	....	....	....	....	....	....	....	*T.*	....	....	....	....	....	....	....	.17	.04	....	1.08
Chillicothe[2] (B)	Grand	....	....	....	....	....	....	....	....	.42	....	....	1.28	.44	....	....	.02	....	....	....	....	.01	....	....	....	....	....	....	....	.03	....	....	2.20
Chillicothe[3] 2 mi ESE (C)	do	....	....	....	....	....	....	....	.36	.04	....	.10	1.87	T.	....	T.	T.	....	....	....	.05	....	....	....	....	....	....	....	.01	.03	T.	....	2.46
Columbia[1, 5]	Missouri	....	....	....	....	....	....	....	....	.77	....	.07	.27	T.	....	T.	.01	....	....	....	.05	....	....	....	....	....	....	....	.18	.07	T.	....	1.42
Columbia[5] 9 mi. WNW	do	....	....	....	....	....	....	....	....	.56	....	.06	.31	T.	....	....	....	....	....	....	T.	T.	....	....	....	....	....	....	T.	.33	.01	....	1.27
Conception	do	....	....	....	....	....	....	....	....	....	....	....	.83	T.	....	T.	....	....	....	....	T.	....	....	....	....	....	....	....	T.	.08	....	....	0.91
Edgerton	do	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Edina[2]	Mississippi	....	....	....	....	....	....	....	....	.47	T.	....	1.38	1.02	....	....	.06	....	....	....	....	T.	....	....	....	....	....	....	....	.24	T.	....	3.17
Elsberry S. C. S.[2]	do	....	....	....	....	....	....	....	....	.26	.17	....	.82	.02	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.42	....	....	1.69
Fayette	Missouri	....	....	....	....	....	....	....	....	.33	....	.03	.84	....	....	....	.01	....	....	....	.01	....	....	....	....	....	....	....	.01	.27	T.	....	1.50
Fulton[2]	do	....	....	....	....	....	....	....	....	.90	.01	....	.14	.02	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.25	....	....	1.32
Gallatin[2]	Grand	....	....	....	....	....	....	....	....	.17	....	T.	1.19	....	.41	T.	T	....	....	....	....	.04	....	....	....	....	....	....	....	T.	T.	T.	1.81
Grant City	do	....	....	....	....	....	....	....	....	....	....	....	.33	....	T.	....	....	....	....	....	T.	....	....	....	....	....	....	....	T.	.03	T.	....	0.36
Hannibal[1] (A)	Mississippi	....	....	....	....	....	....	....	....	.16	....	.10	.77	....	....	T.	T.	....	....	....	....	....	....	....	....	....	....	....	.24	.17	....	....	1.44
Hannibal[2] (B)	do	....	....	....	....	....	....	....	....	.26	T.	....	.30	.60	....	....	.12	....	....	....	....	....	....	....	....	....	....	....	....	.28	T.	T.	1.56
Hermann[2]	Missouri	....	....	....	....	....	....	....	....	.30	.28	....	.33	.20	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.38	....	....	1.49
Kahoka[2]	Mississippi	....	....	....	....	....	....	....	....	.40	....	....	1.25	1.11	....	....	.02	T.	....	....	....	*.01*	*T*	....	....	....	....	....	....	.22	....	....	§3.01
Kansas City Airport[1, 5]	Missouri	....	....	....	....	....	....	....	.66	.05	....	.08	.63	T.	T.	T.	T.	....	....	....	T.	....	....	....	....	....	....	T.	.01	T.	T.	....	1.43
Kansas City University	do	....	....	....	....	....	....	....	.57	.81	....	T.	1.07	....	T.	.01	T.	....	....	....	T.	T.	....	....	....	....	....	T.	....	.01	....	....	2.47
Kidder[2]	Grand	....	....	....	....	....	....	....	....	.20	....	....	1.71	.33	....	T.	.01	....	....	....	....	.01	....	....	....	....	....	....	....	.01	....	....	2.27
King City	Missouri	....	....	....	....	....	....	....	....	.11	....	....	1.10	....	....	.02	....	....	....	....	.07	....	....	....	....	....	....	....	....	.04	....	....	1.34
Kirksville	Mississippi	....	....	....	....	....	....	....	....	.55	....	....	2.30	....	T.	....	....	....	....	....	*T.*	....	....	....	....	....	....	....	.02	.19	....	....	3.06
LaBelle[2]	do	....	....	....	....	....	....	....	....	.16	....	....	1.75	.75	....	....	....	....	....	....	....	*T.*	....	....	....	....	....	....	....	.10	....	....	2.76
Lawson	Missouri	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Linneus	Grand	....	....	....	....	....	....	....	....	.59	....	....	1.72	T.	T.	T.	.02	....	....	....	T.	T.	....	....	....	....	....	....	....	*.05*	T.	....	§2.38
Louisiana (A)	Mississippi	....	....	....	....	....	....	....	....	.26	.04	.03	.54	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.33	....	....	1.20
Louisiana[2] (B)	do	....	....	....	....	....	....	....	....	.17	.10	....	.26	.32	....	....	T.	....	....	....	....	....	....	....	....	....	....	....	....	.40	....	....	1.25
Lucerne[2]	Grand	....	....	....	....	....	....	....	....	.20	....	....	.20	.90	....	....	T.	....	....	....	....	.07	....	....	....	....	....	....	....	.10	....	....	1.47
Macon[2]	Chariton	....	....	....	....	....	....	....	....	.50	T.	....	.51	.81	....	....	T.	....	....	....	....	T.	....	....	....	....	....	....	....	.25	....	T.	2.07
Madison[2]	Mississippi	....	....	....	....	....	....	....	....	.28	....	.50	.45	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.23	....	....	1.46
Martinsburg[2]	Missouri	....	....	....	....	....	....	....	....	.47	.06	....	.28	.04	....	....	....	....	....	....	....	T.	....	....	....	....	....	....	....	.28	....	T	1.13
Maryville	do	....	....	....	....	....	....	....	....	T.	*T.*	....	.18	....	T.	T.	.01	....	....	....	.01	....	....	....	....	....	....	....	T.	.11	T.	....	0.31
Memphis[2]	Mississippi	....	....	....	....	....	....	....	....	.35	T.	....	.82	.93	....	....	.02	....	....	....	....	*.04*	....	....	....	....	....	....	....	.08	*T.*	....	§2.24
Mexico[2]	do	....	....	....	....	....	....	....	....	.40	.05	....	.28	*.10*	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.09	T.	T.	§0.92
Milan[2]	Grand	....	....	....	....	....	....	....	....	.31	....	....	1.09	.47	....	T.	....	....	....	....	....	.07	....	....	....	....	....	....	....	.10	....	....	2.04
Moberly[2] 3½ mi. NE	Mississippi	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Monroe City	do	....	....	....	....	....	....	....	....	.16	....	....	1.28	....	....	....	T.	....	....	....	....	....	....	....	....	....	....	....	....	.23	....	....	1.67
New Florence[3, 5] 1 mi SE	Missouri	....	....	....	....	....	....	....	....	.65	.05	T.	.32	....	....	....	T.	....	....	....	T.	T.	....	....	....	....	....	....	.27	T.	T.	T	1.29
Oregon	do	....	....	....	....	....	....	....	....	T.	....	....	.98	....	T.	T.	....	....	....	....	.03	....	....	....	....	....	....	....	T.	.02	....	....	1.03
Palmyra[2]	Mississippi	....	....	....	....	....	....	....	....	.14	....	....	*	1.32	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.20	....	....	1.66
Paris[2]	do	....	....	....	....	....	....	....	....	.20	....	....	.56	.50	....	....	T.	....	....	....	....	....	....	....	....	....	....	....	....	.24	....	....	1.50
Perry 1 mile E	do	....	....	....	....	....	....	....	....	.25	....	....	.05	.67	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.25	....	....	1.22
Philadelphia	do	....	....	....	....	....	....	....	....	*	....	....	1.17	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	*.20*	....	§1.37
Polo[2]	Missouri	....	....	....	....	....	....	....	....	.41	....	....	T.	1.75	....	....	.02	T.	....	....	....	T.	....	....	....	....	....	....	T.	.07	....	....	2.25
St. Charles[2] (A)	do	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
St. Charles[2] (B)	do	....	....	....	....	....	....	....	....	.40	.29	T.	.54	.08	....	....	....	T.	....	....	....	T.	....	....	....	....	....	....	T.	.95	T.	T.	2.26
St. Joseph[1, 5]	do	....	....	....	....	....	....	....	.04	.01	....	....	1.28	....	T.	T.	....	....	....	....	.01	....	....	....	....	....	....	....	.03	.09	T.	....	1.46
Salisbury	Chariton	....	....	....	....	....	....	....	T.	.63	T.	.05	1.04	....	....	....	T.	....	....	....	.01	.01	....	....	....	....	....	....	T.	.24	T.	....	1.98
Saverton, Lock No. 22[2]	Mississippi	....	....	T.	....	....	....	....	....	.22	.03	....	.40	.33	....	....	.03	....	....	....	....	.02	....	....	....	....	....	....	....	.27	T.	T.	1.30
Shelbina	do	....	....	....	....	....	....	....	T.	.08	....	.03	1.16	....	....	....	....	....	....	....	T.	*T.*	....	....	....	....	....	....	....	.36	*T.*	....	1.63
Shelbyville[2]	do	....	....	....	....	....	....	....	....	.21	....	....	.61	.67	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.16	....	....	1.65
Steffenville	do	....	....	....	....	....	....	....	....	.14	T.	....	1.72	....	....	....	.06	....	....	....	....	.01	....	....	....	....	....	....	....	.19	T.	....	2.12
Tarkio[3]	Missouri	....	....	....	....	....	....	....	T.	....	....	....	T	T.	T.	T.	T.	....	....	....	T.	....	....	....	....	....	....	T.	.02	T.	T.	....	0 02
Trenton[2]	Grand	....	....	....	....	....	....	....	....	.13	....	....	.90	.55	....	....	T.	....	....	....	....	.03	....	....	....	....	....	....	....	.03	....	....	1.64
Troy[2]	Mississippi	....	....	....	....	....	....	....	....	.25	.18	....	.75	.06	....	T.	T.	....	....	....	....	T.	....	....	....	....	....	....	....	.35	T.	....	1.59
Unionville[2]	Chariton	....	....	....	....	....	....	....	....	.10	....	....	.55	.56	....	....	....	....	....	....	....	.04	....	....	....	....	....	....	....	.08	*T.*	....	1.33
Vandalia	Mississippi	....	....	....	....	....	....	....	....	.49	....	T.	.41	T.	....	....	T.	....	....	....	....	....	....	....	....	....	....	....	....	*.25*	T.	....	§1.15
Warrenton	do	....	....	....	....	....	....	....	....	.55	.04	....	.76	T.	....	....	....	....	....	....	....	T	....	....	....	....	....	....	....	.39	T.	....	1.74
Keokuk, Iowa[1]	do	....	....	....	....	....	....	....	.01	.15	....	.02	2.38	....	....	.01	.01	....	....	....	T.	T.	....	....	....	....	....	....	.13	.17	T.	....	2.88
Southwestern Division																																	
Altona[2]	Osage	....	....	....	....	....	....	....	....	.36	....	....	.18	.30	....	T.	....	....	....	....	T.	....	....	....	....	....	....	....	T.	....	....	....	0.84
Anderson[2] 1½ mi. SW	Neosho	....	....	....	....	....	....	....	....	1.04	1.72	.21	.71	.03	....	....	....	....	....	....	....	....	....	....	....	....	....	T.	T.	T.	....	*T.*	3.71
Appleton City 2 mi. W	Osage	....	....	....	....	....	....	....	....	.74	....	....	.40	....	T.	T.	....	....	....	T.	T.	....	....	....	....	....	....	.05	*	.09	....	....	1.28
Ava Ranger Station[2]	White	....	....	....	....	....	....	....	....	.16	.80	.62	.56	.13	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.42	.10	.83	3.62
Bolivar	Osage	....	....	....	....	....	....	....	....	1.03	.05	.02	.15	....	....	.02	....	....	....	....	T.	....	....	....	....	....	....	....	.27	.30	T.	T.	1.84
Boonville[2] (A)	Missouri	....	....	....	....	....	....	....	....	.40	.03	....	.19	.16	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.33	....	....	1 11
Boonville[2] (B)	do	....	....	....	....	....	....	....	....	.32	.04	....	.20	.09	....	....	....	....	....	....	....	.02	....	....	....	....	....	....	....	.34	....	....	1.01
Bradleyville[2]	White	....	....	....	....	....	....	....	....	.30	1.20	.20	1.10	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1.10	....	....	3.90
Buffalo[2]	Osage	....	....	....	....	....	....	....	....	.58	.61	....	.24	.02	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.67	....	....	2.12
Butler	do	....	....	....	....	....	....	....	T.	.36	....	.02	.52	....	T.	.01	....	....	....	T.	T.	....	....	....	....	....	....	T.	.01	.09	....	....	1.01
Camdenton	do	....	....	....	....	....	....	....	....	.47	.49	....	.33	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.50	....	1.79
Caplinger Mills[2]	do	....	....	....	....	....	....	....	....	.82	.02	....	.09	T.	T.	.02	....	....	....	....	*T.*	....	....	....	....	....	....	....	....	.59	....	....	1.54
Carthage	Neosho	....	....	....	....	....	....	....	....	1.15	.15	.28	.11	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.30	....	....	....	1.99
Cassville[2]	White	....	....	....	....	....	....	....	....	.55	2.85	.18	.82	.03	....	....	....	....	....	....	....	....	....	....	....	....	....	*T.*	....	.47	....	.02	4.92
Chadwick[2]	do	....	....	....	....	....	....	....	....	.29	1.54	.13	1.10	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	T.	.55	....	*T.*	3.61
Clinton[3]	Osage	....	....	....	....	....	....	....	....	.90	....	.02	.34	....	T.	T.	T.	....	....	....	T.	....	....	....	....	....	....	....	.18	T.	....	....	1.44
Concordia	Missouri	....	....	....	....	....	....	....	.04	.79	....	.04	.52	....	....	....	.03	....	....	....	T.	....	....	....	....	....	....	T.	....	.05	....	....	1.47
Crocker	Osage	....	....	....	....	....	....	....	....	.74	.14	T.	.68	....	T.	....	....	....	....	....	....	....	....	....	....	....	....	....	.58	T.	....	T.	2.14
Eldon	Missouri	....	....	....	....	....	....	....	....	1.35	....	T.	.35	....	....	....	T.	....	....	....	....	T.	....	....	....	....	....	....	....	.25	....	....	1.95
Eldorado Springs	Osage	....	....	....	....	....	....	....	....	1.25	....	T.	.07	T.	....	T.	....	....	....	T.	....	....	....	....	....	....	....	....	.15	....	....	....	1.47
Elijah[2]	White	....	....	....	....	....	....	....	....	....	2.04	*	1.54	.17	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.02	1.18	....	....	4.95
Forsyth[2]	do	....	....	....	....	....	....	....	....	.28	1.35	.07	1.10	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1.71	....	....	4.51
Galena[2]	do	....	....	....	....	....	....	....	....	.35	2.15	.11	.94	.02	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.80	....	....	4.37
Granby[2]	do	....	....	....	....	....	....	....	....	1.04	.89	.07	.16	.03	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.79	....	....	2.98
Hailey	do	....	....	....	....	....	....	....	....	2.31	1.13	.98	.64	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	*	.60	....	....	5.66
Harrisonville[2]	Osage	....	....	....	....	....	....	....	....	1.20	....	....	.38	.46	....	T.	....	....	....	....	....	T.	....	....	....	....	....	....	....	.18	....	....	2.22
Jefferson City[2] (A)	Missouri	....	....	....	....	....	....	....	....	1.15	.09	....	.19	.08	....	T.	T.	....	....	....	....	.05	....	....	....	....	....	....	....	.22	T.	....	1.78
Jefferson City[2] (B)	do	....	....	....	....	....	....	....	....	1.15	.17	T.	.20	.06	....	....	....	....	....	....	....	.05	....	....	....	....	....	....	....	.24	....	....	1.87

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Stations	Drainage-basins	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Total
Southwestern Division—	*Concluded*																																
Joplin[1]	Neosho	....	....	....	....	....	....	....	.14	1.09	....	.40	.07	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.47	....	....	*T.*	2.17
Lakeside[2, 5]	Osage	....	....	....	....	....	....	....	....	.70	.43	....	.18	.14	....	.02	T.	....	....	....	....	T.	....	....	....	....	....	....	....	.42	T.	T.	1.89
Lamar[2]	Neosho	....	....	....	....	....	....	....	....	.70	.05	....	.08	.05	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.43	....	....	1.31
Lebanon	Osage	....	....	....	....	....	....	....	....	.85	.26	.04	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.10	.46	....	T.	1.71
Lexington[2]	Missouri	....	....	....	....	....	....	....	....	1.40	....	....	.92	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	*.07*	T.	....	§2.39
Lockwood	Osage	....	....	....	....	....	....	....	....	1.09	....	.17	....	....	*T.*	....	....	....	....	T.	....	....	....	....	....	....	....	....	.13	.02	....	....	1.41
Mansfield[2]	White	....	....	....	....	....	....	....	....	.13	1.48	.04	1.02	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.69	.07	T	....	3.43
Marshall	Missouri	....	....	....	....	....	....	....	T.	.56	....	T.	.61	....	....	....	....	....	....	....	T.	*T.*	....	....	....	....	....	....	T.	.02	....	....	1.19
Marshfield[2]	White	....	....	....	....	....	....	....	....	.19	1.13	.09	.41	.08	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.55	*T.*	....	2.45
Mountain Grove[2]	Gasconade	....	....	....	....	....	....	....	....	.11	.81	.04	1.42	T.	....	....	....	....	....	....	....	....	....	....	....	....	....	....	*	1.28	.01	.03	3.70
Mount Vernon[2]	Neosho	....	....	....	....	....	....	....	....	.92	1.08	.19	.30	T.	T.	T.	....	....	....	....	....	....	....	....	....	....	....	T.	....	.49	....	....	2.98
Neosho	do	....	....	....	....	....	....	....	....	1.57	.51	.24	.17	....	....	....	.01	....	....	....	....	....	....	....	....	....	....	....	.50	.17	....	....	3.17
Nevada	Osage	....	....	....	....	....	....	....	....	1.38	....	....	.08	T.	....	.02	....	....	....	T.	....	....	....	....	....	....	....	....	.22	....	....	....	1.70
Osceola[2]	do	....	....	....	....	....	....	....	....	1.75	....	....	.12	.04	....	.02	....	....	....	....	....	....	....	....	....	....	....	....	....	.42	....	....	2.35
Ozark[2]	White	....	....	....	....	....	....	....	....	.17	1.60	.07	.74	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.70	....	....	3.28
Ozark Beach[2]	do	....	....	....	....	....	....	....	....	.31	1.37	.09	1.08	.03	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1.47	....	*.03*	§4.38
Pierce City[2]	Neosho	....	....	....	....	....	....	....	....	1.20	.70	....	.43	....	.03	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.39	....	*T.*	2.75
Pineview Lookout	White	....	....	....	....	....	....	....	....	2.50	....	.66	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.75	....	....	....	3.91
Pleasant Hill[2]	Osage	....	....	....	....	....	....	....	....	1.30	....	....	.44	.60	....	T.	T.	....	....	....	....	T.	....	....	....	....	....	....	....	.01	....	....	2.35
Roby	Gasconade	....	....	....	....	....	....	....	....	.51	.62	.10	.92	.02	....	....	....	....	....	....	....	.02	....	....	....	....	....	....	.38	.35	....	T.	2.92
St. Thomas[2] 2¼ mi SW	Osage	....	....	....	....	....	....	....	....	.55	.34	....	.35	.15	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	*.35*	....	....	§1.74
Sedalia	Missouri	....	....	....	....	....	....	....	....	.73	....	.08	.67	....	....	....	....	....	....	....	.02	....	....	....	....	....	....	....	.02	.25	....	....	1.77
Seligman[2]	Neosho	....	....	....	....	....	....	....	....	.60	2.19	.20	1.28	*T.*	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	*.30*	....	T.	§4.57
Seymour[2] 3½ mi. NE	White	....	....	....	....	....	....	....	....	.11	1.42	.12	.80	.08	....	T.	....	....	....	....	....	....	....	....	....	....	....	....	T.	.82	T.	T.	3.35
Shell Knob[2] 3 mi. SE	do	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Siloam Sprgs Lookout[2]	do	....	....	....	....	....	....	....	....	....	1.77	.05	1.40	.26	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1.20	....	*	4.68
Springfield[1, 5] 4 mi. NW	do	....	....	....	....	....	....	....	....	1.55	.26	.49	.10	T.	T.	T.	T.	....	....	....	T.	....	....	....	....	....	....	T.	.61	.01	T.	T.	3.02
Stover[2]	Missouri	....	....	....	....	....	....	....	....	1.40	.02	....	.10	.39	....	.01	.01	....	T.	....	....	....	....	....	....	....	....	....	....	.40	.04	....	2.37
Sugar Camp Lookout[2]	White	....	....	....	....	....	....	....	....	.50	2.45	1.55	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.20	....	*T.*	4.70
Sweet Springs	Missouri	....	....	....	....	....	....	....	T.	.70	....	.02	.58	....	....	....	.02	....	....	....	.03	....	....	....	....	....	....	T.	.03	.24	....	....	1.62
Tecumseh[2] ¼ mi. W	White	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Topaz[2]	do	....	....	....	....	....	....	....	....	....	1.00	....	2.00	.26	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.95	....	*T.*	4.21
Vanzant[2] 3¾ mi. SE	do	....	....	....	....	....	....	....	....	T.	1.02	*	1.67	.21	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.94	*T.*	*T.*	3.84
Waco[2]	Spring	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Warrensburg	Missouri	....	....	....	....	....	....	....	T.	.79	....	T.	.50	....	....	*T.*	....	....	....	....	T.	....	....	....	....	....	....	....	T.	.13	....	....	1.42
Warsaw[2] (A)	Osage	....	....	....	....	....	....	....	....	1.55	....	....	.14	.17	....	T.	....	....	....	....	....	T.	....	....	....	....	....	....	....	.40	....	....	2.26
Warsaw[2] (B)	do	....	....	....	....	....	....	....	....	1.60	T.	....	.15	.20	....	.03	T.	....	....	....	....	T.	....	....	....	....	....	....	....	.55	....	....	2.53
Wasola[2]	White	....	....	....	....	....	....	....	....	.22	.99	.07	1.89	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.90	*T.*	*T.*	4.07
Waverly[2]	Missouri	....	....	....	....	....	....	....	....	*.69*	....	....	.40	.32	....	T.	T.	....	....	....	....	....	....	....	....	....	....	T.	....	.16	....	....	§1.57
Waynesville	Gasconade	....	....	....	....	....	....	....	....	.83	.30	.04	.78	.03	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	*T.*	....	....	1.98
Wilderness Lookout[2]	White	....	....	....	....	....	....	....	....	.28	1.39	.07	1.22	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.29	....	....	3.25
Southeastern Division																																	
Advance[3] ½ mile W	St. Francis	....	....	....	....	....	....	....	....	.18	.90	.43	.90	....	....	....	.02	....	....	....	....	....	....	....	....	....	....	.02	1.15	T	T.	.03	3.63
Alton 10 miles SE	Black	....	....	....	....	....	....	....	....	.23	2.02	.44	.59	.06	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.57	....	.03	3.94
Annapolis[2] 7 mi. W	do	....	....	....	....	....	....	....	....	T.	1.05	.06	.60	.06	....	....	....	....	....	....	....	....	....	....	....	....	....	T.	T.	.72	T.	T.	2.49
Arcadia[2]	St. Francis	....	....	....	....	....	....	....	....	....	.80	T.	.85	....	....	....	....	....	....	....	....	....	....	....	....	....	....	T.	.12	.68	*T.*	*T.*	2.45
Belleview[2]	Meramec	....	....	....	....	....	....	....	....	....	.86	.02	.94	.15	....	T.	T.	....	....	....	....	....	....	....	....	....	....	....	....	.89	.01	*T.*	2.87
Bernie[2]	St. Francis	....	....	....	....	....	....	....	....	.21	.32	.28	1.88	.08	....	....	....	....	....	....	T.	....	....	....	....	....	....	....	....	1.54	....	.05	4.36
Birch Tree[2] ½ mile E	Black	....	....	....	....	....	....	....	....	....	.95	1.15	.10	.24	....	....	....	....	....	....	....	....	....	....	....	....	....	....	T.	.88	T.	*T.*	3.32
Black 9 miles NW	do	....	....	....	....	....	....	....	....	.13	.76	.05	1.02	.12	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.07	.96	.01	....	3.12
Bloomfield[2]	St. Francis	....	....	....	....	....	....	....	....	T.	.82	.12	1.04	.34	....	....	....	.08	....	....	....	....	....	....	....	....	T.	T.	....	.76	....	T.	3.16
Bunker[2] 4 miles NW	Black	....	....	....	....	....	....	....	....	....	1.15	....	1.35	.20	....	....	....	....	....	....	....	....	....	....	....	....	....	....	T.	.45	.46	T.	3.61
Campbell	St. Francis	....	....	....	....	....	....	....	....	T.	.43	1.13	.81	T	....	....	....	....	....	....	.03	....	....	....	....	....	....	....	T.	1.65	*T.*	*.15*	§4.20
Cape Girardeau (A)	Mississippi	....	....	....	....	....	....	....	....	.15	.65	.45	.77	.08	....	....	....	.07	....	....	T.	....	....	....	....	....	....	T.	....	.86	T.	.01	3.04
Cape Girardeau[2] (B)	do	....	....	....	....	....	....	....	....	....	.37	T.	1.12	.10	....	....	....	.02	....	....	....	....	....	....	....	....	....	T.	....	.72	....	T.	2.33
Caruthersville[2] (A)	do	....	....	....	....	....	....	....	....	....	....	.42	1.57	.05	....	....	....	....	....	....	T.	.21	....	....	....	....	....	....	....	1.33	T.	....	3.58
Caruthersville[2] (B)	do	....	....	....	....	....	....	....	....	....	.42	1.57	.05	....	....	....	....	....	....	....	T.	.21	....	....	....	....	....	....	....	1.32	....	....	3.57
Centerville(1)[2]	Black	....	....	....	....	....	....	....	....	....	1.02	.01	.66	.26	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.77	*T.*	*T.*	2.72
Centerville(2)[2]	do	....	....	....	....	....	....	....	....	....	.95	.05	.67	.23	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.01	.76	T.	T.	2.67
Clearwater Dam[2]	do	....	....	....	....	....	....	....	....	T.	1.28	.06	.66	.25	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.52	....	T.	2.77
Cook Station[2]	Meramec	....	....	....	....	....	....	....	....	.15	.55	....	.87	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	*	1.08	....	2.65
Crane Mountain[2]	St. Francis	....	....	....	....	....	....	....	....	.03	1.09	....	.46	.09	....	....	....	....	....	....	....	....	....	....	....	....	....	*T.*	....	.65	....	....	2.32
Crystal City	Mississippi	....	....	....	....	....	....	....	....	T.	.63	.05	.55	.02	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.10	T.	*T.*	....	1.35
Cuba	Meramec	....	....	....	....	....	....	....	....	.13	.40	T.	.79	.02	....	.02	T.	....	....	....	....	T.	....	....	....	....	....	....	....	.98	*T.*	....	2.34
Deering[2]	St. Francis	....	....	....	....	....	....	....	....	....	.08	.36	1.80	....	....	....	....	....	....	....	.05	.09	....	....	....	....	....	....	T.	1.36	....	....	3.74
De Soto	Mississippi	....	....	....	....	....	....	....	....	.03	.61	.05	.72	.02	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.03	.93	T.	....	2.39
Dexter[2]	St. Francis	....	....	....	....	....	....	....	....	....	.52	.22	1.32	.21	....	....	....	....	....	....	....	....	....	....	....	....	....	....	T.	.86	....	....	3.13
Doniphan(1)	Black	....	....	....	....	....	....	....	....	.40	1.20	.62	.62	.05	....	....	....	....	....	....	....	....	....	....	....	....	....	.02	.53	.45	*T.*	.08	3.97
Doniphan(2)[2]	do	....	....	....	....	....	....	....	....	....	1.52	.15	.62	.18	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.64	....	*T.*	3.11
East End[2]	Meramec	....	....	....	....	....	....	....	....	....	.75	....	1.01	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.50	....	....	2.26
Eastwood Lookout[2]	Black	....	....	....	....	....	....	....	....	....	2.33	*	.74	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.59	*T.*	.05	3.71
Ellington[2]	do	....	....	....	....	....	....	....	....	....	1.00	.08	.75	.05	....	....	....	....	....	....	....	....	....	....	....	....	....	....	T.	.65	*T.*	*T.*	2.53
Ellsinore	do	....	....	....	....	....	....	....	....	.30	1.63	.39	.31	....	....	....	.02	....	....	....	....	....	....	....	....	....	.02	....	.65	....	*T.*	*.06*	§3.38
Farmington[2]	St. Francis	....	....	....	....	....	....	....	....	....	.77	.09	.41	.08	....	....	....	....	....	....	....	T.	T.	....	....	....	....	....	T.	.97	T.	T.	2.32
Fisk[2]	do	....	....	....	....	....	....	....	....	....	1.14	.04	.98	.12	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.84	....	....	3.12
Fredericktown[2]	do	....	....	....	....	....	....	....	....	....	1.14	.02	.48	.04	....	....	....	....	....	....	....	....	....	....	....	....	....	....	T.	.55	....	.02	2.25
Gerald	Meramec	....	....	....	....	....	....	....	....	.44	.08	....	*	.79	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.72	....	....	2.03
Greenville(1)	St. Francis	....	....	....	....	....	....	....	....	.26	1.45	.30	.39	.04	....	....	....	....	....	....	....	....	....	....	....	....	....	T.	T.	.50	T.	T.	2.94
Greenville[2] (2)	do	....	....	....	....	....	....	....	....	.01	1.66	.04	.49	.14	....	....	....	T.	....	....	....	....	....	....	....	....	....	T.	T.	.70	....	T.	3.04
High Lookout[2]	Black	....	....	....	....	....	....	....	....	T	1.50	.05	1.06	.16	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1.00	....	....	3.77
Jackson	Mississippi	....	....	....	....	....	....	....	....	.12	.78	.30	.62	.11	....	T.	....	.01	....	....	T.	T.	....	....	....	....	....	T.	T.	.92	T.	.01	2.87
Jefferson Barracks	do	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Jerome[2]	Gasconade	....	....	....	....	....	....	....	....	.06	.92	....	.74	.18	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1.06	T.	....	2.96
Koshkonong[2]	Black	....	....	....	....	....	....	....	....	.08	1.82	.16	1.13	.18	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.58	....	....	3.95
Leeper[2]	do	....	....	....	....	....	....	....	....	.04	1.42	.05	.85	.25	....	....	....	....	....	....	....	....	....	....	....	....	....	T.	.62	....	T.	T.	3.23
Licking[2]	Gasconade	....	....	....	....	....	....	....	....	....	.64	....	.95	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1.18	....	....	2.77
Macedonia Lookout[2]	Black	....	....	....	....	....	....	....	....	....	1.10	1.03	.50	.28	....	....	....	....	....	....	....	....	....	....	....	....	....	....	T.	.62	....	T.	3.53
Marble Hill	Mississippi	....	....	....	....	....	....	....	....	.31	.29	.32	.27	.18	....	....	....	....	....	....	....	....	....	....	....	....	....	*T.*	.05	.29	*T.*	*T.*	1.71
Morehouse	do	....	....	....	....	....	....	....	....	.03	.46	.75	.58	.03	....	....	....	....	....	....	T.	....	....	....	....	....	....	....	....	1.16	....	.09	3.10
Moselle[2]	Meramec	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
New Madrid[2]	Mississippi	....	....	....	....	....	....	....	....	....	....	.36	1.78	T.	....	....	....	....	....	....	....	.11	....	....	....	....	....	....	....	1.47	....	T.	3.72
Oates Tower[2]	Black	....	....	....	....	....	....	....	....	....	.80	.03	.63	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	T.	.70	T.	T.	2.16
Owensville[2]	Gasconade	....	....	....	....	....	....	....	....	.38	.12	....	.76	.18	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.68	T.	....	2.12
Pacific[2]	Meramec	....	....	....	....	....	....	....	....	....	*.39*	....	*	.85	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.87	T.	....	§2.11
Parma[2]	St. Francis	....	....	....	....	....	....	....	....	....	T	.70	1.13	....	....	....	T.	....	....	....	....	.05	....	....	....	....	....	....	....	1.70	....	T.	3.58
Perryville	Mississippi	....	....	....	....	....	....	....	....	.46	.32	.32	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.20	.41	....	....	....	1.71
Poplar Bluff[2]	Black	....	....	....	....	....	....	....	....	.08	1.02	.03	.70	.08	....	....	....	....	....	....	....	....	....	....	....	....	....	....	T.	1.03	....	*T.*	2.94
Puxico[2]	St. Francis	....	....	....	....	....	....	....	....	T.	1.11	.03	.76	.16	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.03	1.06	T.	T.	3.15
Qulin[2]	do	....	....	....	....	....	....	....	....	.02	.58	.10	1.50	.05	....	....	....	....	....	....	....	T.	....	....	....	....	....	....	T.	1.34	T.	T.	3.59
Reynolds[2]	Black	....	....	....	....	....	....	....	....	....	.97	.04	.84	.36	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.62	....	....	2.83
Richwoods[2]	Meramec	....	....	....	....	....	....	....	....	.14	.60	....	.78	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1.20	.03	....	2.75
Rolla[2]	do	....	....	....	....	....	....	....	....	T.	.65	....	.72	.12	....	....	....	....	....	....	....	T.	....	....	....	....	....	....	....	.65	T.	T.	2.14
Round Spring[2]	Black	....	....	....	....	....	....	....	....	....	.90	....	1.13	.15	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.93	....	....	3.11

Continued on next page

Daily Precipitation for December 1946—Continued from preceding page

Stations	Drainage-basins	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Total
Southeastern Division — Concluded																																	
St. Louis:																																	
City Office[1], [5]	Mississippi	....	....	....	....	....	....	....	....	.41	.33	.33	1.08	....	....	....	T.	....	....	T.	T.	T.	....	....	....	....	....	T.	.78	.02	T.	T.	2.95
Airport[3], [5]	Missouri	....	....	....	....	....	....	....	....	.43	.21	.13	.57	....	....	....	T.	....	....	....	T.	T.	....	....	....	....	....	.01	.95	.05	T.	T.	2.35
St. Louis Univ.[1], [5]	Mississippi	....	....	....	....	....	....	....	....	.47	.35	.20	.63	....	....	....	....	....	....	T.	....	T.	....	....	....	....	....	.07	.87	.01	T.	....	2.60
Washington Univ.[3]	....do	....	....	....	....	....	....	....	....	.15	.40	....	.74	.07	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.02	.80	*T.*	*T.*	2.18
Salem	Meramec	....	....	....	....	....	....	....	....	.19	.68	.12	.97	T.	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.13	.80	....	....	2.89
Sikeston[3]	Mississippi	....	....	....	....	....	....	....	....	*T.*	.40	.07	1.12	.16	....	....	....	T.	....	....	....	.03	....	....	....	....	....	T.	T.	1.39	*T.*	*T.*	3.17
Steelville[2] ...2½ mi. NE	Meramec	....	....	....	....	....	....	....	....	....	.55	....	.73	....	.10	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.96	....	....	2.34
Sullivan[2]	....do	....	....	....	....	....	....	....	....	.05	.43	....	.54	.06	....	....	....	....	....	....	....	T.	....	....	....	....	....	....	....	1.20	T.	T.	2.28
Summersville[2]	Black	....	....	....	....	....	....	....	....	....	.92	.01	1.19	.21	....	....	....	....	....	....	....	....	....	....	....	....	....	T.	....	.91	....	*T.*	3.24
Union[2] ......1½ mi. SE	Meramec	....	....	....	....	....	....	....	....	.26	.23	.54	....	.12	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1.10	.01	T.	2.26
Valley Park[2]	....do	....	....	....	....	....	....	....	....	T.	.52	....	.80	.10	....	....	....	....	....	....	....	....	....	....	....	....	....	....	T.	.98	....	....	2.40
Van Buren[2]	Black	....	....	....	....	....	....	....	....	.12	1.48	.04	.12	.60	.20	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.58	*T.*	*T.*	3.14
Vichy[3] .....2 miles NW	Meramec	....	....	....	....	....	....	....	....	.43	.15	.22	1.25	....	.01	T.	T.	....	....	....	T.	T.	....	....	....	....	....	....	.66	T.	T.	T.	2.72
Wappapello Dam[3]	St. Francis	....	....	....	....	....	....	....	....	.20	.97	.03	.62	.15	....	....	....	T.	....	....	....	....	....	....	....	....	....	T.	T.	.80	*T.*	T.	2.77
Webster Groves	Mississippi	....	....	....	....	....	....	....	....	.30	.39	.03	.72	....	....	....	....	....	....	....	....	....	....	....	....	....	....	*T.*	T	.84	*T.*	....	2.28
Weingarten	....do	....	....	....	....	....	....	....	....	.16	.60	.10	.60	....	....	....	....	....	....	....	....	*T.*	....	....	....	....	....	....	....	.80	*T.*	....	2.26
West Plains[3]	Black	....	....	....	....	....	....	....	....	.79	.94	1.83	.31	....	....	....	....	....	....	....	....	....	....	....	....	....	....	T.	1.01	T.	T.	.04	4.92
Williamsville[2]	....do	....	....	....	....	....	....	....	....	....	1.87	.21	.48	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1.13	....	*T.*	3.69
Willow Springs[2] 500 ft E	White	....	....	....	....	....	....	....	....	....	1.04	.24	1.29	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1.03	*T.*	*T.*	3.60
Winona Ranger Sta.[2]	Black	....	....	....	....	....	....	....	....	....	1.15	1.25	....	.10	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1.00	*T.*	T.	3.50
Zalma[2]	Mississippi	....	....	....	....	....	....	....	....	.20	1.15	.05	1.25	.10	....	....	....	.05	....	....	....	....	....	....	....	....	....	....	T.	.75	....	....	3.55
Cairo, Ill.[1], [5]	....do	....	....	....	....	....	....	....	....	.07	.48	.86	.69	....	....	T.	.01	....	....	....	.15	....	....	....	....	....	....	T.	1.12	T.	T.	.16	3.54
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....

Except as otherwise indicated, amounts are for 24 hours ending late in afternoon. [1] Midnight to midnight. [2] Measured in the morning; for the preceding 24 hours. [3] Data for 24 hours ending 12:30 A. M. (C. S. T.) of following day. [5] Recording gage. T. Trace or 0.005 inch or less. * Included in next measurement. // Windshield on gage. Italics data interpolated. § Partly interpolated. (A) Record from cooperative station gage. (B) Record from river station gage. (C) Airport.
‡ Received too late to be included in means and extremes.

Daily Evaporation (inches), Mean Temperature (F°), and Wind Movement (miles) for December 1946

(See precipitation data in daily precipitation table)

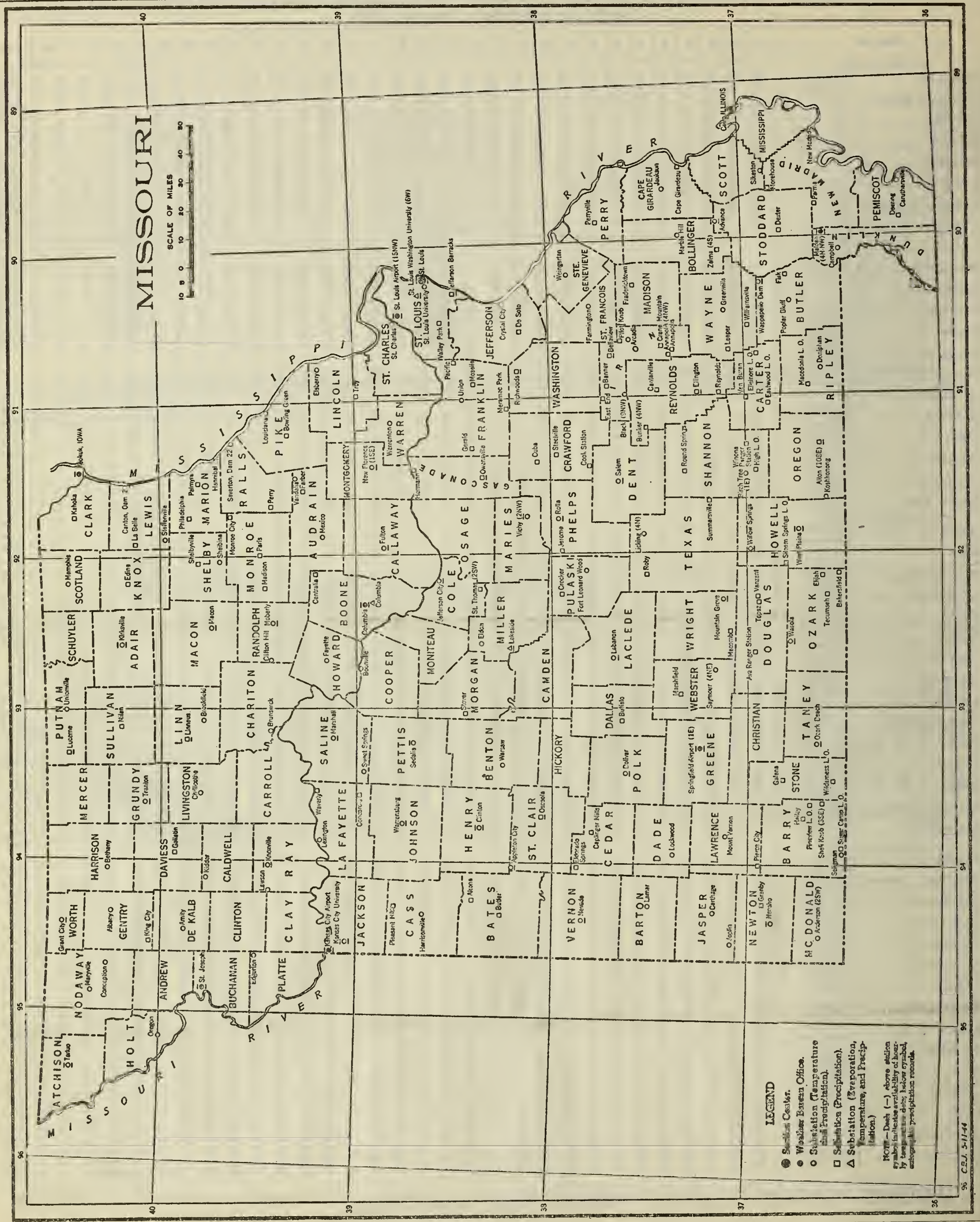
Station	Data	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Monthly
		Day of month																															
Columbia (Univ. of Mo. Hort. Exp. Sta. 9 mi. WNW.)	Evaporation	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	......
	Mean temperature	42	24	40	47	51	50	56	61	61	52	40	43	30	28	37	48	34	24	28	32	38	38	44	36	38	40	56	50	20	8	11	38.8
	Wind movement	104	56	94	68	53	23	77	171	105	71	13	80	47	21	27	54	134	33	44	52	134	43	99	42	53	27	154	136	140	24	74	2,253
Lakeside (Osage Dam)	Evaporation	.087	*	*	.160	.079	.053	.039	.103	.079	.006	.055	.034	*	.082	.003	.000	*	*	*	*	.296	.025	.112	*	.100	.050	.033	.107	....	....	....	1.664
	Mean temperature	36	30	38	47	48	52	52	56	57	54	44	50	40	33	42	50	37	30	31	38	40	44	44	38	42	45	53	49	25	12	13	40.9
	Wind movement	75	56	89	24	38	18	19	105	99	21	15	51	90	34	19	26	108	100	30	79	138	70	76	27	28	28	37	125	114	92	61	1,892
St. Louis (Washington University)	Evaporation	.078	*	*	*	.170	.042	.050	.078	.094	.044	.000	.032	*	*	.076	.012	*	*	*	*	*	*	*	*	*	.300	.020	.035	....	....	....	1.141
	Mean temperature	36	27	35	48	50	54	55	60	58	57	47	50	32	34	38	45	28	27	27	32	37	37	38	38	42	41	53	38	19	16	15	39.0
	Wind movement	78	93	53	18	53	14	29	87	67	41	30	29	79	48	36	36	84	40	24	38	26	45	47	31	37	33	27	93	69	66	72	1,523

Observations taken at 8:00 a. m. except at 5:00 p. m. at Columbia. For Lakeside and St. Louis (Washington University) descriptions see April 1932 and August 1938 reports, respectively. * Included in next measurement.

Daily Temperatures for December 1946

Stations		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Northern Division																																	
Brunswick/	Maximum...	36	36	55	66	63	66	68	67	63	53	53	55	32	35	42	55	31	34	40	41	45	57	44	41	56	58	71	34	11	16	13	46.4
	Minimum ...	33	15	15	27	30	37	37	46	56	52	33	33	24	24	24	34	19	17	16	20	24	22	23	26	24	26	33	30	7	1	6	26.3
Chillicothe Airport..	Maximum...	35	37	58	67	63	67	65	69	63	55	51	50	31	33	40	52	32	33	39	37	42	53	46	40	53	45	71	36	14	15	11	45.3
	Minimum ...	14	10	26	30	39	33	44	56	55	34	29	24	23	21	32	21	14	14	20	22	24	20	26	24	23	30	34	14	0	2	-1	24.4
Columbia	Maximum...	39	36	54	68	64	64	70	69.	62	58	54	55	38	36	44	57	32	35	39	42	46	59	48	48	57	53	71	45	27	18	15	48.5
	Minimum ...	22	18	32	37	42	37	48	54	56	39	39	28	25	27	35	26	20	19	24	29	26	25	28	25	26	36	45	27	4	4	7	29.4
Fayette	Maximum...	49	36	55	66	64	68	68	66	66	60	49	53	35	34	42	56	38	35	40	41	45	58	53	45	55	49	72	65	31	18	13	49.2
	Minimum ...	30	13	28	30	39	34	34	55	55	42	31	31	23	22	32	38	17	15	17	24	30	20	34	25	21	31	31	27	5	1	6	27.1
Grant City	Maximum...	39	35	56	67	61	63	60	70	65	57	55	48	*30*	34	38	46	31	32	38	33	38	48	41	44	55	43	68	40	18	10	12	44.4
	Minimum ...	16	10	25	33	35	33	45	57	51	30	30	28	20	16	26	26	10	10	21	21	26	16	25	24	23	26	35	18	-4	-5	-6	23.3
Hannibal	Maximum...	36	35	49	65	61	65	67	67	60	58	52	54	31	33	38	53	31	31	38	40	38	46	48	41	52	45	70	43	32	16	13	45.4
	Minimum ...	18	15	28	35	44	39	50	55	55	37	31	25	22	22	29	24	15	15	26	25	29	24	30	27	24	31	34	28	5	5	1	27.4
Kansas City Airport	Maximum...	37	42	60	68	67	67	65	69	66	58	52	55	34	36	50	52	33	36	39	40	46	59	48	47	56	48	73	37	13	13	16	47.8
	Minimum ...	22	19	32	45	46	35	55	58	58	39	35	28	27	26	36	24	17	20	28	28	29	28	29	29	30	32	37	13	3	0	6	29.5
Kirksville	Maximum...	45	34	52	64	62	66	55	65	64	59	67	51	30	33	36	50	33	36	36	38	38	50	50	41	52	45	69	59	29	18	13	46.5
	Minimum ...	23	11	26	32	43	36	38	53	54	36	34	29	22	19	27	32	13	13	15	13	29	21	30	28	26	27	31	25	3	2	-1	25.5
Lawson	Maximum...	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
	Minimum ...	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
Louisiana	Maximum...	59	35	50	65	64	68	68	68	63	62	49	56	35	37	40	57	53	33	37	42	41	48	49	41	54	47	71	67	36	22	12	49.3
	Minimum ...	30	14	28	27	45	31	41	56	56	40	28	34	25	23	30	38	19	14	15	27	32	22	35	23	20	31	35	30	10	6	9	28.2
Macon/	Maximum...	37	35	52	65	63	67	69	67	60	50	52	52	30	32	39	52	30	32	40	40	39	52	43	40	52	52	70	30	12	18	9	44.5
	Minimum ...	29	10	11	30	39	34	34	51	54	44	30	30	21	21	21	30	15	14	14	22	23	21	25	28	24	28	31	26	4	3	4	24.9
Maryville	Maximum...	35	36	55	67	61	64	59	71	62	59	55	45	31	30	39	48	31	32	38	35	40	47	41	45	55	43	67	39	15	11	10	44.1
	Minimum ...	25	13	23	32	37	36	41	58	46	29	29	26	20	20	29	27	10	9	22	22	25	20	31	24	23	27	35	15	-3	-6	-5	23.9
Mexico/	Maximum...	36	35	51	64	63	63	68	67	61	52	54	55	34	35	45	56	30	33	37	42	40	54	47	..	53	58	69	38	17	16	13	[a]46.2
	Minimum ...	30	13	16	29	34	36	40	40	55	51	32	37	23	22	23	33	18	15	18	21	26	23	30	25	..	26	37	34	7	4	6	[a]26.8
Moberly/	Maximum...	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
	Minimum ...	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
Oregon	Maximum...	46	40	59	69	63	66	62	70	60	53	52	49	33	31	43	50	33	33	38	38	44	52	48	45	53	48	68	47	14	11	11	46.1
	Minimum ...	27	14	26	41	40	38	38	59	48	30	36	28	21	22	30	30	12	11	25	26	29	24	32	28	29	29	36	13	-1	-6	-4	26.2
St. Charles/	Maximum...	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
	Minimum ...	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
St. Joseph	Maximum...	35	39	61	69	65	67	64	70	63	53	52	50	32	33	44	50	32	36	40	38	44	55	47	42	52	44	70	32	10	10	12	45.5
	Minimum ...	19	16	29	43	44	40	52	58	52	34	37	25	25	24	33	21	15	17	27	28	29	27	31	30	30	31	32	10	-2	-2	0	27.6
Trenton	Maximum...	37	34	60	68	65	65	64	69	64	53	50	*50*	31	32	*40*	*50*	33	35	40	42	42	51	44	50	55	*48*	71	*48*	*29*	15	12	46.7
	Minimum ...	*22*	*12*	26	35	34	40	49	55	*53*	32	31	*27*	21	*20*	32	*32*	13	20	23	*20*	*28*	*18*	*32*	24	24	*25*	*25*	*20*	*2*	-1	-1	25.9
Unionville/	Maximum...	31	35	55	66	65	66	62	67	60	51	52	48	32	30	37	47	29	32	39	36	36	48	40	40	53	49	65	27	16	14	9	43.1
	Minimum ...	25	3	11	25	36	33	33	44	54	36	32	33	21	17	17	29	11	10	10	19	21	17	18	23	21	27	27	22	0	-2	-5	21.5
Warrenton	Maximum...	58	34	50	67	66	68	70	68	64	60	51	60	37	40	40	58	57	34	37	41	53	52	52	47	58	52	69	65	37	20	20	51.1
	Minimum ...	30	12	27	29	44	36	48	55	54	43	29	36	22	25	30	35	19	12	18	28	22	20	39	21	31	35	34	32	10	7	11	28.8
Keokuk, Iowa	Maximum...	37	34	51	66	59	65	65	67	63	58	48	49	27	27	36	53	30	30	39	43	37	44	45	41	53	49	68	40	31	12	11	44.5
	Minimum ...	25	16	33	39	45	38	57	59	58	40	34	27	25	23	27	24	16	15	25	25	29	29	33	30	29	32	36	30	3	5	-3	29.2
Southwestern Division																																	
Clinton	Maximum...	39	43	55	67	63	69	68	67	62	57	55	55	36	37	50	58	32	37	40	40	47	65	47	50	69	56	73	42	20	15	17	49.4
	Minimum ...	22	17	29	35	43	38	52	58	57	35	35	27	25	30	36	28	20	16	22	27	30	26	28	24	24	36	42	20	4	1	10	28.9
Eldon	Maximum...	55	40	56	67	68	75	76	68	66	60	53	60	46	40	..	60	62	37	42	43	47	66	65	54	60	58	76	72	42	16	16	[a]54.9
	Minimum ...	30	16	27	35	46	37	47	56	56	45	36	36	23	29	..	36	19	17	21	16	22	24	34	26	25	41	42	35	9	8	12	[a]30.2
Harrisonville/	Maximum...	40	42	62	67	65	66	66	65	63	54	64	54	39	38	52	57	35	36	38	40	49	63	50	53	58	63	72	33	14	15	12	49.2
	Minimum ...	28	13	20	31	38	37	42	52	53	40	37	39	22	23	26	36	17	12	14	22	24	26	27	26	26	32	37	27	6	-6	0	26.7
Jefferson City	Maximum...	53	38	54	68	68	70	71	69	64	60	54	58	40	37	44	60	44	36	42	44	47	64	52	48	59	54	70	68	37	18	17	51.9
	Minimum ...	29	17	27	28	44	31	48	56	56	41	30	33	24	31	35	38	20	15	15	28	32	20	32	21	22	31	42	36	9	4	10	29.2
Joplin	Maximum...	39	49	60	66	66	75	67	69	64	59	61	59	43	47	61	59	36	40	38	44	53	65	56	53	58	65	72	54	20	16	19	52.7
	Minimum ...	29	23	37	42	51	49	58	63	59	47	48	35	33	38	43	36	24	23	32	31	33	36	38	33	33	47	56	22	11	8	13	36.5
Lamar/	Maximum...	40	46	62	67	66	75	68	68	63	57	57	55	41	45	64	62	35	43	39	45	55	65	55	53	58	65	72	43	19	17	22	52.3
	Minimum ...	30	20	21	33	36	41	42	55	58	50	41	47	28	29	34	43	23	19	17	27	27	27	35	25	24	25	38	38	9	4	5	30.7
Lebanon	Maximum...	60	42	55	66	65	72	69	67	63	58	55	59	48	45	54	62	55	37	38	45	48	64	57	51	59	62	69	66	42	19	29	54.2
	Minimum ...	29	15	27	36	43	41	49	54	55	48	37	37	22	33	38	46	20	16	22	29	29	24	41	25	25	40	47	36	9	6	12	32.0
Lexington/	Maximum...	40	*36*	62	69	68	68	69	68	70	*54*	55	55	36	40	*46*	54	36	38	40	*41*	*45*	*57*	*47*	47	52	54	66	34	*12*	16	14	48.0
	Minimum ...	32	19	*18*	*29*	43	37	*39*	53	52	42	*34*	*35*	24	23	27	37	14	15	22	26	28	*25*	*24*	*29*	29	*30*	*34*	*30*	6	4	7	28.0
Marshall	Maximum...	47	34	51	66	64	67	69	66	65	64	49	49	35	36	43	55	41	35	40	40	45	57	61	45	54	49	71	67	31	14	14	49.2
	Minimum ...	30	15	30	26	43	38	50	56	56	44	32	32	24	23	33	40	17	18	22	27	31	24	28	28	28	33	40	28	4	0	6	29.5
Mouutain Grove	Maximum...	60	41	54	64	64	69	67	65	62	58	51	59	47	40	54	63	60	37	35	45	48	58	54	55	57	62	62	61	49	21	21	53.0
	Minimum ...	32	17	25	38	40	45	44	50	54	50	40	46	25	34	39	43	22	20	25	27	30	28	43	26	27	38	47	38	11	8	14	33.1
Neosho	Maximum...	64	50	60	69	67	74	67	68	66	58	59	59	45	51	65	62	53	41	40	46	53	67	60	52	63	66	71	68	52	20	22	56.7
	Minimum ...	33	18	29	29	47	38	56	59	58	53	37	43	35	39	36	49	24	16	26	25	32	26	46	24	23	32	56	39	12	6	9	34.0
Nevada	Maximum...	55	45	62	66	67	74	66	67	66	61	55	57	39	40	61	59	54	41	36	44	52	65	59	54	58	60	72	69	33	16	20	54.0
	Minimum ...	30	19	30	36	45	40	54	60	58	48	40	39	26	33	39	50	20	15	25	27	30	28	35	24	24	38	51	32	9	3	10	32.8
Sedalia	Maximum...	52	41	55	66	62	67	70	65	66	61	53	55	39	37	45	56	47	36	39	40	46	65	57	47	56	54	71	69	33	20	18	51.2
	Minimum ...	31	17	30	37	46	40	50	48	55	46	36	33	25	26	35	42	18	16	24	27	30	25	38	25	26	38	45	30	6	0	8	30.7
Springfield..4 mi. NW	Maximum...	40	39	54	67	65	72	66	66	59	55	56	55	46	44	58	62	33	36	35	42	48	65	56	51	58	61	68	50	26	16	20	50.6
	Minimum ...	24	20	27	32	40	43	46	53	55	40	43	32	28	36	42	33	20	20	28	28	32	29	32	27	26	38	50	26	7	4	12	31.4
Warrensburg	Maximum...	..	42	55	67	63	67	..	63	65	62	53	55	40	..	46	55	45	36	43	38	46	61	56	49	58	52	72	66	31	14	15	[c]50.7
	Minimum ...	..	15	29	38	43	42	51	..	55	43	38	33	25	26	..	45	19	18	24	28	30	26	41	28	28	38	44	28	6	-2	8	[c]30.2
Southeastern Division																																	
Arcadia/	Maximum...	45	38	54	64	66	70	68	65	64	60	63	60	46	44	46	58	36	36	35	43	49	54	57	55	55	60	65	47	26	24	20	50.7
	Minimum ...	34	17	15	24	23	34	33	43	49	54	34	40	26	25	24	38	26	17	18	20	29	19	19	*25*	22	22	38	45	24	12	14	27.8
Birch Tree .. ½ mile E	Maximum...	61	41	53	64	66	70	67	72	68	60	60	60	54	43	53	62	60	39	34	46	51	56	58	58	56	64	63	63	50	24	23	54.8
	Minimum ...	34	17	24	23	32	32	41	34	56	54	45	52	26	27	40	40	25	13	19	29	33	20	43	25	19	30	48	44	13	10	18	31.2
Caruthersville	Maximum...	67	42	52	59	65	68	67	70	68	65	65	65	62	51	54	65	62	40	38	38	55	55	65	61	55	65	67	68	62	30	29	57.3
	Minimum ...	39	25	27	30	37	43	47	49	53	58	50	57	36	34	39	47	34	24	27	35	33	34	43	38	32	36	47	60	28	19	25	38.3
Crystal City	Maximum...	63	35	54	67	70	73	72	70	67	65	51	64	48	44	43	59	58	37	36	40	47	54	55	53	60	60	67	66	40	26	24	53.8
	Minimum ...	34	17	29	24	35	34	40	55	60	51	30	48	27	29	25	38	25	18	19	30	34	20	35	23	21	37	40	39	17	14	16	31.4
Doniphan	Maximum...	56	40	50	63	62	70	65	68	63	62	58	64	54	47	62	60	57	41	35	47	56	57	61	62	57	66	65	64	47	27	25	55.2
	Minimum ...	39	18	21	22	26	30	34	43	53	55	42	48	30	30	35	38	29	13	21	32	27	20	39	26	20	28	46	47	20	14	21	31.2
Farmington	Maximum...	61	37	51	63	65	68	68	68	63	65	54	61	53	43	43	58	58	35	35	48	47	50	55	52	55	59	63	64	43	23	25	52.7
	Minimum ...	33	15	25	27	42	36	44	49	55	53	34	52	25	26	32	40	22	18	20	28	32	21	38	24	23	40	45	39	10	12	15	31.5
Jackson	Maximum...	59	40	50	62	62	66	68	65	61	61	56	63	57	49	45	59	59	38	34	41	51	49	60	56	52	60	63	65	46	24	24	53.1
	Minimum ...	34	18	26	23	36	32	43	48	51	56	46	54	29	29	40	42	27	18	20	31	35	21	39	25	21	36	43	45	20	16	20	33.0
Poplar Bluff	Maximum...	60	41	54	63	65	69	69	69	65	62	58	64	58	48	51	62	61	40	35	45	55	55	60	62	55	65	66	64	48	26	25	55.5
	Minimum ...	40	21	24	24	29	31	35	42	53	55	47	54	30	34	42	38	30	20	24	32	32	23	37	31	23	30	46	47	25	16	22	33.5
Rolla/	Maximum...	40	38	52	66	65	70	68	65	61	56	57	60	45	40	51	60	31	35	37	44	46	60	56	50	57	62	65	39	12	20	17	49.2
	Minimum ...	30	15	22	35	45	38	45	52	57	53	36	43	23	29	32	38	20	17	21	28	31	23	37	27	27	40	43	36	10	7	10	31.3
St. Louis	Maximum...	45	33	51	64	67	66	69	69	63	60	55	61	38	40	42	58	34	33	34	39	42	47	54	46	59	53	67	56	37	22	18	49.1
	Minimum ...	25	21	30	37	46	47	45	55	56	43	40	31	29	30	31	34	23	20	25	30	34	29	38	32	31	44	43	35	12	12	13	32.9
Salem	Maximum...	60	40	53	67	67	70	68	64	61	60	53	67	47	41	46	59	56	36	35	45	47	57	56	52	57	60	64	62	43	21	20	52.7
	Minimum ...	31	16	26	27	39.	38	45	52	55	50	33	37	24	25	37	42	22	18	20	29	34	20	40	23	20	35	49	38	13	9	15	31.0
Sikeston/	Maximum...	42	38	52	60	64	65	69	68	65	59	63	64	47	49	49	62	36	38	36	40	53	51	62	58	52	64	66	55	35	26	26	52.1
	Minimum ...	42	21	21	30	34	39	39	47	50	52	48	48	31	30	30	40	32	20	21	25	32	27	29	30	26	27	36	54	35	18	20	33.4
Union ......1½ mi. SE	Maximum...	59	35	50	67	67	71	70	68	63	63	52	62	40	41	42	59	58	33	38	40	45	55	53	48	58	54	68	66	39	22	23	51.9
	Minimum ...	32	16	28	24	44	32	41	56	56	44	30	35	25	29	34	39	22	18	16	29	33	20	39	22	21	33	29	37	13	10	14	30.0
West Plains	Maximum...	55	40	54	66	68	72	68	65	63	60	60	61	48	42	57	64	40	40	34	47	54	60	60	58	57	67	63	60	42	24	22	53.9
	Minimum ...	27	18	22	24	29	33	32	50	52	48	46	37	29	37	36	34	19	16	21	30	25	22	33	26	21	28	42	42	12	10	18	29.6
Cairo, Ill.	Maximum...	57	36	48	59	63	64	63	67	68	61	63	64	46	47	47	64	52	36	36	37	51	48	59	54	50	59	67	66	45	26	27	52.7
	Minimum ...	29	23	30	32	42	44	50	51	54	52	49	40	32	32	43	46	30	25	26	33	34	29	41	35	30	38	50	45	19	19	25	36.4

/ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs. [a], [b], [c], etc., number of days missing, for example, [b] indicates two days missing. Italics data interpolated. § Partly interpolated.


MISSOURI
SCALE OF MILES
10 5 0 10 20 30 40 50
MISSISSIPPI RIVER
MISSOURI RIVER
GASCONADE
ILLINOIS
IOWA
ATCHISON
NODAWAY
WORTH
HARRISON
MERCER
PUTNAM
SCHUYLER
SCOTLAND
CLARK
HOLT
ANDREW
GENTRY
DAVIESS
GRUNDY
SULLIVAN
ADAIR
KNOX
LEWIS
BUCHANAN
DE KALB
CALDWELL
LIVINGSTON
LINN
MACON
SHELBY
MARION
PLATTE
CLINTON
RAY
CARROLL
CHARITON
RANDOLPH
MONROE
RALLS
PIKE
CLAY
LA FAYETTE
SALINE
HOWARD
BOONE
AUDRAIN
MONTGOMERY
LINCOLN
ST. CHARLES
ST. LOUIS
WARREN
CALLAWAY
JACKSON
CASS
JOHNSON
PETTIS
COOPER
MONITEAU
COLE
OSAGE
GASCONADE
FRANKLIN
JEFFERSON
BATES
HENRY
BENTON
MORGAN
MILLER
MARIES
PHELPS
CRAWFORD
WASHINGTON
ST. FRANCOIS
STE. GENEVIEVE
PERRY
VERNON
ST. CLAIR
HICKORY
CAMDEN
PULASKI
DENT
IRON
REYNOLDS
MADISON
BOLLINGER
CAPE GIRARDEAU
BARTON
CEDAR
POLK
DALLAS
LACLEDE
TEXAS
SHANNON
CARTER
WAYNE
STODDARD
SCOTT
MISSISSIPPI
JASPER
DADE
GREENE
WEBSTER
WRIGHT
HOWELL
OREGON
RIPLEY
BUTLER
NEW MADRID
NEWTON
LAWRENCE
CHRISTIAN
DOUGLAS
MC DONALD
BARRY
STONE
TANEY
OZARK
PEMISCOT
DUNKLIN
LEGEND
● Section Center.
● Weather Bureau Office.
○ Substation (Temperature and Precipitation).
□ Substation (Precipitation).
△ Substation (Evaporation, Temperature, and Precipitation.)
NOTE—Dash (—) above station symbol indicates availability of hourly temperature data; below symbol, autographic precipitation records.
C.P.J. 5-11-44

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Nat Hist

U. S. DEPARTMENT OF COMMERCE, WEATHER BUREAU

MAY 16 1947

CLIMATOLOGICAL DATA

19

MISSOURI SECTION

H. F. WAHLGREN
ST. LOUIS, MO.

Vol. L ANNUAL SUMMARY 1946 No. 13

PRICE: 5 CENTS A COPY; 25 CENTS A YEAR

GENERAL SUMMARY

The year 1946, as a whole, was considerably warmer than normal, in fact there have been only three years since records began in 1888 with higher annual average temperatures. May, August and September were the only months with subnormal mean temperatures, while February, March and December were abnormally warm, March in particular, it being second-warmest month of that name, on record. The highest temperature recorded, 111°, exceeded that for any year since 1940. The average precipitation this year, 44.18 inches, was more than the long-time annual average, but considerably less than the year previous (53.26 inches). There was a marked variation in the annual totals and also the greatest and least monthly amounts for individual stations, for example Summersville with the greatest annual total, 64.24 inches, had more than twice as much as Lexington's total, 30.39 inches. Monthly amounts ranged from 20.45 inches at St. Louis, in August, to only a trace at Joplin, in July. The St. Louis August total set a new record for that station, for a single month; length of record, through 1946, is 110 years. Paradoxically, Joplin, with the least monthly amount this year holds the State record for greatest amount of rain in a single month, namely 25.54 inches set in May 1943. Too, that station is located in the extreme southwestern portion, where a severe drought prevailed in August and continued until the first few days in November, when generous rains brought relief.

Excessive rains, falling over a large area, including central and east-central portions of Missouri and extending into west-central Illinois, from August 13th to 16th, inclusive, resulted in heavy property damage, enormous soil erosion and the loss of three lives, through drowning. In downtown St. Louis 13.57 inches of rain fell in a 48-hour period, on August 14-16th, to set a new St. Louis record for that interim. Damage in the city and in St. Louis County, from the unprecedentedly heavy rains and attendant wind and thunderstorms was estimated at $100,000. The bulk of the damage resulted from fires started by lightning striking several downtown St. Louis buildings.

Snowfall for the year averaged only 4.1 inches, the least since the records began 53 years ago, 13.5 inches less than the normal for a year, and 15.5 inches less than in 1945.

The first four months of 1946 (January-April) were the warmest, for a comparable period, in the 59 years that State records have been kept and as a result field and garden crops developed rapidly. By the close of April all vegetation was about a month in advance of normal. Strawberries were being picked in the extreme southern counties at the close of April, the first cutting of alfalfa had been harvested by the second week of that month and blue grass was heading in northwestern counties the last two weeks, the earliest this crop had ever headed according to best authority.

No major floods occurred this year, but moderate overflows occurred on several streams from January to August, inclusive, and again in November. Tornadoes occurred in May, June, August and October. There were no fatalities, but 17 persons were injured and aggregate property damage was somewhat in

(Continued on page 104)

CONDENSED STATE SUMMARY FOR 1946

Month	Temperature				Precipitation				
	Mean	Departure from Normal	Maximum	Minimum	Mean	Departure from Normal	Greatest	Least	No. Days with .01 or more
January	33.8	+ 2.9	71	−15	3.12	+0.80	7.37	0.95	8
February	40.8	+ 7.4	75	− 1	2.81	+0.69	7.33	0.10	5
March	55.3	+11.1	92	12	2.82	−0.42	7.31	0.71	9
April	59.6	+ 4.3	94	25	3.37	−0.66	6.41	0.44	8
May	61.4	− 3.1	87	30	6.88	+2.05	13.83	2.82	14
June	73.9	+ 0.3	104	37	2.72	−2.00	9.19	0.35	6
July	78.9	+ 0.8	107	48	2.68	−0.85	8.15	T.	5
August	74.0	− 2.5	111	37	5.64	+1.79	20.45	0.83	9
September	68.0	− 1.3	97	32	2.24	−1.81	9.77	0.25	6
October	61.1	+ 3.3	92	24	3.02	+0.08	6.98	0.67	6
November	47.0	+ 2.5	81	13	6.44	+3.73	13.89	0.43	10
December	40.2	+ 6.0	77	− 8	2.44	+0.26	5.66	0.02	5
Year	57.8	+ 2.6	111	−15	44.18	+3.68	20.45	T.	91

Italics data interpolated. § Partly interpolated.

COMPARATIVE ANNUAL DATA FOR MISSOURI

Year	Temperature			Precipitation					Number of days			
	Average for State	Highest	Lowest	Average for State	Average Northern Division	Average Southwestern Division	Average Southeastern Division	Snowfall, Average for State	Precip. .01 in. or more	Clear	Partly cloudy	Cloudy
1888	52.9	111	−32	40.40	39.67	41.36	40.17	....	81	....	....	....
1889	54.3	107	− 9	38.19	36.97	40.35	37.26	....	85	....	....	....
1890	54.7	110	−19	39.51	31.07	42.08	45.39	....	82	....	....	....
1891	53.9	104	−13	37.18	37.28	37.71	36.54	....	93	....	....	....
1892	52.8	102	−31	44.77	41.62	47.88	44.80	....	92	141	95	130
1893	52.7	107	−20	39.17	35.42	38.99	43.10	....	77	155	117	93
1894	55.1	111	−35	34.61	26.97	38.27	38.58	15.4	73	170	120	75
1895	52.9	106	−26	40.03	36.74	43.42	39.92	23.7	85	161	108	96
1896	55.5	108	−10	40.37	39.65	39.79	41.68	12.6	86	154	111	101
1897	55.0	108	−16	40.56	35.18	37.46	49.03	19.5	86	167	104	94
1898	54.4	104	−20	54.26	51.87	54.12	56.80	18.6	102	162	102	101
1899	54.0	108	−32	37.93	36.34	36.81	40.64	28.8	82	166	110	89
1900	55.6	105	−16	39.00	35.73	39.57	41.70	18.5	90	171	106	88
1901	55.5	116	−29	25.86	23.36	26.56	27.66	19.2	72	190	98	77
1902	54.1	103	−17	45.01	42.71	48.98	43.33	16.7	103	159	103	103
1903	53.6	102	−25	40.63	38.78	42.79	40.31	16.5	96	170	96	99
1904	53.2	100	−23	42.06	41.59	42.43	42.16	18.8	89	180	99	87
1905	53.6	103	−40	47.00	39.82	51.84	49.35	22.3	97	174	91	100
1906	55.0	101	−13	39.43	30.26	38.78	49.25	28.2	98	165	89	111
1907	55.4	109	−15	40.91	37.01	41.92	43.81	12.8	95	173	82	110
1908	56.8	102	−10	43.81	37.66	47.24	46.54	9.7	91	184	92	90
1909	55.8	110	−20	45.27	44.94	42.95	47.92	18.3	92	173	90	102
1910	54.6	109	−24	37.81	31.96	37.99	43.48	17.2	82	183	81	101
1911	56.7	113	−19	37.43	38.04	37.92	36.33	15.2	88	166	86	113
1912	53.5	105	−36	38.99	32.53	38.82	45.62	39.6	81	192	80	94
1913	56.5	110	−12	38.20	33.14	35.96	45.50	26.0	87	174	80	111
1914	56.1	109	−18	34.68	32.21	36.43	35.41	26.4	81	171	86	108
1915	55.0	102	−24	49.84	48.57	51.74	49.22	25.3	98	160	86	119
1916	55.3	109	−29	40.62	38.58	41.08	42.19	18.2	87	191	77	98
1917	52.6	107	−23	32.21	28.70	31.92	36.01	13.9	80	186	83	96
1918	55.4	111	−25	37.69	32.60	37.19	43.29	27.2	84	185	80	100
1919	55.3	106	−23	40.27	36.73	40.46	43.62	10.2	86	181	81	103
1920	54.3	105	−10	37.56	33.62	38.66	40.40	15.4	89	171	82	113
1921	58.2	109	− 8	44.70	39.16	46.40	48.51	11.1	92	173	93	99
1922	56.8	108	− 6	39.68	37.50	41.64	39.90	8.2	85	192	80	93
1923	55.3	108	−11	42.18	33.43	42.47	50.64	8.6	98	165	88	112
1924	53.0	106	−28	40.03	35.28	44.39	40.41	28.3	92	173	91	102
1925	55.6	110	−15	39.15	38.83	36.81	41.82	16.4	84	171	94	100
1926	54.5	108	−20	42.92	42.35	43.85	42.57	23.2	95	160	86	119
1927	55.6	102	−24	55.53	42.03	59.85	64.70	13.4	101	163	91	111
1928	55.2	102	−18	45.88	41.22	46.01	50.40	6.8	90	174	94	98
1929	53.5	105	−23	46.72	44.13	45.56	50.48	22.3	102	155	93	117
1930	55.9	114	−31	31.38	26.71	34.90	32.53	17.6	75	194	84	87
1931	58.0	110	− 5	40.31	41.10	38.85	40.97	14.2	93	175	82	108
1932	55.6	109	−21	38.24	35.88	36.74	42.09	16.0	85	178	93	95
1933	57.3	108	−22	37.62	29.65	37.05	46.16	8.0	86	175	95	95
1934	57.4	117	−26	35.08	30.66	34.92	39.66	23.0	82	187	89	89
1935	55.0	110	−12	48.04	42.33	49.12	52.66	5.0	106	144	89	132
1936	56.3	118	−25	29.42	26.48	30.03	31.73	15.8	73	196	86	84
1937	54.5	105	−15	37.30	29.85	36.16	45.89	15.3	93	160	96	109
1938	58.4	110	− 9	41.00	36.86	42.36	43.83	10.0	92	182	90	93
1939	57.4	108	− 9	38.25	36.16	35.92	42.68	23.3	93	181	96	88
1940	54.0	111	−28	32.42	28.22	34.22	34.84	25.1	94	159	94	113
1941	57.2	110	0	42.15	41.10	48.07	37.31	14.0	102	151	101	113
1942	55.5	106	−24	46.08	42.48	47.87	47.89	18.9	105	154	97	114
1943	55.1	110	−23	37.89	35.73	42.10	35.87	16.1	89	170	103	92
1944	55.9	107	−21	38.99	39.95	41.59	35.44	16.8	101	150	105	111
1945	54.7	105	−20	53.26	42.79	53.20	63.80	19.6	112	144	95	126
1946	57.8	111	−15	44.18	37.70	44.74	50.07	4.1	91	165	93	107
Period	**55.2**	**118**	**−40**	**40.50**	**36.60**	**41.43**	**43.39**	**17.6**	**90**	**170**	**93**	**102**

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Climatological Data for Year 1946

tations	Counties	Elevation, feet	Temperature (Degrees Fahrenheit)						Precipitation (inches)							Number of days				Prevailing direction of wind
			Length of record, years	Annual mean	Highest	Date	Lowest	Date	Length of record, years	Total	Greatest monthly	Month	Least monthly	Month	Total snowfall	With precip. .01 inch or more	Clear	Partly cloudy	Cloudy	
Northern Division																				
Albany	Gentry	930	6	54.4	98	June 16†	−5	Dec. 30	18	35.55	6.13	June	0.18	Feb.	4.5§	89	125^{x}	149^{x}	67^{x}	s.
Amity	DeKalb	1,007	1	55.6	99	June 16†	−5	Dec. 30	12	31.72	5.93	May	0.26	Feb.	3.9	84	147	97	121	se.
Bethany	Harrison	916	52	54.4	100	Aug. 2	−6	Jan. 1	54	37.58	8.10	June	0.18	Feb.	3.4§	71	198	56	111	se.
Brookfield	Linn	767	5	56.0	102	July 18	2	Jan. 1†	5	35.63	5.31	June	0.85	Feb.	3.0	86	207	80	78	s.
Brunswick	Chariton	652	66	56.0	102	July 18	0	Jan. 2	68	42.31	6.98	Oct.	0.90	Feb.	10.8	101	195^{a}	52^{a}	117^{a}	nw.
Canton, Lock & Dam 20	Lewis	488	9	55.4	98	July 10†	−2	Jan. 1	17	34.09	5.28	Aug.	0.52	Feb.	5.8§	96	165^{d}	95^{d}	101^{d}	sw.
Chillicothe	Livingston	779	38	55.2	102	July 18†	−1	Dec. 31	41	34.18	6.05	June	0.76	Feb.	5.1§	94	237	37	91	ne.
Columbia	Boone	740	57	58.0	104	July 23	4	Dec. 30	57	42.99	6.34	May	1.42	Dec.	6.4	111	163	103	99	s.
Columbia...9 mi. WNW	Boone	760	15	57.0	102	July 19	1	Dec. 30	15	42.22	5.74	July	1.27	Dec.	7.5	99	122	119	124	se.
Conception	Nodaway	1,108	58	55.4	101	June 16	−8	Dec. 30	63	30.64	6.51	Mar.	0.11	Feb.	4.4§	78	143	132	90	se.
Edgerton	Platte	856	27	56.9§	102	June 17	..	....	44	34.02§	9.19	June	0.25	July	*1.7*	72§	§186	§81	§98	......
Elsberry	Lincoln	449	16	55.6	100	July 18	−3	Jan. 22	16	48.11	10.34	Aug.	1.47	April	8.8§	97	188	74	103	se.
Fayette	Howard	760	67	56.7	100	July 18	2	Jan. 1	64	43.92	8.15	July	1.50	Dec.	6.8	104	196	54	115	s.
Fulton	Callaway	818	59	56.6	102	July 18†	2	Jan. 22	55	40.84	7.22	Nov.	1.32	Dec.	5.3§	97	254	53	58	s.
Grant City	Worth	1,134	43	54.3	101	Aug. 2	−6	Dec. 31	55	31.70§	5.83	May	0.15§	Feb.	9.1	83	164^{b}	94^{b}	105^{b}	n.
Hannibal	Marion	759	55	55.6	98	July 18	1	Jan. 26†	63	41.39	7.30	Aug.	0.81	Feb.	4.1	108	140	116	109	s.
Kansas City Airport	Jackson	741	58	58.7	104	July 18	0	Dec. 30	58	31.56	4.57	April	0.58	Nov.	3.8	90	126	109	130	s.
Kansas City University	Jackson	908	9	59.5	106	Aug. 8	−1	Dec. 30	9	36.25	5.48	Oct.	0.63	Nov.	1.4	83	130	137	98	sw.
Kidder	Caldwell	1,020	55	54.9	101	Aug. 2	−4	Jan. 1	59	36.00	7.32	May	0.39	Feb.	5.9	88	178	58	129	s.
Kirksville	Adair	969	58	54.9	96	July 10†	−1	Jan. 26†	65	40.02	7.15	Aug.	0.12	Feb.	3.2	95	228	63	74	s.
Louisiana	Pike	469	53	56.6	101	July 18	0	Feb. 15	66	41.55§	6.84	Aug.	1.20	Dec.	7.0§	119	187	86	92	s.
Macon	Macon	875	48	54.8	99	July 18	2	Jan. 1	54	36.45	6.40	Oct.	0.77	Feb.	8.7	99	159	73	133	nw.
Maryville	Nodaway	1,169	57	54.3	102	June 16	−7	Jan. 1	53	32.98	6.81	Mar	0.17	Feb.	6.5	92	158	67	140	nw.
Memphis	Scotland	787	8	53.4	99	July 10	−4	Jan. 1†	17	35.86§	8.04	July	0.45§	Feb.	7.4	88	168	80	117	sw.
Mexico	Audrain	800	58	55.7	101	July 18	3	Jan. 1	69	39.83§	6.01	May	0.92§	Dec.	5.4§	94	165^{a}	75^{a}	124^{a}	sw.
Moberly...3½ mi. NE	Randolph	860	10	55.8§	101	July 18	..	....	10	35.26§	*5.78*	Oct.	0.98§	Feb.	5.9§	§90	§172^{b}	§75^{b}	§116^{b}	......
New Florence 1 mi. SE.	Montgomery	885	4	55.6	102	July 19	1	Jan. 22	5	38.43	6.18	Oct.	1.29	Dec.	4.2	98	115	88	162	s.
Oregon	Holt	1,048	91	56.0	101	June 15†	−6	Dec. 30	91	36.18	9.77	Sep.	0.18	Feb.	6.5§	78	204	75	86	s.
St. Joseph	Buchanan	957	37	56.8	101	June 16†	−2	Dec. 30	75	30.50	5.23	May	0.28	Feb.	6.1	96	171	96	98	s.
Saverton	Ralls	472	9	56.7	102	July 18	3	Jan. 27	9	44.01	8.41	Aug.	0.97	Feb.	3.0	106	227^{a}	53^{a}	84^{a}	nw.
Shelbina	Shelby	779	6	55.9	101	July 18	0	Feb. 15	24	35.67§	5.37	Oct.	0.76	July	7.3	92	200^{d}	63^{d}	98^{d}	nw.
Steffenville	Lewis	650	49	55.6	100	July 18†	0	Jan. 1†	54	38.50	6.40	Aug.	0.49	Feb.	5.5§	107	180	85	100	s.
Tarkio	Atchison	916	44	53.3	104	June 15	−15	Jan. 1	53	33.85	7.31	Mar.	0.02	Dec.	4.0	79	116	125	124	s.
Trenton	Grundy	822	51	56.2	99	July 18†	−1	Dec 30†	52	37.29	6.67	June	0.52	Feb.	3.7	94	154^{b}	135^{b}	74^{b}	s.
Unionville	Putnam	1,062	54	52.6	97	Aug. 17	−5	Dec. 31	54	35.33	6.47	Aug.	0.34	Feb.	4.0	98	176	131	58	s.
Vandalia	Audrain	766	2	56.8	102	July 18	4	Jan. 26†	7	34.06§	6.60	Nov.	0.62	Feb.	5.2§	74	207	86	72	s.
Warrenton	Warren	816	65	57.1	102	July 18†	−3	Jan. 22	57	44.65	10.43	Nov.	1.16	July	5.1	96	209	101	55	sw.
Keokuk, Iowa	Lee, Iowa	574	75	55.4	100	July 18	−3	Dec. 31	75	31.66	4.63	Aug.	0.37	Feb.	8.2	114	152	127	86	s.
Division means	**and extremes ......**		..	**55.8**	**106**	**Aug. 8**	**−15**	**Jan. 1**	..	**37.70**	**13.60**	**Aug.**	**0.02**	**Dec.**	**5.6**	**91**	**165**	**93**	**107**	**s.**
Southwestern Division																				
Anderson...1½ mi. SW	McDonald	1,000	43	57.5	103	Aug. 8	4	Jan. 27†	48	41.14	7.55	Nov.	0.38	July	2.0	75	230^{f}	38^{f}	91^{f}	sw.
Appleton City	St. Clair	813	52	58.4	110	Aug. 8	1	Dec. 30	55	42.61	10.14	Aug.	1.28	Dec.	4.0	79	182	67	116	sw.
Bolivar	Polk	1,071	44	59.6	105	July 24†	4	Dec. 30	52	40.36	9.71	Aug.	1.37	Mar.	2.1	97	156	106	103	sw.
Boonville	Cooper	650	9	56.3	102	July 18	−2	Dec. 30	70	39.68	5.65	July	1.11	Dec.	7.0	99	148^{a}	97^{a}	119^{a}	sw.
Butler	Bates	865	0	58.2§	110	Aug. 8	0	Dec. 30	6	40.30	7.17	Aug.	0.99	Feb.	2.1§	76	135^{f}	129^{f}	95^{f}	sw.
Camdenton	Pulaski	940	0	59.7§	107	Aug. 8	4	Jan. 1	0	41.12§	7.60	Aug.	*1.54*	Mar.	*4.9*	§94	§179^{c}	§90^{c}	§93^{c}	s.
Carthage	Jasper	962	13	60.3	107	Aug. 8	6	Dec. 30	23	36.66	9.12	May	0.64	June	*2.0*	78	139	181	45	sw.
Clinton	Henry	786	54	58.3	111	Aug. 8	1	Dec. 30	60	45.32	8.43	Aug.	1.44	Dec.	5.0	84	153	122	90	s.
Eldon	Miller	934	52	58.6	103	July 23†	7	Jan. 1	48	50.92	9.01	Aug.	1.69	Mar.	3.3	92	158^{b}	90^{b}	115^{b}	s.
Harrisonville	Cass	904	69	56.5	110	Aug. 8	−6	Dec. 30	72	43.73	6.07	Aug.	1.02	July	7.1§	92	179	59	127	se.
Jefferson City	Cole	557	57	57.7	105	July 23	0	Jan. 1	65	48.96	12.37	Aug.	1.60	Sep.	4.4§	93	168^{a}	101^{a}	95^{a}	......
Joplin	Jasper	1,008	25	61.6	102	July 19†	8	Dec. 30	42	40.72	9.70	May	T.	July	4.5	83	138	116	111	s.
Lakeside	Miller	595	16	58.1	106	Aug. 8	6	Dec. 30	16	55.23	15.96	Aug.	1.40	Mar.	4.0§	96	149	105	111	......
Lamar	Barton	980	59	58.5	104	July 24†	4	Dec. 30	66	35.51	7.62	Nov.	1.30	Sep.	*2.0*	71	213	54	98	sw.
Lebanon	Laclede	1,265	59	58.3	104	July 24	4	Jan. 1	60	44.75	8.77	Aug.	1.17	Sep.	1.5	89	142	93	130	sw.
Lexington	Lafayette	688	62	58.6§	104	July 18†	4	Dec. 30	63	30.39§	4.35§	Oct.	0.40	July	*4.0*	§58	§216^{m}	§64^{m}	§72^{m}	s.
Lockwood	Dade	1,078	41	60.6	105	Aug. 8	4	Dec. 30	51	33.42	7.02	May	0.87	June	5.0	83	181	112	72	sw.
Marshall	Saline	779	60	58.3	101	July 10†	0	Dec. 30	57	36.57	5.77	Aug.	0.97	Feb.	4.5§	74	198	99	68	s.
Mountain Grove	Wright	1,463	46	58.7	104	July 24	6	Jan. 27	50	49.27	9.62	Nov.	1.03	Sep.	4.6	94	162	112	91	se.
Mount Vernon	Lawrence	1,174	35	59.6	103	July 24	5	Dec. 30	47	49.34	12.91	Nov.	0.56	June	*3.1*	81	123	168	74	sw.
Neosho	Newton	1,011	60	60.5	103	Aug. 8	6	Dec. 30	64	42.00	8.66	May	1.05	Oct.	1.5	99	190	85	90	se.
Nevada	Vernon	862	54	60.5	109	Aug. 8	3	Dec. 30	55	36.03	7.34	Nov.	1.04	June	4.6	82	195	58	112	sw.
Ozark Beach	Taney	700	7	59.8	105	Aug. 9	9	Jan. 27†	22	51.72§	13.00	Nov.	0.83	Aug.	4.0§	88	102	152	111	sw.
Sedalia	Pettis	910	34	58.8	106	Aug. 8	0	Dec. 30	36	45.00	8.81	May	1.24	June	7.3§	97	190	57	118	sw.
Seligman	Barry	1,542	46	59.8	101	Aug. 8†	5	Dec. 30	44	44.64	8.90	Nov.	0.74	July	1.0	72	187^{i}	89^{i}	79^{i}	s.
Seymour...3½ mi. NE	Webster	1,642	41	56.0	103	July 24	4	Dec. 30	41	50.80	11.50	Nov.	1.26	June	2.2	81	200	46	119	s.
Springfield...½ mile E	Greene	1,301	59	58.1	104	July 24	4	Dec. 30	59	41.51	8.14	Nov.	1.04	Mar.	3.9	96	99	96	170	s.
Sweet Springs	Saline	700	6	57.9	106	Aug. 8	−4	Dec. 30	6	41.02	5.35	Oct.	1.54	Feb.	9.0	100	152^{c}	143^{c}	67^{c}	s.
Warrensburg	Johnson	878	60	59.2	105	Aug. 8	−2	Dec. 30	67	38.36	7.05	Aug.	1.24	Feb.	4.6	80	202^{b}	72^{b}	89^{b}	sw.
Warsaw	Benton	687	46	59.8	111	Aug. 8	2	Jan. 1	52	43.72	12.56	Aug.	1.23	July	7.5	79	162	86	117	sw.
Wasola	Ozark	1,294	6	60.2	103	July 19	6	Dec. 30	6	51.97	13.89	Nov.	0.96	Sep.	*3.8*	75	177	114	74	s.
Waynesville	Pulaski	805	0	57.8§	106	July 19†	..	....	0	50.33§	10.61§	Aug.	1.63	June	*3.6*	§90	§173^{g}	§106^{g}	§79^{g}	s.
Division means	**and extremes ......**		..	**58.8**	**111**	**Aug. 8**	**−6**	**Dec. 30**	..	**44.74**	**15.96**	**Aug.**	**T.**	**July**	**4.1**	**86**	**170**	**97**	**98**	**sw.**
Southeastern Division																				
Advance...¼ mile W	Stoddard	354	10	58.4	100	July 18	8	Jan. 27	10	47.96	7.46	May	0.83	June	0.5	115	111	87	167	s.
Arcadia	Iron	926	66	56.1	103	July 24	4	Jan. 27†	69	50.72	12.73	May	1.25	Oct.	T.	80	161	46	158	e.
Birch Tree...½ mile E	Shannon	1,000	52	57.8§	102	July 18	1	Jan. 27	53	60.25§	11.93	May	*1.94*	Sep.	2.0	§82	..	..	..	......
Black...9 miles NW	Iron	1,000	54	56.0	101	July 24	−2	Jan. 27	54	48.79	9.07	May	1.25	Oct.	T.	93	190^{f}	71^{f}	97^{f}	sw.
Campbell	Dunklin	314	21	60.7	101	July 18	10	Jan. 27	21	47.19§	7.84	May	1.29	Sep.	3.2	105	162^{m}	129^{m}	61^{m}	s.
Cape Girardeau	Cape Girardeau	347	1	60.9	97	July 18	11	Jan. 27	47	46.78	8.81	May	1.30	June	*0.5*	109	114	129	122	sw.
Caruthersville	Pemiscot	265	51	62.0	95	Aug. 9	14	Jan. 27	55	48.82	6.76	Jan.	0.68	June	2.0	92	183	74	108	se.
Crystal City	Jefferson	420	12	59.4	102	July 19†	5	Jan. 27	13	38.39	7.37	Nov.	1.29	June	1.5§	102	140^{c}	60^{c}	162^{c}	sw.
Doniphan	Ripley	314	43	60.3	105	July 18	3	Jan 27	43	52.06	8.07	May	1.21	June	4.2	99	224	42	99	sw.
Farmington	St. Francois	896	36	57.8	103	July 24	4	Jan. 27	50	47.33	9.56	May	0.71	Oct.	2.7	97	141^{a}	83^{a}	140^{a}	s.
Greenville	Wayne	460	38	58.8§	*100*	July 17	2	Jan. 27	40	54.50§	11.45	May	*1.74*	Sep.	6.2§	§95	§168^{r}	§65^{r}	§114^{r}	......
Jackson	Cape Girardeau	428	56	59.5	100	July 18	4	Jan. 27	57	47.53	8.69	May	1.48	June	0.1	105	148	109	108	s.
Koshkonong	Oregon	958	46	59.2	102	July 18	3	Dec. 30	47	55.61	12.54	May	1.32	Sep.	5.0	98	158	85	122	se.
Licking...4 miles N	Texas	1,170	10	57.3§	103	July 23	1	Jan. 1	10	55.63§	13.18	Aug.	0.82	June	*6.0*	§77	§169^{b}	§59^{b}	§135^{b}	s.
Marble Hill	Bollinger	532	52	59.3	100	July 19†	3	Jan. 27	54	49.39§	10.23	May	1.05	Mar.	*T.*	91	187	88	90	s.
Poplar Bluff	Butler	339	42	60.6	101	Aug. 9	7	Jan. 27	43	55.20§	11.47	May	1.48	June	*0.5*	101	168	90	107	s.
Rolla	Phelps	1,202	47	57.6	104	July 24	5	Jan. 27	63	43.55	9.88	Nov.	1.57	Sep.†	7.5	88	118	160	87	sw.

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Climatological Data for Year 1946—Continued from preceding page

Stations	Counties	Elevation, feet	Temperature, (Degrees, Fahrenheit)						Precipitation (inches)							Number of days				Prevailing direction of wind
			Length of record, years	Annual mean	Highest	Date	Lowest	Date	Length of record, years	Total	Greatest monthly	Month	Least monthly	Month	Total snowfall	With precip. .01 inch or more	Clear	Partly cloudy	Cloudy	
Southeastern Division—	*Concluded*																			
St. Louis:																				
City Office	....	465	110	59.2	99	July 18	10	Jan. 27	110	57.12	20.45	Aug.	1.45	July	5.1	106	123	102	140	s.
St. Louis Airport....	St. Louis	556	10	57.9	101	July 9†	4	Jan. 22	16	50.31	14.78	Aug.	1.38	Jan.	11.3	103	109	72	184	s.
St. Louis University	St. Louis City ...	578	35	59.0	99	July 9	9	Jan. 27	35	58.85	19.06	Aug.	0.96	July	7.5	105	190	77	98	se.
Washington Univ. ..	St. Louis.........	536	9	57.9	101	July 18	5	Jan. 22	9	§55.92	§18.47	Aug.	1.28	Oct.	....	99	..	..	..	......
Salem	Dent.............	1,206	43	57.8	105	July 23†	0	Jan. 1	46	50.12	9.66	Aug.	1.23	June	0.5	88	149	116	100	s.
Sikeston.............	Scott.............	318	40	60.0	98	June 16†	9	Jan. 27†	50	53.62	11.72	May	0.91	June	*0.7*	113	138	151	76	se.
Union........ 1½ mi. SE	Franklin	520	9	57.9	105	July 23	0	Jan. 22	30	§40.22	11.18	Nov.	1.13	July	§5.9	105	164	73	128	nw.
Vichy...... 2 miles NW	Maries...........	1,125	11	57.5	103	July 23	4	Jan. 1	12	43.71	8.57	Nov.	1.50	Sep.	4.5	91	105	97	163	s.
Wappapello Dam......	St. Louis	475	8	§60.1	98	June 17†	8	Jan. 27	8	55.14	12.52	May	1.50	Sep.	0.2	101	197	63	105	sw.
Webster Groves	Butler...........	507	1	§57.1	98	July 19	*4*	Jan. 22	2	52.08	15.13	Aug.	1.37	Sep.	3.7	95	197	78	90	se.
Weingarten	St. Genevieve ...	833	6	58.5	103	July 24	4	Jan. 27	7	47.27	10.65	May	0.85	June	2.0	74	143	129	93	s.
West Plains	Howell	1,005	10	57.6	101	July 18	4	Jan. 27	10	52.77	10.14	May	0.91	Sep.	3.6	101	100	98	167	s.
Willow Sprgs..500 ft. E	Howell	1,238	6	58.1	99	July 19†	5	Jan. 27	40	57.01	11.07	May	1.71	Sep.	1.5	81	163	76	126	s.
Cairo, Ill.............	Alexander, Ill...	314	75	61.4	98	June 16†	13	Jan. 27	76	52.48	11.15	May	1.27	Sep.	3.2	122	111	87	167	s.
....	....	......	..	....	...	....	..	....	..	.....	.....	......	....	......	....	..	..	..	..	......
Division means	**and extremes**	......	..	**58.8**	**105**	**July 18†**	**– 2**	**Jan. 27**	..	**50.07**	**20.45**	**Aug.**	**0.35**	**June**	**2.8**	**96**	**152**	**90**	**123**	**s.**
State means	**and extremes**	......	..	**57.8**	**111**	**Aug. 8**	**–15**	**Jan. 1**	..	**44.18**	**20.45**	**Aug.**	**T.**	**July**	**4.1**	**91**	**165**	**93**	**107**	**s.**

Figures and letters following station indicate distance and direction of station from the city Post Office, unless otherwise indicated. ^{a}, ^{b}, ^{c}, indicate the number of days missing from records, a, 1; b, 2; c, 3; etc. † Also on other dates. Italics data interpolated. § Partly interpolated.

Monthly and Annual Evaporation (Inches) and Wind Movement (Miles) for the Year 1946

(See temperature and precipitation data in Climatological Tables)

Stations	Data	January	February	March	April	May	June	July	August	Sept.	October	Nov.	Dec.	Annual
Columbia............ (Univesity of Mo.)	Evaporation.......	.....	.....	.....	4.466	4.647	7.464	9.465	5.778	5.284	4.380	.....	.....	.....
	Wind movement...	3,626	3,369	3,359	2,232	1,593	1,797	873	812	999	1,671	2,094	2,253	24,678
Lakeside	Evaporation.......	.....	.....	.....	5.649	4.611	8.180	8.699	6.528	5.387	4.581	1,735	1,664	.....
	Wind movement...	.....	.....	.....	1,600	1,583	1,333	819	872	835	1,551	2,028	1,892	.....
St. Louis............ (Washington Univ.)	Evaporation.......	.....	.....	3.109	4.463	3.528	6.441	7.112	3.898	3.900	3.115	1.464	1.141	.....
	Wind movement...	1,772	1,679	1,689	1,256	907	845	711	695	668	976	1,400	1,523	14,121

KILLING FROSTS, 1946

Stations	Last in Spring	First in Autumn	Days in Growing Season
Northern Division			
Albany............	May 11*	Oct. 12*	154
Amity.............	April 12	do 12	183
Bethany	May 21*	do 12	174
Brookfield.........	April 12*	do 12	183
Browning..........	Mar. 11	do 12	215
Brunswick.........	April 12	Nov. 12*	214
Canton	do 13*	do 12*	213
Carrollton.........	....	do 12	....
Chillicothe	April 12	Oct. 11*	182
Clifton Hill	do 12*	....	....
Columbia	Mar. 10	Nov. 12	247
Columbia(near)...	April 12*	do 12	214
Conception........	May 12	Oct. 12	153
Edgerton..........	Mar. 10	....	....
Elsberry...........	April 27*	Nov. 12	199
Fayette............	do 12	do 12	214
Fulton	do 12	do 12	214
Grant City.........	May 11*	Oct. 12	154
Hannibal..........	April 12*	do 12	183
Kansas City Airport	Mar. 10	Nov. 12	247
Kansas City Univ..	April 12	do 12	214
Kidder	May 11*	do 12	185
Kirksville	April 12	Oct. 12	183
Knoxville	do 12*	....	....
Louisiana	do 29*	Oct. 1*	155
Macon.............	do 12*	do 12*	183
Martinsburg	....	Nov. 12	....
Maryville.	May 11	Oct. 12	154
Memphis	April 12*	do 12*	183
Mexico	do 12*	do 12*	183
Milan	do 12	do 12	183
Moberly...........	do 12	....	....
New Florence	do 12*	Oct. 12*	183
Oregon............	Mar. 10	Oct. 12	216
Polo..............	....	do 12*	....
St. Charles	April 12*	....	....
St. Joseph.	Mar. 26	Nov. 11	230
Salisbury..........	....	do 12*	....
Saverton	Mar. 11*	do 12	246
Shelbina	April 12	Oct. 12	183
Steffenville........	do 12	Nov 12	214
Tarkio	May 11*	Oct. 12	154
Trenton...........	April 12*	do 12*	183
Unionville	May 11*	do i2*	154
Vandalia..........	April 12	do 12*	183
Warrenton	do 17*	do 1*	168
Keokuk, Iowa.....	Mar. 11	Nov. 12	246
Southwestern Division			
Altona	....	Nov. 12	....
Anderson..........	Mar. 11	Oct. 12	215
Appleton City.....	do 11	Nov. 12	246
Bolivar............	do 10	do 11	246
Boonville..........	April 12*	do 12	214
Butler	do 12	Oct. 12*	183
Camdenton........	....	Nov. 11	....
Carthage	April 17*	do 11*	208
Clinton............	do 12*	do 13	215
Concordia	do 12	do 12	214
Eldon	Mar. 11	do 11	245
Elijah	April 17	Oct. 12	178
Ft. Leonard Wood.	do 12*	....	....
Granby............	do 12	Oct. 12	183
Harrisonville.	do 12*	Nov. 11	213
Jefferson City	do 27*	Oct. 12*	168
Joplin	Mar. 10*	Nov. 11*	246
Lakeside	April 12*	do 12*	214
Lamar.............	do 12*	do 11*	213
Lebanon	do 17*	Oct. 1*	167
Lexington.........	Mar. 10*	Nov. 11*	246
Lockwood	April 17	do 11	208
Marshall	do 12*	do 11*	213
Mountain Grove ..	do 17	do 11	208
Mount Vernon	do 17*	do 10	207
Neosho	do 17*	Oct. 12*	178
Nevada............	do 12*	Nov. 11	213
Ozark Beach	Mar. 11*	Oct. 12*	215
Pleasant Hill......	April 12	Nov. 12	214
Sedalia	do 12*	do 12	214
Seligman	Mar. 10*	Oct. 12*	217
Seymour	April 12	Nov. 12	183
Springfield	Mar. 10	do 11	246
Sweet Springs	April 12	do 12	214
Warrensburg	do 12*	do 11*	213
Warsaw	do 17*	do 11*	208
Wasola	Mar. 10*	Oct. 12	216
Waynesville.......	....	do 12*	....
Southeastern Division			
Advance	April 17*	Oct. 2*	168
Arcadia	do 27*	do 1*	157
Belleview	do 17	....	....
Birch Tree	do 17	....	....
Black	May 12*	Sep. 24*	135
Campbell..........	Mar. 11*	Nov. 12*	246
Cape Girardeau ...	do 11*	do 12	246
Caruthersville.....	do 11*	do 12	246
Centerville No. 2 ..	April 17	Oct. 1*	167
Clearwater Dam...	....	Nov. 24	....
Crystal City	Mar. 11	do 12	246
Cuba	April 12	Oct. 1	172
De Soto...........	....	Nov. 12	....
Doniphan	April 17*	do 12	209
Farmington	do 17	do 12	209
Greenville.........	do 17*	do 11*	208
Jackson	Mar. 11	do 12	246
Koshkonong	do 9*	Oct. 12*	216
Licking	April 27*	do 12*	168
Marble Hill........	do 17*	do 2*	168
Morehouse	....	Nov. 12	....
Poplar Bluff.......	Mar. 11*	do 12	246
Rolla..............	April 12*	Oct. 12	183
St. Louis:			
City Office.......	Mar. 11	Nov. 17	251
St. Louis Airport	do 11*	do 12	246
St. Louis Univ. ..	do 9	do 17	253
Washington U. .	April 12*	Oct. 12*	183
Salem	do 17	do 12*	178
Sikeston..........	Mar. 11*	Nov. 12	246
Union	April 17	Oct. 1*	167
Vichy	do 12*	Nov. 12	214
Wappapello Dam..	Mar. 11*	do 17*	251
Webster Groves ...	....	do 12	....
Weingarten	Mar. 11	do 12	246
West Plains	April 17*	Oct. 12	178
Willow Springs ...	do 17*	do 12*	178
Cairo, Ill.	Mar. 11	Nov. 12	246
....	....	....	....
....	....	....	....
....	....	....	....

* Occurrence of killing frost not recorded; dates given are last in spring and first in autumn of temperature 32° or lower.

Monthly and Annual Precipitation for the Year 1946, with Departures from Normal

Stations	January		February		March		April		May		June		July		August		September		October		November		December		Annual	
	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure
Northern Division																										
Albany	2.80	+1.97	0.18	−1.44	4.98	+3.29	2.24	−0.55	5.97	+3.29	6.13	+0.89	2.48	−2.15	2.45	−1.15	4.64	−0.91	1.60	−1.19	1.08	−0.63	1.00	+0.13	35.55	+1.55
Amity	2.77	+1.22	0.26	−1.26	4.80	+2.53	1.06	−3.04	5.93	+0.68	5.68	−1.32	0.70	−1.93	0.93	−3.27	4.98	+2.24	2.49	+0.36	0.87	−1.81	1.25	−0.79	31.72	−6.39
Auxvasse	2.37	......	1.75	......	2.63	......	2.01	......	6.51	......	1.40	......	2.15	......	5.36	......	1.42	......	5.86	......	6.40	......	1.18	......	39.04	......
Bethany	2.91	+1.72	0.18	−1.24	4.79	+2.56	2.36	−0.93	4.76	+0.59	8.10	+3.04	0.82	−3.34	3.98	+0.16	4.85	+0.29	2.39	−0.53	1.16	−0.88	1.28	+0.13	37.58	+1.57
Bowling Green	2.20	+0.30	1.70	+0.26	2.24	+0.10	0.95	−1.59	5.20	+1.36	2.94	−0.30	1.76	−1.02	6.54	+2.73	2.36	−0.35	4.59	+2.34	6.73	+3.89	1.12	−0.93	38.33	+6.79
Brookfield	2.84	......	0.85	......	3.08	......	1.92	......	4.85	......	5.31	......	2.52	......	3.88	......	2.37	......	3.53	......	1.52	......	2.96	......	35.63	......
Browning.......3 mi. NE	2.68	......	0.67	......	4.84	......	2.53	......	4.94	......	4.14	......	1.71	......	4.52	......	3.36	......	3.10	......	0.98	......	2.86	......	36.33	......
Brunswick	4.09	+2.50	0.90	−0.91	2.79	+0.09	3.39	−0.44	6.03	+1.42	3.22	−1.89	3.92	−0.19	3.86	−0.08	2.85	−1.96	6.98	+3.98	1.85	−0.34	2.43	+0.76	42.31	+2.94
Canton, L. & D. No. 20	2.92	+0.98	0.52	−0.74	2.08	−0.26	3.00	+0.24	3.95	−1.37	1.78	−3.00	3.24	+0.91	5.28	+2.12	1.81	−1.93	3.65	+1.39	3.57	+0.86	2.29	+0.66	34.09	−0.14
Carrollton	....	......	....	......	....	......	....	......	....	......	....	......	....	......	....	......	....	......	5.05	......	1.44	......	2.77	......	....	......
Centralia	§2.58	......	1.51	......	3.37	......	2.20	......	4.93	......	3.62	......	3.06	......	5.23	......	1.03	......	4.65	......	5.61	......	1.08	......	§38.87	......
Chillicothe (A)	2.44	+0.96	0.76	−0.69	3.74	+1.26	2.10	−1.12	3.95	−0.14	6.05	+1.32	3.20	−0.22	1.63	−2.33	4.04	−0.74	3.04	−0.10	0.77	−1.35	2.46	+1.04	34.18	−2.11
Chillicothe (B)	2.76	......	0.37	......	3.49	......	2.22	......	3.76	......	5.65	......	3.86	......	1.85	......	3.74	......	2.98	......	0.90	......	2.20	......	33.78	......
Clifton Hill	2.90	+1.18	§1.00	−0.74	§2.66	−0.08	§3.30	−0.06	....	......	....	......	....	......	....	......	....	......	....	......	....	......	....	......	....	......
Columbia	2.43	+0.51	2.14	+0.10	2.41	−0.53	3.00	−0.77	6.34	+1.88	2.23	−2.53	4.79	+1.30	5.72	+2.12	1.57	−2.78	5.85	+3.24	5.09	+2.89	1.42	−0.44	42.99	+4.99
Columbia......9 mi WNW	2.19	......	1.90	......	2.15	......	2.49	......	5.70	......	2.76	......	5.74	......	5.40	......	2.17	......	5.01	......	5.44	......	1.27	......	42.22	......
Conception	1.83	+1.04	0.11	−1.04	6.51	+4.86	1.58	−1.15	4.21	+0.15	4.73	−0.22	1.28	−3.39	2.12	−1.52	4.51	−0.13	1.62	−1.26	1.23	−0.51	0.91	+0.03	30.64	−3.14
Edgerton	3.44	+2.59	0.41	−0.93	3.35	+1.09	2.17	−0.91	2.82	−1.38	9.19	+4.32	0.25	−3.25	2.50	−1.54	*4.12*	−0.47	*3.17*	+0.55	*0.88*	−1.09	*1.72*	+0.60	§34.02	−0.42
Edina	2.90	+1.24	0.66	−0.47	4.66	+2.67	2.80	−0.33	6.11	+2.26	3.22	−2.22	3.79	+1.32	5.50	+1.40	1.86	−2.76	2.91	+0.65	1.38	−1.69	3.17	+1.83	38.96	+3.90
Elsberry S. C. S.	2.10	−0.07	2.52	+0.86	3.11	+0.35	1.47	−1.58	6.15	+2.83	2.34	−1.10	3.23	+1.24	10.34	+7.08	2.65	−0.35	4.05	+1.54	8.46	+5.64	1.69	−0.52	48.11	+15.92
Fayette	2.30	+0.51	1.69	−0.01	3.12	+0.30	2.27	−1.28	3.63	−0.69	3.83	−0.74	8.15	+4.90	6.33	+2.77	1.82	−3.14	5.09	+2.20	4.19	+2.09	1.50	−0.16	43.92	+6.75
Fulton	2.38	+0.36	2.20	+0.53	2.50	−0.46	2.47	−1.54	5.58	+0.98	1.72	−2.68	2.68	−0.61	7.10	+3.45	1.49	−3.00	4.18	+0.76	7.22	+4.91	1.32	−0.69	40.84	+2.01
Gallatin	§3.23	+2.01	1.05	−0.54	4.32	+2.00	1.35	−2.21	4.66	−0.06	3.99	−1.07	§2.90	−1.22	1.70	−2.10	4.27	−0.93	3.99	+0.81	§1.25	−0.83	1.81	+0.53	§34.52	−3.61
Grant City	§2.22	+1.25	§0.15	−0.96	4.68	+2.67	1.50	−1.46	5.83	+1.60	4.83	−0.17	1.27	−3.36	3.58	−0.36	3.83	−0.86	2.19	−0.85	1.26	−0.59	0.36	−0.70	§31.70	−3.79
Hannibal (A)	2.48	+0.76	0.81	−1.05	3.48	+0.88	2.76	−0.43	5.18	+0.83	3.34	−0.56	2.11	−0.98	7.30	+3.96	1.61	−2.36	6.34	+3.95	4.54	+2.48	1.44	−0.10	41.39	+7.38
Hannibal (B)	2.68	......	1.17	......	3.80	......	3.00	......	7.10	......	3.33	......	2.69	......	8.11	......	1.54	......	5.73	......	6.13	......	1.56	......	46.84	......
Hermann	2.27	+0.34	2.40	+0.75	2.37	−0.46	2.69	−1.34	7.15	+2.98	2.31	−2.06	1.65	−1.69	5.98	+2.31	2.34	−2.04	2.85	−0.78	10.61	+8.14	1.49	−0.32	44.11	+5.83
Kahoka	2.24	+0.36	*0.37*	−0.70	4.00	+1.89	3.14	−0.12	5.71	+1.45	5.20	+0.29	3.10	+1.22	4.02	+0.74	2.25	−2.29	2.34	−0.11	1.94	−1.41	3.01	+1.32	§37.32	+2.64
Kansas City Airport	3.40	+2.16	0.94	−0.55	2.48	+0.17	4.57	+1.05	2.87	−1.07	4.37	−0.31	0.94	−2.88	3.70	+0.16	2.45	−1.37	3.83	+1.14	0.58	−1.64	1.43	+0.23	31.56	−2.91
Kansas City Univ	3.78	......	0.83	......	2.56	......	4.68	......	2.86	......	4.19	......	1.17	......	2.71	......	4.89	......	5.48	......	0.63	......	2.47	......	36.25	......
Kidder	4.03	+2.81	0.39	−1.15	3.64	+1.45	2.10	−1.18	7.32	+2.67	4.71	−0.26	0.68	−3.20	0.85	−3.11	5.21	+0.01	3.62	+0.55	1.18	−0.97	2.27	+1.00	36.00	−1.38
King City	3.76	+2.62	0.15	−1.35	5.12	+3.06	0.95	−2.35	5.85	+1.64	4.40	−0.91	0.90	−2.64	0.95	−2.73	4.08	−1.34	*2.04*	−0.86	1.18	−0.78	1.34	+0.26	§30.72	−5.38
Kirksville	2.78	+1.26	0.12	−1.41	4.52	+1.58	2.72	−1.38	4.61	−0.72	2.85	−2.21	5.05	+0.75	7.15	+3.03	2.73	−2.45	3.03	−0.13	1.40	−0.72	3.06	+1.30	40.02	−1.10
Knoxville	3.51	......	§0.56	......	2.98	......	3.99	......	5.83	......	§7.69	......	....	......	....	......	....	......	....	......	....	......	....	......	....	......
La Belle	3.19	+1.52	§0.30	−0.97	3.68	+1.36	3.19	+0.28	5.65	+1.21	2.85	−2.39	2.28	+0.10	6.72	+2.10	2.06	−2.01	2.77	+0.49	1.94	−1.16	2.76	+1.22	§37.34	+1.75
Lawson	4.06	+2.10	0.36	−1.03	2.48	−0.22	....	......	....	......	....	......	....	......	1.89	−3.08	....	......	....	......	....	......	....	......	....	......
Linneus	2.59	+0.62	0.37	−0.80	3.93	+1.99	2.36	−0.74	2.96	−1.14	*5.17*	+0.45	§2.42	−0.44	4.44	+0.48	3.12	−0.61	3.18	+0.53	1.03	−1.54	§2.38	+1.00	§33.95	−0.20
Louisiana (A)	§2.65	+0.50	1.67	−0.41	2.63	−0.84	1.48	−2.24	4.60	−0.10	3.13	−1.10	4.35	+0.75	6.84	+2.30	1.80	−2.63	4.76	+1.48	6.44	+3.98	1.20	−0.70	§41.55	+0.99
Lousiana (B)	2.65	......	1.64	......	2.48	......	1.75	......	4.45	......	3.11	......	3.43	......	6.88	......	2.60	......	4.49	......	7.27	......	1.25	......	42.00	......
Lucerne	2.30	+1.28	0.10	−1.10	4.89	+2.84	1.86	−1.70	3.38	−1.35	5.78	+0.14	2.01	−1.05	§5.56	+1.12	2.93	−2.73	3.40	−0.13	1.86	−0.42	1.47	−0.14	§35.54	−3.24
Macon	3.25	+1.55	0.77	−0.93	3.50	+0.66	2.32	−1.34	4.27	−0.32	3.39	−1.33	1.60	−1.81	3.71	−0.10	3.34	−1.10	6.40	+3.51	1.83	−0.36	2.07	+0.43	36.45	−1.14
Madison	2.03	+0.09	0.85	−0.75	3.05	+0.95	2.22	−0.68	3.58	−0.96	3.80	−1.57	2.37	−0.60	4.67	+1.36	1.74	−1.99	5.08	+2.20	5.07	+2.05	1.46	−0.44	35.92	−0.34
Martinsburg	2.36	......	2.09	......	3.40	......	1.69	......	5.54	......	1.05	......	1.46	......	5.00	......	1.89	......	4.09	......	6.85	......	1.13	......	36.55	......
Maryville	1.41	+0.41	0.17	−1.26	6.81	+4.94	1.13	−1.88	4.18	−0.47	4.27	−0.84	1.42	−3.81	3.74	−0.24	6.11	+1.48	1.91	−1.06	1.52	−0.40	0.31	−0.77	32.98	−3.95
Memphis	§2.70	+1.17	§0.45	−0.52	3.68	+1.32	1.93	−1.27	4.06	+0.05	3.37	−1.76	8.04	+5.24	3.87	−0.10	1.75	−2.43	2.26	+0.33	1.51	−1.48	§2.24	+0.96	§35.86	+1.51
Mexico	§3.05	+1.02	§2.05	+0.20	2.89	−0.02	2.11	−1.64	6.01	+1.41	2.44	−2.30	3.88	+0.67	4.10	+0.25	1.50	−3.47	5.49	+2.42	5.39	+3.16	§0.92	−0.99	§39.83	+0.71
Milan	2.49	+1.32	§0.51	−0.87	4.49	+2.24	2.76	−1.21	5.29	+0.47	3.90	−1.20	3.16	+0.08	5.96	+1.72	3.19	−2.35	2.86	−1.11	1.29	−0.89	2.04	+0.23	§37.94	−1.57
Moberly	§2.19	+0.43	§0.98	−0.54	2.89	+0.21	2.86	−1.17	§3.32	−0.65	4.51	−0.45	1.85	−0.75	3.79	−0.02	1.74	−1.74	*5.78*	+2.43	*3.59*	+1.05	*1.76*	−0.23	§35.26	−1.43
Monroe City	2.68	+0.77	0.93	−0.48	2.88	−0.01	2.39	−1.28	5.01	+0.61	4.92	−0.16	3.00	−0.66	4.54	+0.22	1.48	−3.34	6.62	+4.02	5.07	+2.75	1.67	−0.26	41.19	+2.18
New Florence....1 mi. SE	2.41	......	2.47	......	2.10	......	2.67	......	5.88	......	1.34	......	1.48	......	4.77	......	1.74	......	6.18	......	6.10	......	1.29	......	38.43	......
Oregon	1.28	+0.35	0.18	−0.19	5.52	+3.56	1.01	−2.28	5.02	+0.49	5.69	+0.32	0.93	−3.25	2.78	−1.02	9.77	+4.67	2.28	−0.47	0.69	−1.29	1.03	−0.01	36.18	−0.12
Palmyra	2.76	+0.76	*0.73*	−1.01	2.34	−0.34	2.35	−1.38	§6.57	+2.26	3.23	−1.52	*1.83*	−1.42	*7.42*	+3.58	2.25	−2.52	5.61	+3.25	3.91	+1.67	1.66	+0.02	§40.66	+3.35
Paris	2.84	+1.05	1.24	−0.19	2.42	+0.15	1.99	−0.48	4.90	+0.40	4.01	−0.13	2.05	−0.59	4.24	+0.66	1.59	−1.68	4.50	+2.67	5.17	+2.18	1.50	−0.38	36.45	+3.62
Perry	2.48	+0.56	1.10	−0.19	2.60	+0.42	1.57	−0.74	3.78	−0.44	3.60	−0.16	0.45	−2.07	3.36	−0.45	1.53	−1.44	5.42	+3.58	4.64	+1.97	1.22	−0.49	31.75	+0.55
Philadelphia	§3.50	+1.69	§0.50	−1.13	3.47	+1.31	3.73	+1.48	4.64	−0.22	2.60	−2.16	1.10	−2.19	8.67	+4.26	2.40	−0.86	5.85	+3.83	3.60	+0.81	§1.37	−0.22	§41.43	+6.60
Polo	....	......	....	......	....	......	....	......	....	......	....	......	2.18	......	2.03	......	3.85	......	4.01	......	1.34	......	2.25	......	....	......
St. Charles (A)	§2.10	−0.05	2.28	+0.29	3.05	−0.12	1.88	−1.87	....	......	....	......	....	......	....	......	....	......	....	......	....	......	....	......	....	......
St. Charles (B)	1.82	......	2.69	......	3.15	......	1.65	......	6.68	......	1.92	......	1.88	......	13.60	......	1.65	......	2.81	......	11.30	......	2.26	......	51.41	......
St. Joseph	2.35	+1.07	0.28	−1.39	4.80	+2.32	1.79	−1.40	5.23	+0.53	4.22	−0.73	1.28	−2.50	1.44	−2.39	4.70	+0.78	2.06	−0.83	0.89	−0.69	1.46	+0.17	30.50	−5.06
Salisbury	....	......	....	......	....	......	....	......	....	......	....	......	....	......	3.78	......	2.32	......	5.34	......	2.08	......	1.98	......	....	......
Saverton, L. No. 22	2.18	......	0.97	......	2.71	......	2.20	......	6.18	......	4.64	......	2.66	......	8.41	......	1.68	......	5.63	......	5.45	......	1.30	......	44.01	......
Shelbina	2.70	+1.17	§0.92	−0.92	2.83	+0.04	2.90	−0.85	5.27	+0.95	4.06	−0.42	0.76	−3.11	4.08	+0.36	1.90	−3.04	5.37	+2.76	3.25	+1.15	1.63	+0.09	§35.67	−1.82
Shelbyville	2.97	+1.40	0.72	−0.67	3.24	+0.99	3.55	+0.83	5.61	+0.99	2.50	−2.08	0.56	−2.16	7.41	+3.21	2.91	−0.24	5.09	+2.97	3.42	+0.44	1.65	−0.15	39.66	+5.53
Steffenville	3.15	+1.14	0.49	−1.28	4.00	+0.99	3.07	−0.51	5.54	+0.97	3.03	−1.51	1.04	−3.67	6.40	+2.36	2.61	−1.89	4.40	+1.67	2.65	+0.46	2.12	−0.43	38.50	−0.24
Tarkio	0.95	+0.21	0.11	−1.17	7.31	+5.64	0.44	−2.80	3.26	−1.28	5.46	+0.50	2.92	−1.23	2.25	−1.65	7.01	+2.77	2.62	−0.19	1.50	−0.24	0.02	−0.94	33.85	−0.38
Trenton	3.30	+1.96	0.52	−1.06	3.64	+1.19	1.35	−2.23	6.51	+1.81	6.67	+1.63	4.17	+0.10	1.98	−1.90	2.35	−2.40	3.56	+0.43	1.60	−0.52	1.64	+0.23	37.29	−0.76
Troy	1.53	−0.47	2.00	+0.47	2.60	−0.12	1.67	−1.34	6.73	+2.84	2.43	−1.23	1.78	−0.57	5.17	+1.33	2.21	−1.01	4.63	+1.92	9.87	+6.88	1.59	−0.41	42.21	+8.29
Unionville	2.66	+0.91	0.34	−1.43	4.99	+2.49	1.86	−1.84	4.23	−1.02	5.07	−0.12	2.03	−2.09	6.47	+2.19	2.35	−2.74	2.39	−0.74	1.61	−0.59	1.33	−0.38	35.33	−5.33
Vandalia	2.35	......	0.62	......	2.46	......	1.28	......	4.67	......	2.61	......	1.26	......	4.31	......	1.70	......	5.05	......	6.60	......	§1.15	......	§34.06	......
Warrenton	2.14	−0.05	2.51	+0.62	2.49	−0.69	2.30	−1.74	5.68	+1.28	3.04	−0.74	1.16	−1.98	7.02	+3.35	1.75	−2.61	4.39	+0.95	10.43	+7.81	1.74	−0.34	44.65	+5.86
Keokuk, Iowa	2.43	+0.87	0.37	−1.18	2.84	+0.46	2.21	−0.78	3.33	−0.60	3.35	−0.78	1.92	−1.49	4.63	+1.43	2.59	−1.25	2.94	+0.68	2.17	+0.23	2.88	+1.43	31.66	−0.98
Southwestern Division																										
Altona	3.91	+2.08	1.07	−0.35	1.26	−1.32	5.35	+0.47	3.50	−1.88	4.53	−1.39	3.44	+1.16	8.02	+3.70	3.93	−0.16	3.12	+0.43	3.46	+1.19	0.84	−0.80	42.43	+3.13
Anderson...... 1½ mi. SW	4.55	+2.02	2.78	+1.00	1.76	−1.94	6.41	+1.72	6.38	+0.63	3.05	−2.88	0.38	−4.03	1.08	−3.04	1.60	−2.28	1.89	−2.00	7.55	+4.20	3.71	+1.36	41.14	−5.24
Appleton City	3.75	+1.91	1.67	0.00	1.76	−1.39	4.56	+0.43	4.71	−0.09	2.35	−2.67	2.04	−2.27	10.14	+6.18	1.86	−2.52	3.12	+0.16	5.37	+3.07	1.28	−0.31	42.61	+2.50
Ava Ranger Station	§3.80	......	5.02	......	2.61	......	2.91	......	9.78	......	0.85	......	3.21	......	0.84	......	1.80	......	2.95	......	11.93	......	3.62	......	§49.32	......
Bolivar	2.91	+0.98	2.90	+0.80	1.37	−2.06	3.71	−0.46	5.39	+0.04	1.47	−3.84	1.70	−2.02	9.71	+5.85	1.51	−2.70	1.55	−1.70	6.30	+3.72	1.84	−0.50	40.36	−1.89
Boonville (A)	2.42	+0.70	1.86	+0.08	2.70	−0.34	2.45	−1.42	4.49	−0.12	2.84	−2.21	5.65	+2.41	4.91	+0.36	2.30	−2.89	3.72	+0.50	5.23	+3.02	1.11	−0.59	39.68	−0.50
Boonville (B)	2.53	......	1.61	......	2.10	......	2.24	......	4.61	......	3.32	......	5.38	......	5.22	......	1.79	......	3.54	......	5.97	......	1.01	......	39.32	......
Bradleyville	4.86	......	4.75	......	1.86	......	3.36	......	12.51	......	1.22	......	2.31	......	3.14	......	1.27	......	3.58	......	12.83	......	3.90	......	55.59	......
Buffalo	1.96	−0.15	3.56	+1.80	0.96	−1.95	4.76	+1.09	6.09	+0.89	2.79	−2.23	1.83	−1.13	10.29	+6.17	1.38	−1.97	1.67	−1.15	7.35	+3.95	2.12	+0.05	44.76	+5.37
Butler	4.20	......	0.99	......	1.57	......	4.91	......	3.69	......	1.62	......	3.87	......	7.17	......	4.59	......	3.29	......	3.39	......	1.01	......	40.30	......
Camdenton	*2.14*	......	*2.88*	......	*1.54*	......	*4.28*	......	4.19	......	2.26	......	1.79	......	7.60	......	2.09	......	3.89	......	6.67	......	1.79	......	§41.12	......
Caplinger Mills	2.20	+0.28	2.61	+1.33	1.05	−1.68	3.44	−0.15	3.75	−1.12	1.80	−4.26	0.92	−2.84	9.31	+4.76	1.69	−2.03	2.87	−1.01	9.67	+6.91	1.54	−0.16	40.88	−0.07
Carthage	3.62	......	2.85	......	1.70	......	4.01	......	9.12	......	0.64	......	0.89	......	2.85	......	1.11	......	1.77	......	6.08	......	1.99	......	36.66	......
Cassville	3.65	......	4.59	......	1.21	......	3.94	......	6.11	......	6.97	......	0.73	......	1.38	......	1.05	......	*1.99*	......	§7.90	......	4.92	......	§44.47	......
Chadwick	*3.33*	......	*3.84*	......	*1.48*	......	*3.27*	......	7.43	......	3.47	......	1.83	......	3.24	......	1.29	......	3.55	......	10.83	......	3.61	......	§47.20	......
Clinton	3.45	+1.42	1.71	−0.24	1.59	−1.77	4.72	+0.55	4.80	−0.03	5.17	+0.27	3.27	−0.16	8.43	+4.78	3.75	−0.77	3.33	−0.12	3.66	+1.50	1.44	−0.43	45.32	+5.00
Concordia	3.56	+2.02	1.25	−0.23	2.12	−0.43	3.76	+0.42	3.11	−1.64	2.11	−3.37	3.04	−0.95	3.55	−0.30	2.22	−2.28	4.62	+0.82	2.07	−0.15	1.47	−0.30	32.88	−6.39
Crocker	2.55	−0.13	3.09	+1.20	1.00	−1.23	4.34	+0.51	6.03	+2.23	1.68	−1.27	3.55	−0.53	13.96	+10.23	2.73	−1.34	2.86	+0.52	11.06	+8.93	2.14	−0.02	54.99	+19.13
Eldon	1.84	+0.08	2.24	+0.42	1.69	−1.35	4.41	+0.28	6.53	+2.23	2.55	−1.49	5.72	+2.50	9.01	+5.35	1.94	−2.68	4.34	+0.64	8.67	+6.22	1.95	+0.19	50.92	+12.39
Eldorado Springs	2.59	+0.37	2.61	+0.16	2.16	−0.77	3.41	−0.82	4.32	−0.83	0.81	−4.12	1.05	−3.27	8.01	+4.90	1.47	−1.94	4.16	+1.60	7.41	+5.02	1.47	−0.72	39.53	−0.42
Elijah	5.21	......	4.50	......	4.41	......	4.01	......	9.94	......	3.20	......	4.97	......	1.27	......	2.68	......	2.00	......	10.80	......	4.95	......	57.94	......
Forsyth	4.33	......	4.41	......	0.71	......	2.57	......	10.76	......	2.11	......	2.67	......	1.07	......	0.77	......	3.07	......	13.47	......	4.51	......	50.45	......
Fort Leonard Wood	2.49	......	2.26	......	1.20	......	5.55	......	....	......	....	......	....	......	....	......	....	......	....	......	....	......	....	......	....	......
Galena	3.41	+0.74	3.46	+1.52	1.87	−1.47	3.44	−0.68	6.78	+1.64	3.53	−1.23	1.63	−2.13	0.85	−3.25	1.20	−2.28	3.37	−0.11	11.69	+8.39	4.37	+2.20	45.60	+3.34

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Monthly and Annual Precipitation for the Year 1946, with Departures from Normal—Continued from preceding page

Stations	January		February		March		April		May		June		July		August		September		October		November		December		Annual	
	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure
Southwest Div.-Cont.																										
Granby	3.44	....	*3.30*	....	*1.79*	....	3.52	....	9.09	....	2.09	....	1.25	....	2.26	....	1.08	....	1.25	....	8.33	....	2.98	....	§40.38	....
Hailey	4.23	+1.31	4.73	+2.93	3.15	−0.33	3.41	−0.98	§7.50	+2.26	2.52	−3.08	0.50	−3.19	1.52	−3.42	1.26	−2.51	2.94	−1.36	13.77	¶10.66	5.66	+3.34	§51.19	+5.63
Harrisonville	3.74	+2.17	1.72	−0.01	2.30	−0.50	5.14	+1.76	5.05	+0.62	5.56	+0.77	1.02	−2.59	6.07	+1.89	3.37	−1.53	5.45	+2.48	2.09	−0.05	2.22	+0.77	43.73	+5.78
Jefferson City .....(A)	2.32	+0.34	2.81	+1.05	1.83	−1.23	3.91	−0.07	4.63	+0.22	2.98	−1.25	3.63	+0.52	12.37	+8.54	1.60	−2.63	3.32	−0.05	7.78	+5.39	1.78	−0.16	48.96	+10.67
Jefferson City .....(B)	2.32	....	3.04	....	1.98	....	2.90	....	5.43	....	3.14	....	2.93	....	12.21	....	1.67	....	2.75	....	5.33	....	1.87	....	45.57	....
Joplin	3.06	+0.90	3.11	+1.43	1.93	−1.27	5.35	+0.65	9.70	+4.34	1.84	−4.16	T.	−4.62	3.00	−0.97	2.07	−1.85	2.39	−1.06	6.10	+3.33	2.17	+0.28	40.72	−3.00
Lakeside	1.99	−0.19	3.04	+1.22	1.40	−1.35	3.43	+0.45	4.47	+0.20	2.57	−2.04	3.80	+1.65	15.96	¶12.79	2.82	−1.58	2.18	−0.63	11.68	+7.97	1.89	−0.41	55.23	+18.08
Lamar	2.90	+1.07	2.34	+0.57	1.76	−1.43	3.32	−1.20	5.71	+0.45	1.65	−3.89	2.92	−1.30	2.90	−1.39	1.30	−3.25	1.78	−1.83	7.62	+5.09	1.31	−0.57	35.51	−7.68
Lebanon	2.30	−0.34	3.39	+1.20	1.31	−2.17	5.69	+1.34	5.12	−0.09	2.20	−2.97	3.45	−0.51	8.77	+4.28	1.17	−3.32	1.28	−2.49	8.36	+5.72	1.71	−0.57	44.75	+0.08
Lexington	§3.72	+2.20	0.86	−0.98	2.48	−0.30	4.02	+0.22	3.67	−1.29	2.42	−2.13	0.40	−3.61	3.70	+0.18	*1.95*	−2.82	§4.35	+1.32	0.43	−1.69	§2.39	+0.80	§30.39	−8.10
Lockwood	2.38	+0.52	3.12	+1.39	1.38	−2.18	3.46	−1.07	7.02	+1.70	0.87	−4.81	1.87	−2.89	3.79	−0.91	1.67	−3.11	1.01	−2.89	5.44	+2.60	1.41	−0.73	33.42	−12.38
Mansfield	*3.78*	....	*4.63*	....	*2.34*	....	3.87	....	9.60	....	1.64	....	2.14	....	3.25	....	1.33	....	2.64	....	11.01	....	3.43	....	§49.66	....
Marshall	3.40	+1.75	0.97	−0.81	2.12	−0.80	§2.76	−1.13	4.02	−0.59	2.00	−2.80	4.70	+1.13	5.77	+1.87	1.70	−3.80	5.17	+2.04	2.77	+0.45	1.19	−0.56	36.57	−3.25
Marshfield	2.62	....	3.03	....	1.50	....	4.31	....	6.16	....	2.56	....	2.63	....	5.10	....	1.79	....	1.28	....	8.00	....	2.45	....	41.43	....
Mountain Grove	3.89	+1.16	5.04	+2.81	2.51	−1.33	4.12	−0.40	9.01	+4.55	1.41	−3.53	2.26	−1.63	4.04	−0.30	1.03	−3.03	2.61	−0.85	9.62	+6.67	3.70	+1.29	49.27	+5.41
Mount Vernon	2.13	−0.58	4.45	+1.85	1.99	−1.90	4.41	−0.04	8.73	+3.22	0.56	−4.70	6.99	+1.80	1.80	−2.68	0.98	−2.86	1.41	−1.97	12.91	+9.97	2.98	+0.44	49.34	+2.55
Neosho	3.60	+1.13	3.41	+1.42	2.05	−1.50	4.34	−0.22	8.66	+3.10	2.03	−3.94	1.37	−3.28	2.82	−1.55	2.10	−2.19	1.05	−2.64	7.40	+4.10	3.17	+0.89	42.00	−4.68
Nevada	4.07	+2.24	2.06	+0.31	2.01	−0.86	2.64	−1.65	4.02	−0.91	1.04	−4.41	1.90	−1.76	3.40	−0.37	2.36	−1.95	3.49	+0.42	7.34	+5.19	1.70	−0.05	36.03	−3.80
Osceola	3.30	+1.17	2.07	+0.35	1.33	−1.86	4.34	−0.04	3.67	−1.80	1.14	−4.09	§2.35	−1.51	9.57	+5.50	1.97	−2.84	1.91	−1.25	7.39	+4.61	2.35	+0.22	§41.39	−1.54
Ozark	3.00	....	3.57	....	1.21	....	3.19	....	6.32	....	3.16	....	0.63	....	4.83	....	1.38	....	3.05	....	9.99	....	3.28	....	43.61	....
Ozark Beach	4.31	+1.34	4.39	+2.59	1.20	−1.89	2.69	−1.78	10.21	+4.99	1.76	−4.12	5.38	+1.99	0.83	−3.50	1.12	−2.07	2.45	−1.42	13.00	¶10.23	§4.38	+1.63	§51.72	+7.99
Pierce City	2.78	....	3.84	....	1.47	....	6.23	....	6.50	....	1.40	....	2.56	....	2.34	....	1.11	....	1.06	....	9.08	....	2.75	....	41.12	....
Pineview Lookout	....	....	3.39	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	3.91	....	....	....
Pleasant Hill	3.96	....	1.21	....	2.45	....	5.23	....	5.01	....	6.50	....	3.63	....	4.74	....	4.37	....	4.96	....	1.98	....	2.35	....	46.39	....
Roby	3.52	....	3.22	....	2.27	....	4.60	....	6.50	....	0.89	....	3.99	....	9.41	....	2.22	....	1.93	....	8.47	....	2.92	....	49.94	....
St. Thomas...2¼ mi. SW	§2.52	+0.04	§3.58	+2.25	§1.80	−0.71	§3.52	+0.36	§6.33	+1.95	§4.65	−0.67	§6.31	+3.97	10.36	+6.67	§2.43	−2.43	§2.16	−1.73	§12.73	+9.53	§1.74	−0.57	§58.13	+18.66
Saunders Lookout	3.69	....	3.60	....	1.06	....	§2.99	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Sedalia	3.07	+0.82	1.63	−0.51	3.35	+0.52	3.54	−0.19	8.81	+4.27	1.24	−4.04	1.51	−2.93	8.03	+2.85	2.28	−2.62	5.02	+2.34	4.75	+3.13	1.77	+0.49	45.00	+4.13
Seligman	3.61	+0.82	4.04	+2.20	1.92	−1.68	3.59	−0.47	7.37	+1.93	4.60	−0.35	0.74	−3.38	1.01	−2.99	2.02	−1.66	2.27	−1.19	8.90	+5.81	4.57	+2.37	44.64	+1.41
Seymour ....3½ mi. NE	3.65	+1.06	3.82	+1.64	1.86	−1.80	4.61	+0.29	8.10	+3.27	1.26	−4.08	4.61	+0.67	3.80	−0.44	1.98	−2.04	2.26	−1.22	11.50	+8.61	3.35	+1.09	50.80	+7.05
Shell Knob....3 mi. SE	....	....	3.80	....	1.52	....	3.33	....	7.41	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Siloam Spgs. Lookout	4.32	....	§4.57	....	3.78	....	3.40	....	11.42	....	2.14	....	4.79	....	3.49	....	0.25	....	2.08	....	9.02	....	4.68	....	53.94	....
Springfield....4 mi NW	2.95	+0.61	3.17	+0.82	1.04	−2.35	4.00	+0.14	7.09	+1.90	2.35	−2.33	1.47	−2.74	5.79	+1.70	1.27	−2.25	1.22	−1.83	8.14	+5.35	3.02	+0.71	41.51	−0.27
Stover	§2.35	+0.67	1.74	+0.31	§1.47	−1.16	3.84	+0.02	5.80	+0.99	§0.77	−4.58	§3.68	+0.33	8.79	+4.87	2.07	−2.00	2.18	−1.84	6.72	+3.94	2.37	+0.23	§41.78	+1.78
Sugar Camp Lookout	....	....	§4.47	....	1.75	....	4.00	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	4.70	....	....	....
Sweet Springs	3.28	....	1.54	....	2.57	....	3.61	....	3.83	....	4.66	....	3.61	....	4.47	....	2.72	....	5.35	....	3.76	....	1.62	....	41.02	....
Topaz	3.72	....	4.38	....	3.54	....	3.57	....	10.10	....	1.73	....	3.46	....	2.36	....	1.87	....	2.31	....	9.98	....	4.21	....	51.18	....
Vanzant ....3¾ mi. SE	3.74	....	4.49	....	4.08	....	4.27	....	9.71	....	1.22	....	2.84	....	2.63	....	2.35	....	2.10	....	10.09	....	3.84	....	51.36	....
Waco	....	....	....	....	....	....	....	....	....	....	1.40	....	0.28	....	3.01	....	1.38	....	0.99	....	....	....	....	....	....	....
Warrensburg	3.53	+1.75	1.24	−0.64	2.07	−1.02	4.26	+0.60	3.66	−1.06	1.78	−3.28	3.09	−0.88	7.05	+3.08	2.25	−2.53	5.08	+2.06	2.93	+0.71	1.42	−0.12	38.36	−1.33
Warsaw ....(A)	2.29	+0.15	2.11	−0.13	1.60	−1.95	4.31	−0.15	3.49	−1.51	1.83	−3.47	1.23	−2.78	12.56	+7.94	2.81	−2.22	2.51	−1.29	6.72	+4.08	2.26	+0.14	43.72	−1.19
Warsaw ....(B)	2.41	....	§2.04	....	1.67	....	§4.57	....	§3.06	....	§1.80	....	§1.21	....	§13.03	....	2.68	....	§1.29	....	8.33	....	2.53	....	44.62	....
Wasola	4.73	....	5.02	....	1.65	....	3.96	....	7.52	....	1.29	....	3.21	....	2.00	....	0.96	....	3.67	....	13.89	....	4.07	....	51.97	....
Waverly	3.42	+1.88	0.66	−1.00	2.65	−0.11	3.01	−0.70	3.50	−1.11	5.97	+1.01	1.43	−2.95	§4.66	+0.97	3.89	−1.45	4.42	+1.12	§1.99	−0.29	§1.57	−0.01	§37.17	−2.64
Waynesville	*2.42*	....	*3.07*	....	*1.66*	....	*4.31*	....	7.40	....	1.63	....	2.83	....	§10.61	....	*2.17*	....	2.42	....	9.83	....	1.98	....	§50.33	....
Wilderness Lookout	4.07	....	4.02	....	1.90	....	3.46	....	8.32	....	2.96	....	1.15	....	1.03	....	1.50	....	1.94	....	13.35	....	3.25	....	46.95	....
Southeastern Division																										
Advance .....¼ mile W	3.49	−0.20	5.08	+1.32	1.71	−3.23	5.57	+0.40	7.46	+3.19	0.83	−3.47	5.90	+2.54	4.71	+0.90	1.22	−1.42	1.57	−1.04	6.79	+3.51	3.63	+0.73	47.96	+3.23
Alton.........10 mi. SE	4.31	....	5.31	....	3.75	....	5.01	....	7.61	....	1.99	....	1.98	....	6.22	....	3.58	....	1.40	....	7.28	....	3.94	....	52.38	....
Annapolis..... 7 mi. W	3.57	....	5.03	....	3.47	....	4.59	....	12.17	....	2.24	....	3.48	....	5.65	....	1.52	....	1.74	....	7.62	....	2.49	....	53.57	....
Arcadia	1.93	−1.06	3.37	+0.89	3.16	−0.89	3.75	−1.07	12.73	+8.49	2.04	−2.10	3.04	−1.08	4.89	+0.52	2.95	−1.03	1.25	−2.20	9.16	+6.04	2.45	−0.40	50.72	+6.11
Belleview	3.15	+0.85	4.28	+1.45	3.31	−0.48	3.26	−1.76	10.26	+5.15	2.05	−2.55	0.70	−2.63	3.90	+1.13	1.85	−2.19	0.88	−2.62	6.77	+3.34	2.87	+0.06	43.28	−0.25
Bernie	6.29	....	6.28	....	§2.99	....	4.82	....	10.64	....	1.29	....	2.59	....	4.23	....	2.99	....	2.04	....	6.73	....	4.36	....	§55.25	....
Birch Tree..... ½ mi. E	4.71	+1.53	3.98	+1.48	4.96	+0.98	4.43	−0.33	11.93	+7.58	§2.26	−2.15	*4.85*	+1.27	7.74	+2.98	*1.94*	−1.74	*2.19*	−1.09	*7.94*	+4.18	3.32	+0.57	§60.25	+15.86
Black.... .....9 mi NW	3.68	+0.98	4.26	+1.98	3.63	−0.26	5.07	+0.18	9.07	+4.56	1.26	−2.80	3.42	−0.27	5.11	+0.87	1.42	−2.44	1.25	−2.34	7.50	+4.78	3.12	+0.67	48.79	+5.91
Bloomfield	4.96	....	7.09	....	2.21	....	5.15	....	11.03	....	3.36	....	1.59	....	4.23	....	1.38	....	3.44	....	7.83	....	3.16	....	55.43	....
Bunker ...... 4 mi. NW	3.34	....	3.81	....	3.96	....	*4.19*	....	§9.93	....	0.60	....	4.90	....	8.10	....	1.82	....	0.67	....	9.53	....	3.61	....	§54.46	....
Campbell	4.99	−0.31	5.84	+2.51	3.17	−2.75	2.83	−1.43	7.84	+2.83	1.98	−2.26	1.58	−1.90	3.80	−2.18	1.29	−2.58	2.30	−0.80	7.37	+3.67	§4.20	+0.25	§47.19	−4.95
Cape Girardeau....(A)	3.18	−0.80	4.94	+2.54	1.75	−2.09	4.38	+0.50	8.81	+4.74	1.30	−3.00	3.97	+0.55	6.55	+2.65	1.45	−2.56	1.92	−1.38	5.49	+1.91	3.04	−0.63	46.78	+2.43
Cape Girardeau ....(B)	3.09	−0.89	5.32	+2.92	1.32	−2.52	2.86	−1.02	9.25	+5.18	1.01	−3.29	6.01	+2.59	6.81	+2.91	2.29	−1.72	1.69	−1.61	4.48	+0.90	2.33	−1.34	46.46	+2.11
Caruthersville.....(A)	6.76	+1.57	5.99	+2.61	4.76	+0.30	2.63	−1.89	4.55	+0.11	0.68	−3.13	6.47	+3.18	2.96	−0.73	1.77	−1.44	2.75	−0.61	5.92	+2.07	3.58	−0.96	48.82	+1.08
Caruthersville .....(B)	7.37	....	7.02	....	5.40	....	2.55	....	4.56	....	0.74	....	6.70	....	2.93	....	1.89	....	2.67	....	5.92	....	3.57	....	51.32	....
Centerville (1)	4.52	+1.87	§4.29	+1.09	3.99	+0.25	4.37	−0.85	13.35	+8.99	1.46	−3.73	3.03	+0.73	6.10	+3.65	1.45	−2.18	1.47	−2.23	7.10	+3.66	2.72	−0.05	§53.85	+11.20
Centerville (2)	3.98	....	3.91	....	3.87	....	4.13	....	12.99	....	1.79	....	2.89	....	5.52	....	1.16	....	1.28	....	6.93	....	2.67	....	51.12	....
Clearwater Dam	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	6.23	....	2.77	....	....	....
Cook Station	§2.33	....	3.21	....	3.01	....	3.29	....	5.75	....	2.11	....	1.66	....	6.41	....	1.64	....	2.23	....	10.01	....	2.65	....	§44.30	....
Crane Mountain	2.76	....	4.15	....	3.09	....	4.11	....	13.83	....	3.63	....	4.88	....	5.63	....	1.16	....	1.99	....	8.74	....	2.32	....	56.29	....
Crystal City	1.81	−0.48	3.66	+1.79	2.66	−0.02	2.94	−0.70	6.52	+2.36	1.29	−4.13	1.89	−1.32	4.99	+2.56	2.31	−1.07	1.60	−1.17	7.37	+3.95	1.35	−1.19	38.39	+0.58
Cuba	2.31	+0.06	2.71	+0.18	2.61	−0.82	3.59	−1.36	6.03	+1.44	1.58	−3.44	1.89	−0.41	7.40	+4.40	1.39	−2.34	2.18	−0.56	9.19	+6.16	2.34	+0.31	43.22	+3.62
Deering	6.35	....	4.64	....	3.79	....	2.75	....	4.90	....	1.17	....	1.93	....	3.34	....	1.53	....	3.03	....	6.13	....	3.74	....	43.30	....
De Soto	2.05	....	3.63	....	2.69	....	2.18	....	7.67	....	1.39	....	2.53	....	6.13	....	1.72	....	1.61	....	8.36	....	2.39	....	42.36	....
Dexter	5.28	+0.24	5.72	+2.64	3.85	−1.03	4.82	+0.23	10.79	+6.00	3.71	−0.70	0.99	−2.13	3.92	−0.20	1.27	−3.25	2.36	−1.90	7.75	+3.83	3.13	−0.86	53.59	+2.87
Doniphan (1)	4.06	−0.04	6.17	+2.86	3.69	−0.70	5.17	+0.24	8.07	+3.71	1.21	−3.15	4.47	+0.43	4.23	−0.01	1.89	−1.72	2.56	−0.50	6.57	+3.15	3.97	+0.25	52.06	+4.52
Doniphan (2)	4.23	....	6.79	....	4.19	....	3.10	....	8.62	....	1.03	....	3.73	....	5.74	....	2.36	....	1.97	....	7.21	....	3.11	....	52.14	....
East End	3.42	....	4.18	....	3.43	....	3.18	....	8.85	....	0.35	....	3.29	....	4.82	....	0.78	....	1.66	....	7.43	....	2.26	....	43.65	....
Eastwood Lookout	3.72	....	§3.38	....	2.91	....	*4.01*	....	*10.65*	....	1.08	....	2.52	....	4.25	....	*2.12*	....	2.00	....	8.34	....	3.71	....	§48.72	....
Ellington	4.81	....	4.59	....	3.74	....	4.22	....	12.85	....	2.13	....	1.00	....	8.98	....	3.25	....	1.45	....	6.55	....	2.53	....	56.10	....
Ellsinore Lookout	3.75	....	§7.33	....	3.53	....	4.60	....	*10.36*	....	1.04	....	1.17	....	5.07	....	*2.41*	....	3.06	....	6.12	....	§3.38	....	§51.82	....
Farmington	2.61	−0.53	4.61	+2.09	3.52	−0.40	3.67	−0.85	9.56	+4.49	1.40	−2.48	1.26	−2.30	7.76	+3.46	2.35	−1.45	0.71	−2.73	7.56	+4.74	2.32	−0.48	47.33	+3.56
Fisk	3.79	−1.22	4.42	+1.16	2.19	−2.63	4.15	+0.45	10.67	+7.17	2.62	−1.24	3.02	−0.36	3.37	+0.12	§2.79	−1.45	§4.44	+1.48	8.70	+6.04	3.12	−0.35	§53.28	+9.17
Fredericktown	2.09	−1.62	4.60	+1.97	1.99	−1.66	3.32	−1.16	12.00	+7.91	1.89	−2.34	1.16	−2.06	7.45	+3.19	2.31	−1.65	1.78	−2.61	6.32	+3.00	2.25	−0.92	47.16	+2.05
Gerald	2.31	....	*1.96*	....	§2.46	....	4.30	....	4.35	....	1.28	....	1.06	....	5.82	....	1.44	....	4.63	....	9.58	....	2.03	....	§41.22	....
Greenville (1)	3.45	+0.13	5.31	+2.59	1.94	−2.32	6.25	+1.55	11.45	+7.27	*2.33*	−2.36	*4.89*	+1.13	*4.76*	+0.48	*1.74*	−1.58	*2.51*	−0.77	6.93	+3.57	2.94	−0.42	§54.50	+9.27
Greenville (2)	3.36	....	5.90	....	2.35	....	5.05	....	13.50	....	2.33	....	4.89	....	4.76	....	1.74	....	2.51	....	6.47	....	3.04	....	55.90	....
High Lookout	4.33	....	§1.56	....	3.78	....	4.61	....	11.15	....	*1.73*	....	*3.98*	....	8.56	....	2.00	....	2.45	....	7.87	....	3.77	....	§58.77	....
Jackson	4.26	+0.32	5.00	+2.12	1.64	−2.53	4.89	+0.55	8.69	+4.42	1.48	−3.21	3.03	−0.51	5.42	+1.34	1.60	−2.42	2.69	−0.83	5.96	+2.58	2.87	−0.56	47.53	+1.27
Jefferson Barracks	1.61	−0.65	3.04	+0.41	3.06	+0.22	2.07	−1.13	6.18	+1.83	3.68	−1.04	1.96	−2.33	17.28	¶13.68	1.46	−1.41	2.57	−0.54	*9.06*	+5.57	*2.24*	+0.07	§54.21	+14.68
Jerome	2.64	+0.66	3.68	+1.36	§2.67	−0.18	2.74	−1.09	§9.80	+5.49	§1.85	−1.90	4.36	+1.06	7.64	+3.36	3.22	−0.37	1.30	−0.72	9.94	+7.47	2.96	+1.13	§52.80	+16.27
Koshkonong	4.83	+1.21	6.94	+4.08	4.14	+0.04	4.60	−0.42	12.54	+7.99	2.06	−2.44	3.36	−0.41	1.88	−2.28	1.32	−2.32	1.74	−1.48	8.25	+4.99	3.95	+0.47	55.61	+9.43
Leeper	*4.22*	+0.32	*4.84*	+2.19	*3.11*	−0.53	3.07	−1.85	10.10	+5.70	1.00	−4.44	3.75	+0.43	5.86	+1.75	3.12	−0.11	2.72	−1.19	6.70	+3.32	3.23	−0.55	§51.72	+5.04
Licking (1)	2.22	+0.23	*4.32*	+1.91	3.07	−0.06	4.84	+0.16	7.92	+2.79	0.82	−3.74	2.76	+0.19	13.18	¶10.84	2.22	−2.32	1.34	−1.97	10.17	+7.53	2.77	+0.39	§55.63	+15.97
Licking (2)	3.06	....	4.32	+1.91	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Macedonia Lookout	3.74	....	4.88	....	3.47	....	3.89	....	9.08	....	1.09	....	3.81	....	7.39	....	2.12	....	2.46	....	6.07	....	3.53	....	51.53	....
Marble Hill	1.73	−2.14	§2.90	−0.18	1.05	−3.23	5.78	+1.22	10.23	+5.74	3.54	−0.94	5.50	+1.48	7.04	+2.92	2.75	−1.13	2.48	−0.94	4.68	+1.13	1.71	−1.96	§49.39	+2.04
Morehouse	4.21	−0.67	5.57	+1.83	2.19	−2.72	5.66	+0.81	11.14	+6.86	0.79	−3.44	5.63	+2.62	3.47	−0.44	1.46	−2.46	1.94	−1.59	6.47	+2.84	3.10	−1.12	51.66	+2.52
Moselle	1.93	....	2.63	....	2.01	....	3.66	....	4.78	....	1.35	....	0.65	....	5.14	....	2.07	....	1.31	....	9.52	....	*1.82*	....	§36.87	....

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Monthly and Annual Mean Temperatures for the Year 1946, with Departures from Normal

Stations	January		February		March		April		May		June		July		August		September		October		November		December		Annual	
	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure
Northern Division																										
Albany	29.6	......	37.1	......	53.4[a]	......	56.2[c]	......	58.4	......	71.5[a]	......	75.2[a]	......	71.1	......	65.2	......	58.0[b]	......	43.1[b]	......	33.4[e]	......	54.4	......
Amity	*29.5*	......	*38.2*	......	53.1	......	57.2	......	59.6	......	73.8	......	77.4	......	73.8	......	67.0	......	59.6	......	42.9	......	35.7	......	55.6	......
Bethany	28.6	+3.8	35.8	+8.3	52.2	+11.9	55.9	+4.4	58.4	-4.1	72.4	+0.4	76.0	-0.3	72.0	-3.0	65.3	-1.8	58.1[d]	+3.3	42.6	-0.2	34.9	+4.8	54.4	+2.3
Brookfield	29.1	......	37.2[b]	......	53.5	......	57.6	......	61.0	......	73.8	......	79.0	......	73.3	......	68.4	......	60.6	......	43.4	......	35.5	......	56.0	......
Brunswick	30.2	+3.5	37.4	+7.6	53.8	+11.9	57.4	+3.2	60.0	-4.2	73.8	+0.8	78.6	+2.5	73.3	-0.9	67.4	+0.4	60.0	+4.7	44.3	+2.7	36.4	+5.8	56.0	+3.1
Canton, Lock & Dam No. 20	30.0	......	35.4	......	51.6	......	56.2	......	59.2	......	72.4	......	76.0	......	71.6	......	68.1	......	60.6	......	46.0	......	37.3	......	55.4	......
Carrollton	....	......	....	......	....	......	....	......	....	......	....	......	....	......	....	......	....	......	61.0	......	43.9	......	37.4	......	....	......
Chillicothe	29.6	+5.2	36.7	+4.4	53.1	+11.4	56.6	+4.6	59.1	-3.8	73.4	+1.1	78.6	+1.6	72.4	-3.1	65.8	-1.7	59.0	+4.0	42.8	+1.5	34.8	+4.9	55.2	+2.6
Chillicothe.... 2 mi ESE(C)	....	......	....	......	....	......	....	......	....	......	....	......	77.0	......	71.9	......	....	......	....	......	....	......	....	......	....	......
Clifton Hill	32.2	+4.1	37.8	+7.6	55.2[e]	+13.0	58.9[d]	+5.4	....	......	....	......	....	......	....	......	....	......	....	......	....	......	....	......	....	......
Columbia	32.8	+1.9	40.2	+7.8	56.0	+13.1	59.5	+4.7	61.4	-3.6	74.6	+1.2	80.4	+3.1	74.0	-2.3	68.9	-0.5	62.0	+5.1	46.8	+2.7	39.0	+5.0	58.0	+3.2
Conception	28.4	+3.7	37.6	+9.4	53.4	+13.6	57.4	+5.2	58.8	-3.3	73.8	+2.3	77.6	+1.0	73.3	-1.4	66.9	-0.3	59.2	+3.8	42.7	+1.3	35.1	+5.9	55.4	+3.5
Edgerton	32.1	+5.2	41.0	+6.7	55.4	+12.2	57.6	+3.8	59.6	-3.4	74.5	+2.6	77.5	+1.4	74.8	-0.3	*67.8*	-0.1	*60.6*	+4.3	*44.8*	+3.0	*37.2*	+6.8	56.9§	+3.5
Elsberry	30.8	-0.8	37.0	+3.2	54.8	+11.3	56.8	+3.2	60.2	-4.5	72.7	-1.7	76.5	-2.9	70.6	-5.9	66.4	-2.9	59.4	+1.9	45.2	+1.8	36.6	+2.2	55.6	+0.4
Fayette	32.0	+5.0	39.5	+8.9	55.2	+13.3	58.2	+4.0	60.6	-3.2	72.8	0.0	77.8	+0.6	73.2	-2.7	67.2	-0.9	60.3	+3.9	45.0	+2.8	38.2	+7.1	56.7	+3.3
Fulton	31.7	+2.2	38.4	+5.3	55.0	+10.9	58.4	+3.8	60.8	-3.8	74.0	+0.8	78.9	+1.2	72.4	-4.0	66.7	-2.2	60.2	+2.8	45.2	+1.0	38.0	+4.5	56.6	+1.8
Grant City	27.9[a]	+3.1	36.0	+7.4	51.9	+10.6	55.8	+3.6	57.8	-4.2	72.0	+1.2	76.6	+0.4	72.4	-2.5	65.6	-1.4	59.8	+4.7	41.6	-0.3	33.8	+5.8	54.3	+2.4
Hannibal	30.2	+3.1	35.7	+6.0	53.7	+12.7	57.2	+3.8	59.8	-3.8	72.9	+0.4	77.4	+0.6	70.9	-4.1	67.2	-0.5	60.6	+4.6	44.6	+2.5	36.4	+4.9	55.6	+2.6
Kansas City Airport	33.0	+4.8	41.8	+10.6	55.6	+12.9	60.5	+5.7	62.2	-2.6	76.2	+2.6	81.2	+3.1	77.0	+0.4	69.3	+0.4	62.2	+4.5	46.4	+2.7	38.6	+6.1	58.7	+4.3
Kansas City University	34.5	......	43.6	......	57.6	......	62.5	......	62.8	......	78.1	......	82.1[a]	......	77.0	......	68.4	......	61.6	......	46.4	......	39.6	......	59.5	......
Kidder	28.9	+2.9	37.2	+8.8	52.2	+11.4	56.0	+3.8	58.2	-4.4	72.0	+0.2	76.5	-0.1	72.4	-3.0	66.1	-1.2	59.2	+3.4	43.4	+1.6	36.2	+7.0	54.9	+2.6
Kirksville	29.4	+4.6	35.4	+8.3	52.9	+13.2	56.2	+4.3	59.3	-3.0	72.6	+0.9	77.2	+1.2	70.9	-3.1	66.2	-0.1	59.2	+4.5	43.4	+2.8	36.0	+6.4	54.9	+3.3
Knoxville	29.8	......	38.4	......	53.0	......	57.0	......	59.2	......	73.4[c]	......	....	......	....	......	....	......	....	......	....	......	....	......	....	......
Lawson	31.4	......	39.0	......	53.6	......	....	......	....	......	....	......	....	......	76.1	......	....	......	....	......	....	......	....	......	....	......
Louisiana	32.4	+4.3	38.3	+7.4	55.6	+12.1	57.4	+3.4	61.3	-2.4	72.9	+0.8	77.7	+1.3	71.8	-3.1	66.8	-1.2	60.4	+4.2	46.4	+2.3	38.8	+7.0	56.6	+3.0
Macon	28.6	+1.1	34.8	+5.2	52.2	+10.0	56.2	+3.1	59.6	-3.9	72.9	+0.5	77.8	+0.6	72.3	-3.8	66.6	-1.3	58.9	+2.6	43.4	+0.6	34.7	+4.6	54.8	+1.6
Maryville	28.0	+5.1	36.6	+10.8	52.0	+14.1	56.4	+5.6	58.1	-3.2	72.8	+3.0	76.6	+0.9	72.4	-1.4	65.2	-0.4	57.9	+4.4	41.5	+2.1	34.0	+7.2	54.3	+4.0
Memphis	26.6	......	32.8	......	50.4	......	54.6	......	58.1	......	72.2	......	76.4	......	69.8	......	66.0	......	59.1	......	41.6	......	32.9	......	53.4	......
Mexico	30.3	+2.3	36.4	+6.3	54.3	+12.3	57.2	+3.4	60.2	-3.8	72.8	-0.4	77.8	+0.5	71.6	-4.4	66.9	-1.6	60.3	+4.0	44.3	+1.4	36.5[a]	+4.7	55.7	+2.0
Moberly.........3½ mi. NE	30.8	+2.8	36.6	+3.7	53.6	+10.0	57.6[a]	+3.9	60.1[b]	......	72.6	-5.0	77.8	-0.3	72.2	-3.5	66.8	-0.3	*60.0*	+3.3	*44.6*	+2.7	*37.1*	+5.6	55.8§	......
New Florence.... 1 mile SE	31.2	......	37.5	......	53.9	......	57.2	......	59.6	......	72.0	......	77.3	......	71.4	......	66.0	......	59.2	......	44.6	......	37.4	......	55.6	......
Oregon	29.8	+5.7	39.7	+10.9	53.4	+13.8	58.4	+5.7	59.4	-3.8	73.8[d]	+1.6	78.1	+2.5	73.7	-1.5	66.6	-0.5	59.8	+4.7	43.3	+2.8	36.2	+7.5	56.0	+4.1
Polo	....	......	....	......	....	......	....	......	....	......	....	......	78.4	......	73.7	......	66.0	......	59.2	......	42.9	......	35.2	......	....	......
St. Charles	33.0	+2.0	39.0	+5.7	55.0	+10.5	59.2	+3.6	....	......	....	......	....	......	....	......	....	......	....	......	....	......	....	......	....	......
St. Joseph	30.0	+4.5	40.2	+10.6	54.0	+13.5	58.8	+5.3	60.5	-3.7	75.1	+1.4	79.2	+1.8	75.0	-1.5	67.9	-0.5	60.4	+4.4	44.5	+3.0	36.6	+7.0	56.8	+3.8
Salisbury	....	......	....	......	....	......	....	......	....	......	....	......	....	......	73.2	......	67.5	......	60.8	......	45.6	......	38.4	......	....	......
Saverton, Lock & Dam 22	32.1	......	36.9	......	54.8	......	57.9	......	61.0	......	74.0	......	78.0	......	71.8	......	68.0	......	60.6	......	46.1	......	38.9	......	56.7	......
Shelbina	30.3	......	36.5[a]	......	54.0	......	57.6[a]	......	60.6[a]	......	72.6	......	77.6[a]	......	72.0	......	67.8	......	60.2	......	44.7	......	36.6	......	55.9	......
Steffenville	30.4	+3.0	36.2	+6.5	54.0	+11.8	56.2	+3.1	59.6	-4.2	72.7	+0.1	78.2	+0.4	71.5	-5.0	67.2	-1.8	59.6	+2.2	44.3	+0.8	36.7	+6.1	55.6	+2.0
Tarkio	26.6	+3.7	36.0	+7.0	50.2	+10.1	55.6	+3.4	57.7	-4.9	72.4	+0.6	75.2	-1.6	71.6	-3.6	64.4	-1.9	56.6	+1.8	41.0	+0.9	32.2	+5.8	53.3	+1.8
Trenton	30.8	+4.5	38.4	+9.0	54.3	+13.2	57.6	+4.9	60.2	-3.3	73.8	+1.6	77.8	+1.0	73.8	-1.4	67.6	+0.4	60.4	+4.5	43.8	+1.6	36.3	+6.7	56.2	+3.5
Unionville	26.0	+2.5	32.4	+5.7	50.0	+11.1	55.0	+4.0	57.5	-4.6	70.8	-0.5	74.9	-1.6	69.5	-5.3	64.6	-2.5	57.6	+2.4	40.8	+0.5	32.3	+4.7	52.6	+1.4
Vandalia	34.0	......	38.8	......	54.8	......	57.1[a]	......	60.6	......	72.8	......	77.5	......	72.0	......	69.8	......	60.0	......	45.6	......	38.2	......	56.8	......
Warrenton	33.1	+3.9	40.4	+9.5	55.2	+12.7	58.4	+3.6	61.0	-3.9	73.0	-0.4	77.5	-0.3	71.7	-4.8	67.2	-1.8	61.4	+5.4	46.4	+3.2	40.0	+7.6	57.1	+2.9
Keokuk, Iowa	28.8	+3.9	34.8	+6.5	53.0	+14.1	56.0	+3.7	59.8	-4.0	73.1	+0.6	78.0	+1.1	70.9	-4.1	67.2	-0.3	61.2	+5.8	44.8	+3.7	36.8	+7.2	55.4	+3.2
Division means	**30.4**	**+3.5**	**37.5**	**+7.4**	**53.7**	**+12.2**	**57.3**	**+4.1**	**59.8**	**-3.8**	**73.2**	**+0.6**	**77.7**	**+0.7**	**72.6**	**-2.9**	**66.9**	**-1.0**	**59.9**	**+3.9**	**44.1**	**+1.8**	**36.4**	**+5.9**	**55.8**	**+2.7**
Southwestern Division																										
Anderson......1½ miles SW	33.6	-2.3	40.4	+4.7	53.1	+4.3	60.6	+3.9	60.4[a]	-5.3	71.3[a]	-1.4	76.6	-0.7	77.0	-0.7	68.5	-2.5	59.4[b]	+0.7	46.5[a]	-2.8	42.2	+4.7	57.5	+0.3
Appleton City	34.3	+3.0	42.2	+8.3	55.3	+10.2	60.0	+3.9	61.5	-3.5	73.7	-0.7	80.2	+2.0	76.2	-1.6	68.6	-1.8	61.8	+2.9	46.0	0.0	41.0	+6.4	58.4	+2.4
Bolivar	35.8	+1.9	43.4	+8.2	56.0	+9.7	61.6	+5.3	62.0	-2.8	74.2	+1.4	80.6	+3.3	76.7	-0.2	69.6	-0.3	63.8	+5.2	48.0	+1.2	43.2	+7.6	59.6	+3.4
Boonville	30.7	......	37.4	......	54.2	......	57.8	......	59.9	......	72.8	......	77.6	......	73.2	......	67.5	......	60.6	......	44.4	......	39.0	......	56.3	......
Butler	*33.8*	......	*41.3*	......	*54.4*	......	59.0[e]	......	61.6	......	75.7[e]	......	81.3	......	76.1	......	67.2	......	61.4	......	46.0	......	40.8	......	58.2§	......
Camdenton	*34.7*	......	*41.8*	......	*55.8*	......	*60.2*	......	62.8	......	75.2[a]	......	81.4	......	76.1	......	69.5	......	64.5	......	49.6[a]	......	44.5[a]	......	59.7§	......
Carthage	36.8	......	45.1	......	55.6	......	61.8	......	62.4	......	74.1	......	81.0	......	80.2	......	71.2	......	63.3	......	48.2	......	43.4	......	60.3	......
Clinton	33.4	+1.7	41.4	+7.8	56.3	+11.3	60.2	+3.9	62.3	-3.1	74.6	+0.8	80.2	+1.9	76.2	-1.4	68.2	-2.6	61.7	+2.8	46.0	-1.0	39.2	+4.5	58.3	+2.0
Eldon	35.0	+3.9	42.6	+9.5	56.6[a]	+13.0	60.7	+5.3	62.0	-2.2	73.8	+0.8	79.0	+1.8	73.6	-2.8	67.6	-1.8	62.2	+4.8	47.5	+2.7	42.6[a]	+8.3	58.6	+3.6
Fort Leonard Wood	34.6	......	42.6	......	56.8[f]	......	58.9[h]	......	....	......	....	......	....	......	....	......	....	......	....	......	....	......	....	......	....	......
Harrisonville	31.8	+4.5	39.1	+8.4	53.2	+11.9	58.1	+4.2	59.7	-4.1	73.2	+0.1	79.1	+1.4	74.6	-1.3	66.8	-1.7	60.6	+4.5	44.2	+1.7	38.0	+6.7	56.5	+3.0
Jefferson City	34.0	+4.2	40.9	+8.8	55.8	+12.2	58.8	+2.8	61.2	-3.5	72.6	-1.2	78.7	+0.6	73.7	-3.0	67.8	-1.5	61.0	+4.2	46.9	+2.8	40.6	+7.7	57.7	+2.9
Joplin	37.4	+2.5	46.1	+10.3	57.3	+8.7	64.0	+5.5	63.6	-2.7	74.9	+1.5	83.5	+5.4	80.4	+3.1	72.2	+0.1	65.0	+4.8	49.8	+1.5	44.6	+5.4	61.6	+3.9
Lakeside	34.4	+1.4	40.6	+6.6	54.5	+9.9	60.2	+4.8	62.0	-4.1	74.6	-0.4	79.0	-1.5	74.2	-4.9	67.6	-3.4	61.5	+1.7	47.8	+3.3	40.9	+3.6	58.1	+1.4
Lamar	34.4	+2.3	42.2	+6.9	54.8	+8.8	59.8	+3.2	61.0	-4.6	73.5	-0.7	80.0	+1.6	76.8	-0.9	69.0	-1.8	62.1	+3.2	46.4	+0.1	41.5	+6.3	58.5	+2.1
Lebanon	35.3	+2.8	43.4	+9.0	56.2	+11.2	59.3	+3.8	60.4	-4.5	72.8	+0.1	79.6	+2.7	73.0	-3.1	66.4	-3.0	62.6	+4.9	47.8	+2.2	43.1	+8.3	58.3	+2.8
Lexington	32.3	+4.5	42.8	+11.8	55.9	+12.5	59.8	+5.2	62.0	-2.4	75.4	+2.5	81.8	+4.4	77.2	+1.0	*69.0*	+0.2	*61.6*	+4.1	46.9	+2.7	38.0	+6.0	58.6§	+4.4
Lockwood	36.8	+3.5	45.0	+8.0	56.6	+9.3	61.6	+5.1	63.5	-0.9	75.2	+1.6	81.4	+3.8	78.4	+1.2	70.8	-0.1	64.9	+6.2	49.3	+2.3	44.2	+8.1	60.6	+4.0
Marshall	35.3	+7.4	41.7	+10.8	56.6	+13.6	59.8	+5.0	61.7	-2.5	75.2	+2.0	79.8	+2.3	74.4	-1.6	68.0	-0.8	61.4	+4.8	46.2	+1.0	39.4	+7.5	58.3	+4.1
Mountain Grove	35.8	+3.0	43.4	+8.3	55.0	+9.6	61.2	+6.3	61.5	-2.3	72.5	+0.7	79.4	+3.0	74.1	-1.4	67.9	-1.0	62.0	+4.4	48.4	+2.5	43.0	+8.3	58.7	+3.5
Mount Vernon	34.7	+1.4	42.2	+7.7	54.3	+8.4	60.2	+4.1	61.0	-4.8	75.0	+1.7	81.0	+3.3	77.8	+1.1	71.3	+0.8	63.8	+5.2	49.3	+3.5	45.2	+9.7	59.6	+3.5
Neosho	37.6	+2.5	45.1	+7.5	56.4	+8.3	63.4	+5.1	63.0	-3.0	73.8	0.0	80.0	+2.5	78.8	+1.7	70.6	+0.1	63.1	+3.9	49.2	+1.9	45.4	+8.3	60.5	+3.2
Nevada	36.4	+4.5	44.3	+10.4	56.4[a]	+11.5	62.5	+6.8	63.1	-1.4	75.1	+1.6	82.8	+3.2	79.1	+2.0	71.6	+2.1	63.7	+6.1	47.6	+2.8	43.4	+8.1	60.5	+4.8
Ozark Beach	35.8	......	42.8	......	54.8	......	62.0	......	64.2	......	74.3	......	80.4	......	77.9	......	71.1	......	62.2	......	49.1	......	43.6	......	59.8	......
Sedalia	34.0	+7.6	41.6	+11.2	56.8	+14.0	60.0	+4.7	61.6	-3.7	74.7	+0.5	80.8	+3.3	75.9	-0.6	69.3	+0.1	62.7	+5.0	47.0	+3.7	41.0	+7.1	58.8	+4.4
Seligman	37.0	+1.9	45.0	+7.5	56.9[a]	+10.3	62.1[a]	+5.5	61.2	-3.3	72.4	0.0	78.6	+1.9	77.7	+1.5	69.8	+0.2	62.6	+3.6	48.8	+1.5	45.2	+7.9	59.8	+3.2
Seymour...... 3½ miles NE	32.6	-1.4	39.8	+4.8	52.0	+6.6	57.3	+1.6	59.0	-4.7	70.6	-1.1	77.2	+1.7	72.4	-2.6	66.0	-2.8	60.2	+2.8	45.8	-0.1	39.2	+3.8	56.0	+0.7
Springfield.....4 miles NW	34.6	+2.3	42.2	+8.2	54.8	+11.2	60.6	+5.4	60.8	-2.9	72.8	+1.1	79.0	+2.8	75.3	+0.2	68.4	0.0	61.6	+4.0	46.6	+1.6	41.0	+5.5	58.1	+3.2
Sweet Springs	33.3	......	41.0[a]	......	55.8	......	59.2	......	61.4	......	74.4	......	79.3	......	75.1	......	68.4[a]	......	61.2	......	46.2	......	39.3	......	57.9	......
Warrensburg	33.8	+5.1	42.6	+10.1	57.0	+13.0	60.7[c]	+4.6	61.4	-3.6	75.2[a]	+1.3	81.6	+2.8	77.4[b]	+0.3	70.4[h]	+0.2	62.9	+4.9	46.4[c]	+1.4	40.4[c]	+7.0	59.2	+4.0
Warsaw	35.6	+2.7	42.8	+7.2	57.5	+10.5	61.5	+4.8	63.2	-2.3	75.2	+1.4	81.8	+3.5	77.4	-0.2	69.7	-0.8	62.8	+3.8	47.8	+0.6	42.2	+6.5	59.8	+3.2
Wasola	36.3	......	45.2	......	56.8	......	62.6	......	62.2	......	73.4	......	79.6	......	75.2	......	69.4	......	63.5	......	52.8	......	45.4	......	60.2	......
Waynesville	*34.5*	......	*42.5*	......	*56.2*	......	*59.4*	......	60.8[c]	......	72.8	......	79.4[c]	......	*73.1*	......	*66.8*	......	60.6[a]	......	46.8	......	41.3	......	57.8§	......
Division means	**34.8**	**+2.9**	**42.5**	**+8.4**	**55.6**	**+10.4**	**60.5**	**+4.6**	**61.7**	**-3.3**	**73.9**	**+0.6**	**80.1**	**+2.4**	**76.0**	**-0.6**	**69.0**	**-0.9**	**62.3**	**+4.1**	**47.5**	**+1.5**	**41.9**	**+6.8**	**53.8**	**+3.1**
Southeastern Division																										
Advance .... ¼ mile W	36.3	......	41.8	+3.0	55.7	+7.7	59.5	+2.0	62.7	-3.1	74.4	-0.7	79.0	+0.8	73.0	-4.3	67.8	-2.0	59.5	+0.3	49.7	+3.6	42.0	+5.5	58.4	+1.2
Arcadia	34.0	+2.1	40.2	+6.1	54.0	+9.4	58.7	+3.4	59.6	-4.5	72.5	+0.7	75.1	-0.7	70.2	-4.1	64.4	-3.2	58.2	+2.2	47.4	+3.5	39.2	+4.9	56.1	+1.6
Birch Tree........ ½ mile E	35.6	+1.1	41.0[d]	+4.7	55.4	+8.1	59.7[f]	+2.6	58.8[l]	-6.2	*73.2*	+0.5	*78.4*	+1.8	*73.2*	-2.9	*66.8*	-3.0	*59.9*	+1.5	*48.0*	+1.4	43.0	+6.6	57.8§	+1.4
Black.............9 mi. NW	34.4	+1.8	40.2	+5.9	53.8	+8.8	58.7	+3.7	60.2	-3.8	70.8	-1.1	75.9	+0.3	69.6[c]	-4.9	64.0	-3.8	57.6	+1.7	46.4	+1.7	39.8	+5.0	56.0	+1.3
Campbell	39.4	+1.7	44.6	+2.5	57.6	+9.6	62.0	+3.3	64.6	-2.7	74.2[a]	-1.3	80.0[b]	-0.4	75.9[h]	-1.3	70.0[d]	-1.6	62.5[i]	+2.4	52.6	+5.0	44.8	+6.4	60.7	+2.0
Cape Girardeau	37.6	......	43.8	......	58.8	......	62.6	......	65.5	......	77.0	......	79.8	......	75.2	......	70.8	......	63.9	......	52.0	......	43.7	......	60.9	......
Caruthersville	40.7	+1.6	46.4	+5.9	58.8	+7.4	64.4	+4.2	66.1	-3.7	76.4	-2.0	79.4	-1.9	75.4	-4.9	71.2	-3.3	63.0	+0.8	55.0	+4.6	47.8	+6.9	62.0	+1.3
Clearwater Dam	....	......	....	......	....	......	....	......	....	......	....	......	....	......	....	......	....	......	....	......	50.0	......	43.1	......	....	......
Crystal City	36.8	+5.4	43.2	+8.0	57.8	+12.6	61.6	+6.6	63.2	-2.0	75.6	+1.3	79.9	+0.3	73.5	-4.7	68.0	-0.9	61.4	+3.0	49.0	+5.1	42.6	+8.2	59.4	+3.6
Doniphan	38.1	+2.3	44.2	+4.9	57.8	+8.8	63.0	+4.5	64.7	-1.8	75.6	+0.6	80.6	+2.0	76.2	-1.4	68.5	-2.7	60.4	+1.9	51.2	+3.9	43.2	+5.4	60.3	+2.4
Farmington	35.9	+3.3	42.0	+5.1	55.9	+9.4	59.7	+2.8	61.1	-2.6	73.0	+0.2	77.5	+1.2	71.7	-3.7	66.0	-3.6	60.1	+3.3	48.5	+3.7	42.1	+5.4	57.8	+2.0

Continued on next page

Monthly and Annual Mean Temperatures for the Year 1946, with Departures from Normal—Continued from preceding page

Stations	January		February		March		April		May		June		July		August		September		October		November		December		Annual	
	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure
Southeastern Div.-Concluded																										
Greenville	37.8	+ 2.8	42.2[c]	+ 6.4	56.9[g]	+ 9.2	60.6[f]	+ 4.0	62.4[b]	− 3.5	*74.4*	+ 0.8	*78.0*	+ 0.6	*73.0*	− 3.7	67.7	− 3.1	*60.2*	+ 2.6	49.6	+ 4.2	42.8	+ 6.6	58.8§	+ 2.2
Jackson	36.3	+ 2.5	42.4[b]	+ 5.9	57.2	+10.0	61.2	+ 4.1	63.6	− 2.0	76.0	+ 1.9	79.2	+ 1.6	74.2	− 1.9	69.6	− 0.5	61.0	+ 3.1	50.4	+ 3.8	43.0	+ 6.4	59.5	+ 2.9
Koshkonong	38.0	+ 1.5	45.4	+ 6.3	57.2	+ 7.8	63.0	+ 4.5	63.6	− 3.0	74.0	− 0.4	78.6	− 0.2	73.8	− 4.1	67.8	− 3.6	59.5	− 0.1	48.0	− 1.0	42.0	+ 3.6	59.2	+ 0.9
Licking	35.0	+ 1.9	*42.5*	+ 4.6	55.0[d]	+ 7.9	59.5	+ 2.8	59.9	− 4.5	71.6	− 1.4	77.6	+ 0.4	71.8	− 4.9	65.2	− 3.8	59.6	+ 0.8	47.3	+ 2.0	42.1	+ 5.7	57.3§	+ 1.0
Marble Hill	36.5	+ 1.9	42.4	+ 5.8	57.3	+ 9.7	61.6	+ 4.4	63.1	− 2.5	75.2	+ 1.2	78.7	+ 0.9	74.1	− 2.9	69.0	− 1.7	60.9	+ 2.7	50.5	+ 5.3	42.6	+ 5.9	59.3	+ 2.5
Poplar Bluff	37.9	+ 1.9	43.3	+ 5.2	57.6	+ 9.0	63.1	+ 3.6	65.4	− 2.1	75.6	+ 0.2	80.0	+ 0.8	75.7	− 2.3	70.2	− 1.5	61.2	+ 1.1	52.3	+ 4.6	44.5	+ 6.7	60.6	+ 2.3
Rolla	33.5	+ 1.6	41.4	+ 5.1	55.6	+10.1	59.9	+ 4.0	61.5	− 3.0	73.4	+ 0.4	79.0	+ 1.3	72.2	− 4.0	66.0	− 2.7	61.2	+ 4.7	47.1	+ 2.1	40.2	+ 5.6	57.6	+ 2.1
St. Louis																										
City Office	34.6	+ 3.5	40.6	+ 5.8	57.2	+13.1	61.1	+ 5.0	62.5	− 4.5	76.3	+ 1.3	80.6	+ 1.8	73.6	− 3.9	70.0	− 0.5	63.3	+ 4.5	49.0	+ 3.6	41.0	+ 6.1	59.2	+ 3.0
St. Louis Airport	33.8	+ 4.0	40.0	+ 6.0	56.3	+13.3	60.0	+ 5.2	62.0	− 3.8	75.8	+ 1.8	76.6	− 1.2	72.7	− 3.7	68.6	− 0.2	61.7	+ 4.4	47.5	+ 3.6	39.8	+ 6.4	57.9	+ 3.0
St. Louis University	34.1	+ 2.1	40.8	+ 5.9	57.3	+13.1	61.0	+ 5.3	62.8	− 2.9	76.2	+ 1.0	80.4	− 0.1	73.4	− 4.4	70.0	− 0.9	63.0	+ 4.4	49.0	+ 3.3	40.6	+ 5.5	59.0	+ 2.6
Washington University	32.3	......	39.3	......	56.6	......	59.4	......	62.3	......	75.4	......	79.6	......	72.5	......	68.4	......	61.3	......	47.5	......	39.0	......	57.9	......
Salem	34.8	+ 2.2	42.0	+ 6.2	55.7	+ 9.3	58.6	+ 2.6	61.0	− 3.5	73.8	+ 1.4	79.0	+ 2.2	72.0	− 3.9	66.6	− 2.6	60.8	+ 3.2	47.7	+ 1.6	41.8	+ 6.4	57.8	+ 2.1
Sikeston	37.3	+ 0.3	42.8	+ 5.6	57.8	+ 9.2	62.4	+ 4.3	64.7	− 3.8	76.8	+ 2.5	79.8	+ 1.2	74.3	− 3.3	68.8	− 2.3	61.7	+ 2.4	51.2	+ 4.0	42.8	+ 5.1	60.[illegible]	+ 2.1
Union .... 1½ miles SE	34.2	......	41.5	......	56.2	......	59.5	......	62.0	.....	74.0	......	79.0	+ 0.8	73.2	......	66.8	− 2.3	60.6	+ 1.1	46.8	+ 0.7	41.0	+ 5.5	57.9	......
Vichy .... 2 miles NW	33.2	......	40.5	......	55.3	......	60.0	......	60.6	......	73.8	......	79.3	......	72.8	......	67.1	......	61.2	......	46.6	......	39.6	......	57.5	......
Wappapello Dam	37.2	......	43.0	......	57.8	......	62.7	......	64.2	......	75.6	......	79.5	......	74.8	......	69.6	......	62.0	......	52.6[c]	......	42.0§	......	60.1§	......
Webster Groves	*33.0*	......	*39.7*	......	*56.4*	......	*57.2*	......	62.2§	......	72.9	......	77.8	......	71.5	......	66.4	......	60.0	......	47.6	......	40.4	......	57.1§	......
Weingarten	36.0	......	42.5	......	56.4	......	60.4	......	61.5	......	74.2	......	79.1	......	72.6	......	68.0	......	62.2	......	47.5	......	41.6	......	58.5	......
West Plains	35.4	+ 1.4	41.1	+ 2.5	54.0	+ 6.9	59.6	+ 2.6	61.0	− 3.6	72.6	− 0.8	78.4	+ 0.7	73.6	− 3.4	66.6	− 2.4	59.2	+ 0.3	48.4	+ 3.1	41.8	+ 5.3	57.6	+ 1.0
Willow Springs....500 ft. E	36.0	......	42.6	......	55.0	......	61.4	......	61.4	......	72.6	......	77.6	......	73.4	......	66.4	......	60.0	......	48.0	......	42.4	......	58.1	......
Cairo, Ill	38.6	+ 3.7	44.4	+ 5.9	59.1	+11.4	63.5	+ 4.4	65.7	− 3.7	78.0	+ 0.7	80.3	− 0.3	75.3	− 3.5	71.8	− 0.7	63.8	+ 3.3	52.3	+ 5.0	44.6	+ 6.8	61.4	+ 2.7
....	....	......	....	......	....	......	....	......	....	......	....	......	....	......	....	......	....	......	....	......	....	......	....	......	....	......
Division means	**36.2**	**+ 2.3**	**42.3**	**+ 5.3**	**56.6**	**+ 9.6**	**61.0**	**+ 3.9**	**62.6**	**− 3.3**	**74.6**	**+ 0.4**	**78.8**	**+ 0.5**	**73.4**	**− 3.6**	**68.0**	**− 2.1**	**61.1**	**+ 2.3**	**49.4**	**+ 3.3**	**42.2**	**+ 5.9**	**58.8**	**+ 2.0**
State means	**33.8**	**+ 2.9**	**40.8**	**+ 7.4**	**55.3**	**+11.1**	**59.6**	**+ 4.3**	**61.4**	**− 3.1**	**73.9**	**+ 0.3**	**78.9**	**+ 0.8**	**74.0**	**− 2.5**	**68.0**	**− 1.3**	**61.1**	**+ 3.3**	**47.0**	**+ 2.5**	**40.2**	**+ 6.0**	**57.8**	**+ 2.6**

Figures and letters following station indicate distance and direction of station from the city Post Office, unless otherwise indicated. Letters of alphabet indicate number of days missing from report: thus [a] one day; [b] two days, etc. Italics data interpolated. § Partly interpolated. (C) Airport.

Monthly and Annual Precipitation for the Year 1946, with Departures from Normal—Continued from page 101

Stations	January		February		March		April		May		June		July		August		September		October		November		December		Annual	
	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure
Southeastern Div.Cont.																										
New Madrid	5.07	−0.42	5.13	+1.38	3.24	−1.59	3.61	−0.97	9.72	+5.29	1.76	−2.74	3.03	−0.94	3.38	−0.72	1.49	−2.10	2.44	−1.33	7.38	+3.35	3.72	−0.89	49.97	−1.68
Oates Tower	1.59	......	3.36	......	2.57	......	4.01	......	11.39	......	0.80	......	3.56	......	5.47	......	1.21	......	0.94	......	6.31	......	2.16	......	43.37	......
Owensville	2.44	+0.62	3.05	+1.39	1.99	−1.33	4.37	+1.06	§4.84	+0.04	2.18	−2.47	2.67	−0.95	4.32	+0.48	1.45	−2.04	2.00	−1.43	10.64	+7.83	2.12	−0.21	§42.07	+2.99
Pacific	§2.22	−0.14	§2.99	+0.85	§2.40	−1.31	§2.90	−1.27	§6.75	+1.80	§1.24	−3.29	§1.82	−1.82	7.93	+4.24	§1.27	−2.53	§1.59	−1.44	9.78	+7.03	§2.11	−0.09	§43.00	+2.03
Parma	4.94	−0.32	5.32	+2.44	3.05	−2.31	3.51	−0.73	11.13	+6.97	1.43	−2.05	5.08	+1.19	2.96	−1.61	1.44	−3.61	2.30	−0.84	7.21	+2.74	3.58	−1.20	51.95	+0.67
Perryville	2.51	......	§3.61	......	1.47	......	4.58	......	7.50	......	3.73	......	0.57	......	6.62	......	2.69	......	2.16	......	5.07	......	1.71	......	§42.22	......
Pilot Knob.... 2 mi NE	....	......	§3.92	......	2.80	......	....	......	....	......	....	......	....	......	....	......	....	......	....	......	....	......	....	......	.....	......
Poplar Bluff ....(A)	§3.54	−0.88	§5.23	+2.34	2.79	−1.57	4.30	−0.21	11.47	+6.95	1.48	−2.64	3.25	−0.69	3.87	−0.70	4.38	+0.49	4.33	+0.67	7.62	+4.14	2.94	−1.05	§55.20	+6.85
Poplar Bluff ....(B)	3.74	......	5.49	......	2.77	......	....	......	....	......	....	......	....	......	....	......	....	......	....	......	....	......	....	......	.....	......
Puxico	3.67	......	4.86	......	2.18	......	3.91	......	13.59	......	1.76	......	3.69	......	3.92	......	1.10	......	2.16	......	7.66	......	3.15	......	51.65	......
Qulin	4.77	......	5.78	......	3.67	......	3.89	......	8.69	......	2.52	......	1.33	......	3.36	......	1.73	......	2.18	......	7.96	......	3.59	......	49.47	......
Reynolds	3.67	......	§3.71	......	4.15	......	4.17	......	12.89	......	1.72	......	4.37	......	7.25	......	2.08	......	1.70	......	6.83	......	2.83	......	§55.37	......
Richwoods	2.80	+0.70	4.00	+1.42	3.04	−0.38	1.97	−2.53	§6.50	+1.02	§0.48	−4.36	1.03	−1.51	5.93	+2.66	1.27	−2.31	2.39	+0.01	8.69	+5.06	2.75	+0.12	§40.85	−0.10
Rolla	2.14	−0.32	2.93	+0.88	2.14	−1.49	3.22	−1.00	5.68	+0.93	2.85	−1.56	1.88	−1.51	7.55	+3.11	1.57	−2.57	1.57	−1.89	9.88	+7.20	2.14	−0.04	43.55	+1.74
Round Spring	3.69	......	4.03	......	3.68	......	3.94	......	11.19	......	0.57	......	3.89	......	7.00	......	3.57	......	2.17	......	9.41	......	3.11	......	56.25	......
St. Louis:																										
City Office	1.59	−0.75	3.11	+0.55	3.08	−0.30	2.85	−0.96	5.58	+1.24	3.46	−0.36	1.45	−1.53	20.45	¶17.46	1.52	−1.94	3.45	+0.73	7.63	+4.80	2.95	+0.74	57.12	+19.68
St. Louis Airport	1.38	−0.88	2.03	−0.21	3.22	+0.34	2.40	−1.22	5.14	+1.22	2.31	−1.98	1.63	−1.03	14.78	¶11.76	2.22	−2.15	4.14	+0.72	8.71	+6.31	2.35	+0.62	50.31	+13.50
St. Louis Univ	1.77	−0.83	3.63	+1.32	3.75	+0.41	3.62	−0.24	5.60	+1.41	3.46	−0.13	0.96	−2.22	19.06	¶15.12	2.01	−1.75	3.39	+0.23	9.60	+6.46	2.60	+0.16	58.85	+19.94
Washington Univ	1.56	......	3.13	......	3.09	......	1.96	......	7.52	......	1.57	......	1.31	......	§18.47	......	2.56	......	1.28	......	11.29	......	2.18	......	§55.92	......
Salem	2.80	+0.08	4.23	+1.95	3.21	−0.66	4.45	−0.05	6.15	+1.64	1.23	−3.42	2.30	−1.20	9.66	+5.09	3.08	−0.80	1.67	−1.95	8.45	+5.81	2.89	+0.35	50.12	+6.84
Sikeston	5.50	+0.64	6.07	+2.85	2.17	−2.29	5.37	+0.75	11.72	+7.48	0.91	−3.28	3.51	−0.21	3.34	−0.46	3.06	−0.82	2.44	−0.88	6.36	+2.80	3.17	−0.77	53.62	+5.86
Steelville ....2½ mi. NE	2.38	......	2.82	......	2.64	......	3.63	......	6.04	......	1.29	......	1.57	......	5.91	......	0.84	......	1.89	......	9.47	......	2.34	......	40.82	......
Sullivan	2.62	+0.59	2.68	+0.23	2.36	−0.28	2.57	−1.84	6.27	+0.47	1.02	−4.93	1.23	−1.69	4.97	+1.98	1.63	−1.49	1.87	−1.22	8.90	+5.61	2.28	−0.42	38.40	−2.99
Summersville	3.92	......	§4.43	......	3.46	......	5.58	......	10.15	......	2.81	......	6.01	......	12.04	......	2.18	......	1.73	......	8.69	......	3.24	......	§64.24	......
Union ....1½ mi. SE	§2.16	−0.16	2.66	+0.46	2.01	−1.29	2.68	−1.68	5.39	+0.85	1.87	−2.43	1.13	−2.81	4.61	−0.06	2.05	−2.14	2.19	−1.29	11.18	+8.43	2.26	+0.05	§40.22	−2.07
Valley Park	§2.06	−0.20	3.10	+1.21	3.23	−0.14	2.00	−2.12	6.65	+2.18	1.39	−2.49	0.39	−2.53	15.90	¶11.85	1.42	−2.12	1.09	−2.30	11.12	+8.52	2.40	+0.23	§50.75	+12.09
Van Buren	4.03	......	6.19	+3.08	3.20	−0.24	3.66	−0.66	8.16	+3.75	1.57	−2.25	2.84	+0.68	5.40	+2.36	2.98	−0.05	2.67	+0.16	6.26	+3.10	3.14	+0.43	50.10	+11.27
Vichy .... 2 mi. NW	1.97	......	2.96	......	1.83	......	3.67	......	4.31	......	2.76	......	2.19	......	7.25	......	1.50	......	3.98	......	8.57	......	2.72	......	43.71	......
Wappapello Dam	3.23	......	4.57	......	2.76	......	4.37	......	12.52	......	1.68	......	7.76	......	3.99	......	1.50	......	3.36	......	6.63	......	2.77	......	55.14	......
Webster Groves	1.48	......	2.85	......	3.60	......	2.81	......	6.07	......	2.09	......	1.98	......	15.13	......	1.37	......	2.32	......	10.10	......	2.28	......	52.08	......
Weingarten	2.32	......	4.77	......	2.57	......	4.36	......	10.65	......	0.85	......	3.50	......	4.93	......	3.10	......	2.07	......	5.89	......	2.26	......	47.27	......
West Plains	4.77	+1.79	4.36	+0.87	4.37	+0.46	4.89	−0.76	10.14	+5.16	1.48	−3.48	3.79	+1.35	2.38	−0.35	0.91	−2.23	1.75	−1.47	9.01	+4.97	4.92	+1.70	52.77	+8.01
Williamsville	6.15	+2.37	6.39	+3.75	3.00	−0.90	*4.27*	−0.45	*11.62*	+7.15	*1.51*	−4.32	§1.93	−2.10	5.74	+0.40	3.05	−0.32	2.39	−1.72	6.86	+3.27	3.69	−0.67	§56.60	+5.78
Willow Springs 500 ft E	4.20	+1.02	4.39	+1.83	4.27	+0.03	3.29	−1.55	11.07	+6.47	3.19	−1.64	5.04	+1.24	3.91	−0.17	1.71	−2.37	2.09	−1.23	10.25	+6.91	3.60	+0.80	57.01	+11.34
Winona Ranger Sta.	4.11	......	4.88	......	4.65	......	4.11	......	12.83	......	0.91	......	4.38	......	6.43	......	1.86	......	2.49	......	4.96	......	3.50	......	55.11	......
Zalma ......3½ miles S	3.13	−0.61	4.81	+1.05	1.99	−2.82	4.61	−0.66	12.51	+7.91	2.45	−1.73	3.37	+0.57	5.21	+1.33	1.52	−1.09	2.33	−0.71	7.11	+3.56	3.55	+0.69	52.59	+7.49
Cairo, Ill	4.80	+1.04	5.73	+2.60	1.74	−2.01	4.61	+0.89	11.15	+7.44	3.01	−0.82	2.68	−0.39	5.25	+2.23	1.27	−1.62	2.69	−0.07	6.01	+2.33	3.54	+0.14	52.48	+11.76
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Italics data interpolated. § Partly interpolated. ¶ Indicates plus.

(Continued from page 97)

excess of one million dollars. Damage as a result of hail and windstorms was relatively slight. Details of the individual storms will be found in the respective monthly issues of Climatological Data for 1946.

Slight earthquakes were felt over small areas of the State on May 15th and October 7th. No damage resulted. A rather general duststorm, borne by high southwesterly winds, swept over the State on February 5th, reducing visibility to less than one mile in some places and to less than a quarter of a mile for a time, at Browning. A young girl was struck and killed by lightning, near Gideon, New Madrid County, on July 8th.

TEMPERATURE

The annual mean temperature for the State was 57.8°, or 2.6° above than the 59-year normal. The highest annual mean was 62.0° at Caruthersville, and the lowest annual mean was 52.6° at Unionville. The highest temperature recorded was 111° at Clinton and Warsaw on August 8th, and the lowest was 15° below zero at Tarkio on January 1st.

PRECIPITATION

The average annual precipitation for the State was 44.18 inches, or 3.68 inches more than the 59-year average. The greatest annual amount was 64.24 inches at Summersville, and the least annual amount was 30.39 inches at Lexington. The greatest local monthly amount was 20.45 inches at St. Louis City in August, and the least local monthly amount was a Trace at Joplin in July. The greatest amount in 24 hours was 8.78 inches at St. Louis City on August 15-16th. The average number of days with 0.01 inch, or more, was 91, or one day more than normal.

The average annual snowfall for the State was 4.1 inches, or 13.5 inches less than the 53-year average. The greatest annual snowfall was 11.3 inches at St. Louis Airport, and the least annual amount was none at Round Spring. The greatest monthly snowfall was 10.0 inches at Van Buren in February.

ERRATA

Annual 1945, page 98: Annual mean temperature at Albany should be 51.5. Number of days with precipitation 0.01 inch or more at Marshall and Seligman should be 98 and 100, respectively. Page 102: mean temperature at Albany for October should be 54.4.

January 1946, page 2: Date of greatest 24-hour precipitation at Doniphan, Marshall, and Neosho should be 8th, 4-5th, and 4-5th, respectively. Page 3: Date of greatest 24-hour precipitation at Poplar Bluff should be 8th. Date of minimum temperature at West Plains should be 27th.

February 1946, page 10: Number of days with precipitation 0.01 inch or more at Chillicothe and Lexington should be 4 and 3, respectively. Mean temperature and departure at Greenville should be 42.2° and +6.4, respectively.

March 1946, page 18: Maximum temperature at Eldon and Mount Vernon should be 84° and 87 on the 31st, respectively. Page 19: Prevailing wind direction at West Plains should be se.

April 1946, page 26: Number of clear days at Warrenton should be 16. Mean temperature and departure at Warrensburg should be 60.7° and +4.6, respectively. Page 31: mean minimum at Warrensburg should be 49.5°.

August 1946, page 58: Mean temperature at Sweet Springs should be 75.1.

October 1946, page 78: Amount of evaporation at St. Louis (Washington University) on 17th should be .119; monthly evaporation should be 3.115.

December 1946, page 89: Percentage of sunshine at Springfield should be 44.

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Vol. LI — January 1947 — No. 1

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GENERAL SUMMARY

The month averaged considerably warmer and somewhat drier than normal, for the State as a whole, as well as by divisions. It was an unfavorable month for outdoor work, being too cold, with snow covered ground the first week or ten days and too muddy and wet, from alternate thawing and freezing, most of the remainder of the month.

The cold wave that began on the 28-29th of the preceding month became intensified the first few days of January, culminating in the coldest weather of the winter, to date, on the 4th, when minimum temperatures ranged from 28° below zero in the extreme northwestern corner of the State to 19° above zero in the extreme southeastern corner. The extreme low temperature of 28° below zero, at Tarkio, on the 4th, was the lowest temperature experienced in Missouri since January 22d, 1930, when 31° below zero was recorded at Neosho, with the exception of January 26th, 1940, when a minimum temperature of 28° below zero was recorded at St. Joseph Airport. There have been only 11 prior occurrences in the past 60 years when the temperature dropped as low, or lower, than it did this month. After the 6th, the temperature moderated rapidly and daily averages were well above normal, as a rule, until the last two days of the month when the averages were slightly below normal. The usual "January thaw", came about 10 days to two weeks earlier than normal this year, beginning on the 7th and continued, generally, throughout the remainder of the month. It is during this period of temperature moderation, generally referred to as the "January thaw" that all, or most, of the freeze usually goes out of the ground and the ice in creeks and rivers breaks up or moves out. Also, during this period fields become extremely soft, dirt roads impassable and mud gets "shoe-top" deep. Such were the general conditions over the State during January, after the first week. The average temperature excess was uniformly distributed over the State, each of the three divisions averaging approximately 4° warmer than normal. The 13th, 24th, 27th, 29th, and 30th, were generally the warmest days, during the month.

Although precipitation averaged one inch less than normal, the month's moisture was ample for all current requirements. The distribution was rather irregular, ranging from a monthly total of 3.38 inches at De Soto to only 0.29 inch at Tarkio. The Southeastern Division received the most precipitation during January with an average of 1.89 inches, or 1.33 inches less than normal. The average for the Northern Division was 1.13 inches, or −0.46 inch and for the Southwestern Division 0.89 inch, −1.20 inches. Snowfall was rather heavy over the northern half of the State and in west-central counties, occurring mostly during the first three days of the month. Very little snow occurred anywhere after the 3d. Over the Southeastern Division and the southern half of the Southwestern Division the month's snowfall was relatively light. Heavy local rain occurred during the night of the 29-30th in connection with the passage of several small tornadoes and generally stormy conditions over the southeastern quarter of the State. At De Soto, 1.90 inches occurred within a 24-hour period and several other stations in that area reported amounts in excess of one inch on the 29-30th.

(Continued on page 3)

PRESSURE, WIND, HUMIDITY, AND SUNSHINE

Stations	Sea-level pressure, extremes-inches: Highest	Date	Lowest	Date	Wind: Average hourly velocity	Maximum velocity ¶	Direction of maximum	Date	Relative humidity: 12:30 a. m.	6:30 a. m.	12:30 p. m.	6:30 p. m.	Percentage of sunshine	Degree days
Columbia	30.72*	3	29.19*	29	7.6	28	nw.	21	74*	74*	63*	64*	51	948
K. C. Airport	30.78	3	29.12	29	11.2	34	nw.	20	74	77	60	62	54	987
St. Joseph	30.78*	3	29.09*	30	7.9	30	nw.	20	76*	79*	61*	68*	54	1037
St. Louis	30.68*	4	29.19*	29	12.2	34	sw.	30	80*	77	68	70*	40	854
Springfield	30.69	3	29.17	29	12.1	45	s.	29	83	89	69	74	49	909
Cairo, Ill.	30.64	4	29.23	29	9.8	34	sw.	30	..	81	70	..	34	758
....	.....	..	.....	..	....	..	......	..	..	..	..	..	..	....

* Data for Airport station. ¶ For 5-minute period.

COMPARATIVE DATA FOR JANUARY

Year	Temperature: Average for State	Highest	Lowest	Precipitation: Average for State	Average, Northern Division	Average, Southwestern Division	Average, Southeastern Division	Snowfall, Average for State	Number of days: Precip. .01 inch or more	Clear	Partly cloudy	Cloudy
1888	21.5	74	−32	2.14	1.76	2.20	2.47	....	6	..	..	..
1889	31.8	69	− 2	2.53	1.65	2.48	3.45	....	6	..	..	..
1890	33 8	81	−19	5.18	3.23	4.18	8.14	....	9	..	..	..
1891	34.1	74	− 1	1.63	1.36	0.98	2.56	4.3	6	..	..	..
1892	24.0	67	−31	1.87	1.80	1.87	1.93	....	4	14	8	9
1893	22.5	66	−14	0.45	0.51	0.41	0.42	2.4	3	9	11	11
1894	31.4	77	−35	2.48	1.90	2.95	2.59	2.7	5	13	9	9
1895	24.7	78	−22	1.66	0.97	1.44	2.57	9.4	5	14	8	9
1896	32.9	71	− 9	1.19	1.05	0.85	1.67	3.1	4	10	7	14
1897	28.4	72	−16	5.24	4.18	5.50	6.04	4.0	8	12	7	12
1898	34.3	75	−10	4.11	4.02	3.84	4.48	8.4	9	11	8	12
1899	30.2	70	−21	1.93	0.62	1.20	3.96	4.0	6	12	8	11
1900	34.5	77	− 9	1.28	0.98	1.18	1.67	0.2	4	14	7	10
1901	35.0	72	−11	1.31	1.21	1.45	1.27	0.8	4	17	7	7
1902	30.1	72	−17	1.36	1.07	0.95	2.05	6.9	5	16	7	8
1903	31.4	73	−11	1.49	1.07	1.41	1.98	5.0	6	13	6	12
1904	27.0	66	−23	3.01	2.64	2.74	3.66	7.4	8	14	6	11
1905	22.3	72	−19	2.04	1.06	2.10	2.95	6.8	8	14	6	11
1906	35.6	77	− 8	3.44	2.20	3.07	5.04	9.2	6	14	5	12
1907	34.3	79	− 5	5.04	4.14	5.28	5.69	2.8	12	7	6	18
1908	34.4	68	−10	1.67	0.50	1.47	3.04	3.6	5	19	5	7
1909	33.7	83	−20	2.36	2.01	1.70	3.36	6.5	7	6	7	18
1910	32.3	78	−24	1.82	1.96	1.73	1.78	3.5	5	13	6	12
1911	34.6	78	−19	0.84	1.57	0.32	0.64	0.7	5	8	7	16
1912	20.0	70	−36	1.22	0.35	0.79	2.51	6.5	4	14	7	10
1913	33.1	74	−12	4.18	1.53	2.63	8.38	2.6	8	13	6	12
1914	38.1	78	− 1	1.45	0.96	1.43	1.95	1.0	4	12	7	12
1915	29.1	76	−24	2.88	2.29	2.48	3.86	5.4	8	12	5	14
1916	31.6	72	−24	7.66	5.23	8.32	9.42	3.4	12	9	4	18
1917	32.9	76	−10	1.53	0.75	1.05	2.79	2.3	5	15	7	9
1918	16.4	67	−24	1.72	1.08	1.45	2.63	16.6	7	12	7	12
1919	34.0	70	−23	0.44	0.14	0.32	0.85	1.4	2	20	5	6
1920	28.6	72	− 5	1.72	0.52	1.39	3.25	5.7	5	15	5	11
1921	37.1	74	− 1	1.88	1.42	2.07	2.15	5.4	6	10	7	14
1922	29.5	66	− 6	1.33	1.08	1.41	1.50	3.9	5	14	5	12
1923	39.2	75	3	2.58	0.77	2.21	4.77	0.6	6	12	7	12
1924	24.9	68	−25	1.59	1.08	1.64	2.05	5.7	7	14	5	12
1925	29.7	65	−15	1.05	0.41	1.29	1.44	4.7	4	15	7	9
1926	32.7	70	−20	1.93	1.28	1.91	2.60	4.2	6	11	7	13
1927	30.8	73	−24	3.05	0.90	2.43	5.81	3.6	6	13	6	12
1928	33.8	77	−18	0.97	0.31	0.81	1.80	0.5	3	16	7	8
1929	25.1	72	−13	3.51	2.77	2.79	4.96	6.8	8	11	6	14
1930	20.8	73	−31	4.62	2.38	4.18	7.30	13.0	10	12	5	14
1931	36.0	76	− 5	0.74	0.39	0.65	1.18	2.0	4	16	6	9
1932	36.4	73	− 7	3.56	1.78	3.23	5.66	1.0	9	10	7	14
1933	41.4	72	8	2.56	1.73	2.62	3.34	0.5	6	14	8	9
1934	36.1	71	− 6	1.34	0.88	1.33	1.82	1.5	5	13	6	12
1935	33.0	71	−12	2.57	1.47	2.44	3.81	0.5	7	12	6	13
1936	24.4	74	−25	1.01	1.69	0.56	0.77	7.6	7	11	7	13
1937	28.5	70	−15	6.38	3.66	5.20	10.28	4.3	11	9	5	17
1938	33.1	75	− 9	2.93	2.53	3 00	3.27	0.3	6	13	6	12
1939	39.0	74	− 5	2.74	1.40	2.25	4.57	8.1	9	12	8	11
1940	15.5	55	−28	1.35	1.21	1.19	1.66	12.4	8	13	7	11
1941	34.7	70	0	3.41	3.59	3.70	2.93	4.4	11	9	5	17
1942	31.1	74	−24	1.66	0.57	1.30	3.10	3.4	5	18	6	7
1943	31.1	81	−23	0.39	0 58	0.29	0.30	3.0	4	14	7	10
1944	35.7	77	− 6	0.63	0.55	0.74	0.61	1.3	4	15	8	8
1945	30.0	65	−12	1.08	0.98	0.88	1.39	5.4	7	9	7	15
1946	33.8	71	−15	3.12	2.64	3.24	3.47	0.8	8	12	6	13
1947	34.9	79	−28	1.30	1.13	0.89	1.89	3.5	6	12	7	12
....	....	..	....	....	....	....	....	....	..	..	..	..
Period	**30.9**	**83**	**−36**	**2.30**	**1.59**	**2.09**	**3.22**	**4.4**	**6**	**13**	**6**	**12**

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Climatological Data for January 1947

Stations	Counties	Elevation, feet	Temperature, in degrees Fahr.							Precipitation, in inches						Number of days				Prevailing direction of wind	Observers
			Length of record, years	Mean	Departure from the normal	Highest	Date	Lowest	Date	Length of record, years	Total	Departure from the normal	Greatest in 24 hours [4]	Date	Total snowfall, unmelted	With precip., .01 inch or more	Clear	Partly cloudy	Cloudy		
Northern Division																					
Albany	Gentry	930	6	29.0[a]	......	61	24	-27	4	18	1.18§	+0.35	0.57	29-30	10.0§	6	18[a]	7[a]	5[a]	s.	Curtis E. Grace
Amity	DeKalb	1,007	1	30.4	......	64	24	-21	4	12	1.19	-0.36	0.50	2-3	7.7	8	14	6	11	sw.	O. M. Colhour
Bethany	Harrison	916	52	29.2	+4.4	58	24†	-28	4	54	0.44	-0.75	0.34	29	6.6	3	21	5	5	sw.	B. A. McGregor
Brookfield	Linn	767	6	29.6	......	61	24	-21	4	6	2.15	......	1.44	29	*6.0*	8	11	15	5	n.	G. F. Breen
Brunswick	Chariton	652	66	30.4	+3.7	60	24†	-20	4	68	0.96	-0.63	0.34	29-30	6.2	7	10	7	14	sw.	O. K. Benecke
Canton, Lock & Dam 20	Lewis	488	9	31.4	+4.0	58	24	-14	4	17	1.42	-0.52	0.86	29-30	5.4	7	13	7	11	sw.	Lockmaster
Carrollton	Carroll	754	1	30.9	......	58	13†	-23	4	1	1.00	......	0.45	2	7.6	5	16	7	8	sw.	Harold E. Finley
Chillicothe 2 mi ESE (C)	Livingston	771	38	29.7	+5.3	59	24	-18	4	41	0.49	-0.99	0.21	29	7.0	7	9	9	13	sw.	Civil Aeronautics Adm.
Columbia	Boone	740	57	34.4	+3.5	64	29	-6	4	57	0.96	-0.96	0.52	1-2	7.2	6	10	11	10	sw.	U. S. Weather Bureau
Conception	Nodaway	1,108	58	30.0	+5.3	59	24†	-19	4	63	1.06	+0.27	0.48	2	5.0	4	12	12	7	sw.	Fr. Adelhelm Hess
Edgerton	Platte	856	27	....	......	..	..	..	..	44	....	......	....	..	....	..	..	..	..	......	......
Elsberry	Lincoln	449	16	32.2	+0.6	63	23	-10	4	16	1.08	-1.09	0.51	1-2	4.0	5	16	3	12	nw.	Soil Conservation Service
Fayette	Howard	760	67	32.5	+5.5	60	24	-12	4	64	1.30	-0.49	0.70	29-30	5.5§	7	17	2	12	sw.	Irvin E. Schnell
Fulton	Callaway	818	59	33.0	+3.5	64	29	-5	4	55	1.16	-0.86	0.74	29	3.2	6	17	6	8	sw.	Frank E. Hillgartner
Grant City	Worth	1,134	43	30.3	+5.5	59	26	-19	4	55	1.03	+0.06	0.61	29-30	8.0	6	17	3	11	n.	J. Homer Korn
Hannibal	Marion	759	55	31.4	+4.3	56	24	-10	4	63	1.26	-0.46	0.72	29	5.6	7	10	7	14	s.	Hannibal Water Dept.
Kansas City Airport	Jackson	741	58	33.2	+5.0	62	24	-10	4	58	0.83	-0.41	0.45	2-3	6.6	6	13	7	11	sw.	U. S. Weather Bureau
Kansas City Univ.	Jackson	908	9	33.5	+1.7	61	24	-15	4	9	0.75	-0.79	0.33	29	6.9	6	18	5	8	sw.	University of Kansas City
Kidder	Caldwell	1,020	55	30.6	+4.6	59	24	-16	4	59	0.95	-0.27	0.44	29-30	8.0	8	15	3	13	sw.	Mrs. Geraldine Terry
Kirksville	Adair	969	58	30.1	+5.3	*56*	24†	-13	4	65	1.09	-0.43	0.51	29-30	5.4§	10	21	2	8	sw.	Arthur Lee Jones
Kirksville Airport	Adair	970	8	28.8	......	56	25	-15	4	8	0.73	......	0.45	29	5.0	8	6	13	12	sw.	Civil Aeronautics Adm.
Lawson	Ray	1,070	9	....	......	..	..	..	..	9	....	......	....	..	....	..	..	..	..	......	Elmer E. Lamb
Louisiana	Pike	469	53	32.8	+4.7	59	27	-12	4	66	1.12	-1.03	0.52	29-30	7.5§	9	14	6	11	w.	Stark Bro's Nurseries
Macon	Macon	875	48	29.4	+1.9	58	26	-13	4	54	1.37	-0.33	0.76	29-30	5.8	8	10	3	18	sw.	John W. Atwell
Maryville	Nodaway	1,169	57	28.7	+5.8	58	24	-18	4	53	1.25	+0.25	0.55	2	8.0	4	17	5	9	nw.	R. B. Montomery
Memphis	Scotland	787	8	28.6	......	59	24†	-15	4	17	1.00	-0.53	0.49	29	9.5	4	8	12	11	sw.	John W. Alexander
Mexico	Audrain	800	58	31.0	+3.0	59	24	-11	4	69	0.85	-1.18	0.25	29	6.5	6	11	6	14	sw.	Darrence W. Stuart
Moberly 3½ mi. NE	Randolph	860	10	....	......	..	..	..	..	10	....	......	....	..	....	..	..	..	..	......	......
New Florence, 1 mi SE	Montgomery	885	4	33.0	......	66	29	-7	4	5	0.99	......	0.55	29	3.4	3	7	7	17	sw.	U. S. Weather Bureau
Oregon	Holt	1,048	91	30.8	+6.7	63	24	-17	4	91	0.36	-0.57	0.14	29-30	8.0	5	18	5	8	s.	James M. Curry
Polo	Caldwell	1,000	1	29.6	......	60	24	-13	4	1	1.05	......	0.50	3	6.5	8	17	5	9	nw.	F. B. Albright
St. Charles	St. Charles	520	59	....	......	..	..	..	..	69	....	......	....	..	....	..	..	..	..	......	......
St. Joseph	Buchanan	957	37	31.6	+6.1	62	24	-15	4	75	0.89	-0.39	0.71	2	9.3	5	14	5	12	sw.	U. S Weather Bureau
Salisbury	Chariton	723	1	32.6	......	59	24	-14	4	1	1.27	......	0.43	29-30	7.5	7	12	12	7	s.	David H. Robertson
Saverton, Lock No. 22	Ralls	472	9	32.6	......	57	23†	-7	4	9	2.02	+0.11	1.22	29	6.5	8	15[a]	3[a]	12[a]	nw.	Lockmaster
Shelbina	Shelby	779	6	33.0	......	59	24†	-14	4	54	1.62	+0.09	0.82	29-30	4.4	7	17	5	9	sw.	Guyman Hatcher
Steffenville	Lewis	650	49	30.8	+3.4	56	24†	-14	4	54	1.25	-0.76	0.49	29-30	4.0	8	15	5	11	w.	Mrs. Fannie V. Gross
Tarkio	Atchison	916	44	27.8	+4.9	64	24	-28	4	53	0.29	-0.45	0.09	2	4.6	6	9	14	8	s.	Civil Aeronautics Adm.
Trenton	Grundy	822	51	30.8	+4.5	62	24	-17	4	52	1.44	+0.10	0.60	29-30	6.8	7	14	10	7	n	W. H. Estes
Unionville	Putnam	1,062	54	27.3	+3.8	56	24†	-16	4†	54	1.04	-0.68	0.60	29	5.5	5	15	10	6	s.	Mrs. Dora A. Wilson
Vandalia	Audrain	766	3	32.0	......	57	23†	-14	4	8	2.00	......	1.56	29-30	5.0	5	17	2	12	s.	Mrs. Naomi K. Stoutz
Warrenton	Warren	816	65	34.8	+5.6	68	29	-7	4	57	0.45	-1.74	0.27	1-2	3.5	3	16	8	7	w.	W. T. Zimmerman
Keokuk, Iowa	Lee, Ia.	574	75	31.3	+6.4	55	26	-10	4	75	1.40	-0.16	0.78	29	3.5	10	11	16	4	sw.	U. S. Weather Bureau
Division means	**and extremes**	.....	..	**31.0**	**+4.4**	**68**	**29**	**-28**	**4**	..	**1.13**	**-0.46**	**1.56**	**29-30**	**6.2**	**6**	**14**	**7**	**10**	**sw.**	
Southwestern Division																					
Anderson 1½ mi SW	McDonald	1,000	43	36.5	+0.6	76	29	-7	4	48	1.20	-1.33	0.89	2	1.0	3	17	2	12	sw.	Samuel G. Chamberlain
Appleton City, 2 mi. W	Bates	813	52	34.6	+3.3	74	29	-13	4	55	0.98§	-0.86	*0.39*	1-2	4.5	6	12	13	6	sw.	F. Paul Eye
Bolivar	Polk	1,071	44	36.8	+2.9	74	29	0	4†	52	0.62	-1.31	0.28	1-2	3.1	8	13	8	10	sw.	Southwest Baptist College
Boonville	Cooper	650	9	31.7	+2.6	61	29	-11	4†	70	1.68§	-0.04	0.94	29	8.0	6	11	8	12	sw.	Boonville Water Dept.
Butler	Bates	865	1	34.8	......	72	29	-17	4	6	1.08	......	0.64	2	6.0	6	8	17	6	sw.	Harley W. Johnson
Camdenton	Pulaski	940	1	37.8[a]	......	74[a]	29	1[a]	4	1	0.80§	......	0.25	29	3.5	5	17[a]	7[a]	6[a]	sw.	Mo. Conservation Com.
Carthage	Jasper	962	13	38.0	......	76	29	-9	5	23	1.00	......	0.80	1-2	3.0	2	8	19	4	s.	Carthage W. and E. Plant
Clinton	Henry	786	54	34.1	+2.4	74	29	-13	4	60	1.01	-1.02	0.54	29	4.0	5	16	8	7	s.	U. S. Weather Bureau
Eldon	Miller	934	52	37.2	+6.1	73	29	-7	4	48	0.77	-0.99	0.32	2	3.6	5	7	16	8	sw.	Arthur Rothwell
Harrisonville	Cass	904	69	31.8	+4.5	63	13	-13	4†	72	0.89	-0.68	0.34	3†	5.1	5	13	7	11	se.	Jeffrey B. Patterson
Jefferson City	Cole	557	57	34.6	+4.8	74	29	-7	4	65	1.37	-0.61	0.89	29	3.7	6	16	5	10	w.	K. W. O. S. Radio Farm
Joplin	Jasper	1,008	25	38.3	+3.4	75	29	-4	4	42	0.81	-1.35	0.40	29	3.0	4	8	15	8	s.	Empire Dist. Electric Co.
Lakeside	Miller	595	16	35.6	+2.6	74	29	-3	4†	16	0.72	-1.46	0.28	1-2	2.5	6	10	7	14	sw.	W. S. Frame
Lamar	Barton	980	59	35.2	+3.1	76	29	-11	4†	66	0.78	-1.05	0.48	29	2.0	2	20	4	7	nw.	Mrs. Marie Mann
Lebanon	Laclede	1,265	59	36.9	+4.4	74	29	-5	4	60	0.72	-1.92	0.33	2	2.0	6	8	11	12	sw	Mrs. Rosa E. Montelius
Lexington	Lafayette	688	62	33.8	+6.0	65	13	-8	4	63	0.66§	-0.86	*0.50*	2-3	5.0	2	16	5	10	s.	Tilton Davis
Lockwood	Dade	1,078	41	38.0	+4.7	73	29	-5	4	51	0.42	-1.44	0.27	1-2	3.0	2	16	11	4	sw.	Hubert A. Nieman
Marshall	Saline	779	60	33.7	+5.8	61	13	-11	4	57	1.00	-0.65	0.70	29	8.5§	5	11	11	9	n.	Thomas A. Reid
Monett	Barry	1,317	0	38.8	......	72	29	-1	4	0	0.50	......	0.40	1-2	1.4	5	9	9	13	s.	Mo. Univ. Fruit Exp. Sta.
Mountain Grove	Wright	1,463	46	37.2	+4.4	71	29	1	4	50	0.74	-1.99	0.38	1-2	1.6	4	11	7	13	nw.	Mo. Fruit Exp. Station
Mount Vernon	Lawrence	1,174	35	38.8	+5.5	74	29	0	4	47	0.92	-1.79	0.17	2	*1.0*	6	13	13	5	sw.	James C. Williamson
Neosho	Newton	1,011	60	39.4	+4.3	75	29	-5	4	64	0.82	-1.65	0.36	29	2.5	7	16	8	7	sw.	U. S. Fisheries Station
Nevada	Vernon	862	54	36.4	+4.5	75	29	-18	4	55	0.56	-1.27	0.40	1-2	4.0	3	19	3	9	sw.	Henry Kraft
Ozark Beach	Taney	700	7	37.6	......	79	29	6	4	22	0.62	-2.35	0.42	1-2	0	3	5	12	14	nw	Empire District Elec. Co.
Sedalia	Pettis	910	34	34.8	+8.4	71	29	-13	4	36	0.80	-1.45	0.27	29-30	4.7	8	15	8	8	sw.	Dr. J. E. Cannaday
Seligman	Barry	1,542	46	38.6	+3.5	73	29	-1	4	44	0.55§	-2.24	0.40	2	T.	1	10	12	9	s.	Floyd E. Fawver
Seymour 3½ miles NE	Webster	1,642	41	33.7	-0.3	71	29	1	4†	41	0.62	-1.97	0.30	19	*1.0*	3	11	4	16	sw.	Ira H. Hailey
Springfield 4 mi. NW	Greene	1,301	59	35.7	+3.4	74	29	-1	4	59	0.52	-1.82	0.25	1-2	1.7	6	6	11	14	s.	U. S Weather Bureau
Sweet Springs	Saline	700	6	32.8	......	62	13	-23	4	6	1.15	......	0.38	29	*9.5*	6	18	7	6	n.	H F. Nelson
Warrensburg	Johnson	878	60	34.4	+5.7	61	13	-10	4	67	0.92	-0.86	0.50	29	5.5	5	19	4	8	sw.	Central Teachers College
Warsaw	Benton	687	46	36.0	+3.1	76	29	-19	5	52	0.82	-1.32	0.35	1-2	5.5§	4	19	5	7	w.	Dora B. Johnson
Wasola	Ozark	1,294	6	39.6	......	74	29	2	4	7	1.11	......	0.40	29	0	4	11	10	10	n.	A. W Pinckney
Waynesville	Pulaski	805	1	35.7[f]	......	75[f]	29	-4[g]	4	1	*0.75*	......	*0.40*	12	*2.0*	5	14[f]	7[f]	4[f]	n.	Jesse H. Barlow
Division means	**and extremes**	.....	..	**36.0**	**+4.0**	**79**	**29**	**-23**	**4**	..	**0.89**	**-1.20**	**1.21**	**29**	**3.4**	**5**	**13**	**9**	**9**	**sw.**	
Southeastern Division																					
Advance ¼ mile W	Stoddard	354	10	38.2	+3.9	70	29	15	4	10	1.12	-2.57	0.31	1-2	T.	13	6	4	21	s.	U. S. Weather Bureau
Arcadia	Iron	926	66	35.8	+3.9	70	29	9	1†	69	1.94	-1.05	1.05	29-30	0.2	3	7	3	21	e.	Arcadia College
Birch Tree ½ mile E	Shannon	1,000	52	38.2	+3.7	73	29	7	4	53	1.52	-1.66	0.50	29	0.2	4	8	13	10	sw.	Mrs. Mildred E. Catlett
Black 9 miles NW	Iron	1,000	54	35.9	+3.3	70	29	6	4	54	2.27	-0.43	1.32	29-30	0.6§	7	10	8	13	sw.	M. L. Volner
Campbell	Dunklin	314	21	40.8	+3.1	71	30	17	4	21	2.56	-2.74	0.82	1-2	T.	11	8	6	17	s.	Mrs Ruth Christian
Cape Girardeau	Cape Girardeau	347	2	39.2	......	70	30	15	4	47	2.20	-1.78	0.50	14-15	T.	12	8	4	19	sw.	Dr. Robert Martin
Caruthersville	Pemiscot	265	51	42.8	+3.7	73	27	19	4	55	3.00	-2.19	1.10	1-2	3.0	9	8	5	18	sw.	Victor T. Malloure
Clearwater Dam	Wayne	648	1	39.4	......	72	29	12	4	1	2.27	......	1.13	29-30	T.	7	7	8	16	s.	U. S. Engineer Office
Crystal City	Jefferson	420	13	38.2	+6.8	70	29	6	4	13	2.04	-0.25	0.81	29	1.5	8	10	3	18	nw.	Richard K. Ragland
Doniphan	Ripley	344	43	40.0	+4.2	73	29	13	22	43	1.04	-3.06	....	..	*T.*	6	10	3	18	sw.	Boyce Lackey
Farmington	St. Francois	896	36	37.5	+4.9	68	29	7	4	50	2.29	-0.85	0.91	29-30	0.2	7	10	2	19	s.	F. M. Karsch
Greenville	Wayne	460	38	38.6[c]	+3.6	69[c]	27†	14[c]	6†	40	1.94	-1.38	0.84	29	T.	7	9[c]	1[c]	18[c]	se.	Beuford Shoemake
Jackson	Cape Girardeau	428	56	38.6	+4.8	69	29†	15	4	57	1.84	-2.10	0.45	2	0.1	11	6	8	17	s.	Danny Siebert
Koshkonong	Oregon	958	46	36.4	-0.1	73	29	-1	4	47	3.08	-0.54	1.66	29	2.0	7	7	3	21	se.	Mrs. Genevieve T. Smith
Licking 4 miles N	Texas	1,170	10	34.8	+1.7	73	29	0	4	10	0.80	-1.17	0.50	29	T.	3	7	10	14	s.	Fern E. Austin

Continued on next page

Climatological Data for January 1947—Continued from preceding page

Stations	Counties	Elevation, feet	Temperature, in degrees, Fahr.							Precipitation, in inches						Number of days				Prevailing direction of wind	Observers
			Length of record, years	Mean	Departure from the normal	Highest	Date	Lowest	Date	Length of record, years	Total	Departure from the normal	Greatest in 24 hours [4]	Date	Total snowfall, unmelted	With precip., .01 inch or more	Clear	Partly cloudy	Cloudy		
Southeastern Division—	*Concluded*																				
Marble Hill	Bollinger	532	52	37.7	+ 3.1	69	27	15	4†	54	1.85	−2.02	0.33	1-2	*T.*	12	9	8	14	s.	R. A. DeWitt
Poplar Bluff	Butler	339	42	40.2	+ 4.2	70	29	15	4	43	1.06	−3.36	0.47	1-2	1.0	8	9	2	20	s.	Osmon M. Richardson
Rolla	Phelps	1,202	47	33.6	+ 1.7	68	29	− 2	4	63	1.28	−1.18	0.50	29	2.0	9	10	7	14	sw.	Rolla School of Mines
St. Louis:																					
City Office		465	110	37.5	+ 6.4	67	29	5	4	110	2.23	−0.11	1.25	29	1.8	12	6	8	17	sw.	**Section Center**
St. Louis Airport	St. Louis	556	10	36.6	+ 6.8	67	29	0	4	16	2.08	−0.18	1.41	29	2.9	6	8	2	21	se.	U. S. Weather Bureau
St. Louis University	St. Louis City	578	35	37.2	+ 5.2	68	29	4	4	35	2.13	−0.47	1.36	29	2.4	12	11	6	14	se.	St. Louis University
Salem	Dent	1,206	43	36.8	+ 4.2	73	29	0	4	46	0.97	−1.75	0.54	29	0.8	6	9	5	17	s.	E. E. Martin
Sikeston	Scott	318	40	39.4	+ 2.4	70	27†	17	4	50	2.90	−1.96	0.88	19-20	1.4	12	5	12	14	nw.	Mrs. Lucy W. Humphreys
Union 1½ mi. SE	Franklin	520	9	35.8	+ 2.4	72	29	− 2	4	30	1.23	−1.09	0.62	29	*1.7*	8	15	2	14	nw.	Cornelius Sieges
Vichy 2 mi. NW	Maries	1,125	11	34.8	......	73	29	− 5	4	12	0.68	......	0.46	1-2	2.1	6	7	9	15	sw.	Civil Aeronautics Adm.
Wappapello Dam	Butler	475	8	38.8	......	79	27	14	4	8	1.81	−0.87	0.71	1-2	1.0§	12	6	2	23	nw.	U. S. Engineer Office
Webster Groves	St. Louis	507	1	35.8	......	68	29	1	4	2	1.74	......	0.77	29	0.7	7	14	5	12	sw.	R. W. Lawrie
Weingarten	St. Genevieve	833	6	37.0	......	69	29	8	4	7	1.82	......	1.02	29	*0.5*	6	8	6	17	n.	William J. Miller
West Plains	Howell	1,005	10	37.4	+ 3.4	74	29	6	4	10	1.22	−1.76	0.50	1-2	1.0	6	5	5	21	s.	U. S. Weather Bureau
Willow Springs 500 ft E	Howell	1,238	6	37.8	......	74	29	3	4	40	2.06	−1.12	1.19	29	1.0	4	11	5	15	s.	Allen Frazee
Cairo, Ill.	Alexander, Ill.	314	75	40.6	+ 5.7	71	29	19	4	76	2.80	−0.96	0.91	19-20	T.	13	5	6	20	sw.	U. S. Weather Bureau
Division means	**and extremes**	.....	..	**37.8**	**+ 3.9**	**79**	**27**	**− 5**	**4**	..	**1.89**	**−1.33**	**1.90**	**29-30**	**0.9**	**8**	**8**	**6**	**17**	**s.**	
State means	**and extremes**	.....	..	**34.9**	**+ 4.0**	**79**	**27†**	**−28**	**4**	..	**1.30**	**−1.00**	**1.90**	**29-30**	**3.5**	**6**	**12**	**7**	**12**	**sw.**	

The departures from normal temperature are computed from the averages of the entire period for stations having 10 or more years of record. Departures of precipitation for stations with 15 years or more of record are computed from a normal or "standard mean", adjusted to a uniform 35-year period; for stations of 10 to 14 years the means for the period of record are used. The normal may be found by adding the departures when minus (−) or subtracting when plus (+). Figures and letters following stations indicate distance in miles and direction of station from the city Post Office, unless otherwise indicated. T. Trace or 0.005 inch or less. [a], [b], [c], etc., number of days missing; for example, [b], indicates two days missing. Italics data interpolated. § Partly interpolated. † And other dates. ‡ Received too late to be included in means and summaries. [4] Best available used for stations not equipped with recorders. Post office address of: Altona is Adrian; Clearwater Dam is Piedmont; Crane Mountain is Arcadia; East End is Goodland; Eastwood Lookout is Van Buren; Hailey is Cassville; High Lookout is Birch Tree; Macedonia Lookout is Doniphan; Oates Tower is Centerville; Perry is Center; Pineview Lookout is Cape Fair; Sugar Camp Lookout is Seligman; Topaz is Cabool; Wilderness Lookout is Lampe. (C) Airport. ¶ Indicates plus.

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There were no overflows in any of the major streams of the State; however, flood stage, or slightly higher, occurred at Cairo, Ill., from the 26th to 31st.

Generally high winds, local tornadoes, and rather general occurrence of hail, mostly light, occurred during the night of the 29-30th. For details see the accompanying storm table. Glaze formation was rather general on the first three days of January, being especially heavy in the southeastern quarter of the State, making roads, highways, and streets hazardous and seriously impeding traffic.

Snow-covered ground the first week or ten days over most of the northern half of the State and wet and muddy fields during the remainder of the month, over all of the State, prevented field work and grazing of livestock, and dry feeding was necessary throughout January. At the close of the month the winter wheat crop was in good condition, having made some growth during the unusually mild weather, after the first week or ten days of the month. Some crops still remained in the fields as the month closed. Fruit buds, particularly peaches, were believed killed, or severely damaged, by the extremely low temperatures of January 4th over much of the northern and locally in central portions of the State.—M. R. W.

TEMPERATURE

The monthly mean for the State, 103 stations reporting, was 34.9°, or 4.0° warmer than the 60-year January average. The highest monthly mean was 42.8° at Caruthersville, and the lowest was 27.3° at Unionville. The highest reported was 79° at Ozark Beach, on the 29th, and at Wappapello Dam, on the 27th, and the lowest was 28° below zero, at Bethany and Tarkio, on the 4th.

PRECIPITATION

The average for the State, 213 stations reporting, was 1.30 inches, or 1.00 inch less than the 60-year January average. The greatest monthly amount was 3.38 inches at De Soto, and the least was 0.29 inch at Tarkio. The greatest amount reported in 24 hours was 1.90 inches at De Soto on the 29-30th. The average number of days with 0.01 inch, or more, was 6.

Snowfall for the State averaged 3.5 inches, or 0.9 inch less than the 56-year January average. The greatest monthly snowfall reported was 10.0 inches, at Albany.

MISCELLANEOUS PHENOMENA

Flood.—In Mississippi River, at Louisiana, continued from December 30th to January 7th, 10th to 13th, 17th to 18th, 22d to 24th, 30th; at Cairo, Ill., 26th to 31st.

Fogs.—Heavy, 2d, 4th, 6th, 7th, 9th, 10th, 11th, 12th, 13th, 14th, 15th, 16th, 17th, 21st, 23d, 24th, 25th, 29th, 30th.

Glaze.—1st, 2d, 3d, 4th, 5th, 6th, 7th, 12th, 15th, 19th, 20th, 25th, 29th, 30th, 31st.

Hail.—Light, 13th at Amity; 29th at Carrollton, near Columbia, Fulton, Grant City, Kansas City University, Kidder, King City, Maryville, New Florence, Shelbina, Steffenville, Vandalia, Butler, Elijah, Harrisonville, Jefferson City, Joplin, Marshall, Neosho, Springfield, Sweet Springs, Warrensburg, Westphalia, Alton, Eastwood Lookout, Koshkonong, St. Louis University, Webster Groves, Weingarten. Moderate, 29th at Canton, Oregon, Seymour. Heavy, 29th at Altona, Boonville, Pleasant Hill, Greenville.

Sleet.—1st, 2d, 3d, 4th, 6th, 7th, 9th, 12th, 15th, 16th, 19th, 20th, 29th, 30th.

Tornado.—29th (See special storm table).

Windstorm.—29th. (See special storm table).

Daily Precipitation for January 1947

Stations	Drainage-basins	Day of month																															Total
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Northern Division																																	
Albany	Grand	....	*.35*	*.10*	....	....	....	....	....	....	....	....	.10	....	....	....	....	....	....	....	.06	....	....	....	....	....	....	....	....	.37	.20	....	§1.18
Amity	do	T.	.24	.50	....	....	....	....	....	....	....	....	.01	.01	.13	T.	....	....	....	T.	.12	....	....	....	....	....	....	....	....	.08	.10	....	1.19
Auxvasse	Missouri	.04	.38	.03	....	....	....	T.	....	....	....	T.	.05	....	....	....	....	....	....	T.	.11	....	....	....	....	....	....	....	....	.16	.05	....	0.82
Bethany	Grand	....	.04	.06	....	....	....	....	....	....	....	....	*T.*	T.	....	....	T.	....	....	....	T.	T.	....	....	....	....	....	....	....	.34	T.	T.	0.44
Bowling Green[2]	Mississippi	.41	.08	.04	....	....	....	....	....	....	....	....	....	.01	....	....	....	....	....	....	.01	.05	....	....	....	....	....	....	....	....	.45	....	1.05
Brookfield[2]	Grand	....	.14	.12	.14	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.18	.08	*T.*	....	....	....	....	....	.05	....	.22	1.22	....	2.15
Browning 3 mi. NE	do	T.	.30	.12	....	....	....	....	....	T.	....	....	.05	T.	.05	.06	T.	....	....	.01	.14	....	....	....	....	....	....	....	....	.04	.39	....	1.16
Brunswick[2]	do	....	.17	.26	....	....	....	....	....	....	....	....	T.	T.	T.	....	T.	....	....	....	.06	.10	....	....	....	....	....	....	....	.01	.34	.02	0.96
Canton, Lock No. 20[2]	Mississippi	....	.16	.31	....	....	....	....	....	....	....	....	....	.05	T.	....	.02	....	....	....	T.	.01	....	....	....	....	....	....	....	.01	.86	T.	1.42
Carrollton	Missouri	T.	.45	.25	....	....	....	....	....	....	....	....	T.	T.	....	T.	....	....	....	T.	.10	....	....	....	....	....	....	....	....	.17	.03	....	1.00
Centralia[2]	Mississippi	*	.24	.31	....	....	....	....	....	....	....	....	....	....	....	....	.02	....	....	....	.04	.09	....	....	....	....	....	....	....	....	.27	....	0.97
Chillicothe[2] (B)	Grand	....	.04	*.32*	....	....	....	....	....	....	....	....	....	.03	....	....	.03	....	....	....	.02	.05	....	....	....	....	....	....	....	.05	.30	T.	§0.84
Chillicothe[3] 2 mi ESE (C)	do	T.	.09	.01	....	....	....	....	....	....	....	....	.01	T.	T	.05	....	....	....	T.	.09	T.	....	....	....	....	....	....	....	.21	.03	T.	0.49
Columbia[1], [5]	Missouri	.14	.43	.03	T.	....	.01	T.	....	....	....	T.	T.	....	T.	T.	T.	....	....	T.	.17	....	....	....	....	....	....	....	....	.18	T.	....	0.96
Columbia[5] 9 mi. WNW	do	.05	.27	.10	....	....	....	....	....	....	....	T.	T.	....	....	....	T.	....	....	T	.17	....	....	....	....	....	....	....	....	.11	.29	T.	0.99
Conception	do	....	.48	....	....	....	....	....	....	....	....	....	T.	....	....	....	T.	....	....	T.	.07	....	....	....	....	....	....	....	....	.31	.20	....	1.06
Edgerton	do	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Edina[2]	Mississippi	....	.21	.40	....	....	....	....	....	....	....	....	....	.07	.02	....	.02	....	....	....	....	.05	....	....	....	....	....	....	....	....	.58	....	1.35
Elsberry S. C. S.[2]	do	....	.51	.16	T.	....	....	*T.*	....	....	....	....	....	.01	....	....	....	....	....	....	T.	.08	....	....	....	....	....	....	....	T.	.32	T.	1.08
Fayette	Missouri	T.	.25	.14	....	....	....	....	....	....	....	T.	.02	....	....	T.	....	....	....	.02	.17	....	....	....	....	....	....	....	....	.20	.50	....	1.30
Fulton[2]	do	....	.16	.09	....	....	....	....	....	....	....	....	....	.01	....	....	....	....	....	....	.01	.15	....	....	....	....	....	....	....	....	.74	....	1.16
Gallatin[2]	Grand	....	.06	.35	....	....	....	....	....	....	....	....	....	.03	....	....	....	....	....	....	.08	.02	....	....	....	....	....	....	....	.15	.49	T.	1.18
Grant City	do	....	*	.13	....	....	....	....	....	....	....	....	T.	.03	....	....	....	....	....	T.	.03	T.	....	....	....	....	....	....	....	.23	.61	....	1.03
Hannibal[1] (A)	Mississippi	.08	.30	.03	....	....	....	....	....	....	....	....	.03	....	....	.07	....	....	....	....	.03	T.	....	....	....	....	....	....	....	.72	*T.*	....	1.26
Hannibal[2] (B)	do	....	.24	.21	.05	....	....	....	....	....	....	....	....	.06	T.	....	.04	....	....	....	.04	.06	....	....	....	....	....	....	....	.05	.86	T.	1.61
Hermann[2]	Missouri	....	.28	.24	.06	....	....	.06	....	....	....	....	....	....	....	....	....	....	....	....	.05	.20	....	....	....	....	....	....	....	....	.06	....	0 95
Kahoka[2]	Mississippi	*.06*	.15	....	....	....	....	....	....	....	....	....	....	.03	.05	....	T.	....	....	....	.02	T.	....	....	....	....	....	....	....	....	.70	....	§1.01
Kansas City Airport[1], [5]	Missouri	T.	.42	.05	....	....	....	....	....	....	....	T.	.02	....	T.	....	....	....	....	T.	.12	....	....	....	....	....	....	....	....	.20	.02	T.	0.83
Kansas City University	do	....	.12	.07	....	....	....	....	....	....	....	T.	.08	T.	....	....	....	....	....	T.	.08	....	....	....	....	....	....	....	....	.33	.07	....	0.75
Kidder[2]	Grand	....	.16	.15	....	....	....	....	....	....	....	....	....	.03	....	....	....	....	....	....	.10	.02	....	....	....	....	....	....	....	.03	.44	.02	0.95
King City	Missouri	....	.40	*T.*	....	....	....	....	....	....	....	....	.08	.04	....	....	....	....	....	.08	.31	....	....	....	....	....	....	....	....	.73	.14	....	1.73
Kirksville	Mississippi	....	.17	.13	....	....	....	....	....	*T.*	....	....	.02	.05	.03	.02	....	....	....	....	.10	....	....	....	....	....	....	....	....	.03	.51	.03	1.09
Kirksville Airport	do	T.	.15	.01	....	....	....	....	T.	....	....	T.	.05	T.	.01	T.	.02	....	....	....	.03	T.	....	T.	T.	....	....	....	....	.45	.01	T.	0.73
LaBelle[2]	do	....	.20	.30	....	....	....	....	....	....	....	....	....	.32	T.	....	....	....	....	....	.05	T.	....	....	....	....	....	....	....	T.	.80	....	1.67
Lawson	Missouri	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Linneus	Grand	T.	.07	.04	....	....	....	....	....	....	....	....	.02	T.	....	.08	T.	....	....	....	....	*.25*	*T.*	....	....	....	....	....	....	.02	.21	....	0.69
Louisiana (A)	Mississippi	.08	.07	.22	....	....	....	....	....	....	....	....	.03	....	....	.02	....	....	....	....	.10	....	....	....	....	....	....	....	....	.03	.52	.05	1.12
Louisiana[2] (B)	do	....	.36	.24	.02	....	....	....	....	....	....	....	T.	.01	....	....	.03	....	....	....	T	.07	....	....	....	....	....	....	....	T.	.61	T.	1.34
Lucerne[2]	Grand	....	T	.20	....	....	....	....	....	....	....	....	....	.10	....	....	....	....	....	....	.10	....	....	....	....	....	....	....	....	T.	.40	T.	0.80
Macon[2]	Chariton	....	.12	.22	....	....	....	....	....	*T.*	....	....	....	.08	.05	....	.04	....	....	....	.02	.08	....	....	....	....	....	....	....	T.	.76	....	1.37
Madison[2]	Mississippi	*	.22	.10	....	....	....	....	....	....	....	....	....	.03	....	....	....	....	....	....	....	.08	....	....	....	....	....	....	....	....	.28	....	0.71
Martinsburg[2]	Missouri	....	.34	.10	.01	....	....	T.	....	T.	....	....	T.	.05	....	....	....	....	....	....	.02	.11	....	....	....	....	....	....	....	....	1.49	T.	2.12
Maryville	do	....	.55	*T.*	....	....	....	....	....	....	....	....	T.	....	....	....	T.	....	....	T.	.09	....	....	....	....	....	....	....	....	.38	.23	....	1.25
Memphis[2]	Mississippi	....	.16	.27	....	....	....	....	....	....	....	T.	....	.08	....	....	*T.*	....	....	....	T.	T.	....	....	....	....	....	....	....	T.	.49	....	1.00
Mexico[2]	do	....	.20	.13	.10	....	....	....	....	....	....	....	....	.11	....	....	....	....	....	....	....	.06	....	....	....	....	....	....	....	....	.25	*T.*	0.85
Milan[2]	Grand	....	.10	.33	....	....	....	....	....	....	....	....	....	.07	T.	....	.10	....	....	....	T.	.10	....	....	....	....	....	....	T.	.35	.32	....	1.37
Moberly[2] 3½ mi. NE	Mississippi	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Monroe City	do	....	.24	.22	....	....	....	....	....	....	....	....	.06	....	.04	.03	....	....	....	....	.06	....	....	....	....	....	....	....	....	.07	.38	....	1.10
New Florence[3], [5] 1 mi SE	Missouri	.16	.28	T.	T.	....	T.	T.	T.	T.	....	T.	T.	T.	T.	T.	T.	....	....	T.	T.	T.	....	....	....	....	....	....	....	.55	T.	....	0.99
Oregon	do	....	.09	....	....	....	....	....	....	....	....	....	.06	....	....	....	....	....	....	T.	.02	....	....	....	....	....	....	....	....	.05	.14	....	0.36
Palmyra[2]	Mississippi	....	*	*	*	....	....	....	....	....	....	....	....	.50	....	....	....	....	....	....	*.02*	*.03*	....	....	....	....	....	....	....	.24	*.50*	....	§1.29
Paris[2]	do	....	.16	.25	.03	....	....	....	....	T.	....	....	.01	.02	.01	....	T.	....	....	....	.03	.06	....	....	....	....	....	....	....	T.	.40	*T.*	0.97
Perry 1 mile E	do	*.03*	*.25*	*.12*	....	....	....	....	....	....	....	.03	....	....	....	....	....	....	....	....	.10	....	....	....	....	....	....	....	....	.03	.18	....	§0.74
Philadelphia	do	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Polo[2]	Missouri	....	*T.*	.50	.05	....	....	....	....	....	....	....	....	.05	....	....	T.	....	....	T.	.04	.10	....	....	....	....	....	....	....	.02	.28	.01	1.05
St. Charles[2] (A)	do	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
St. Charles[2] (B)	do	....	.49	.07	.04	....	....	.07	....	T.	....	....	T.	.01	T.	T.	....	T.	....	....	.12	T.	....	....	.03	T.	....	....	....	T.	1.11	T.	1.94
St. Joseph[1], [5]	do	....	.71	T.	....	....	....	....	....	....	....	....	.03	T	....	....	....	....	....	T.	.05	....	....	....	....	....	....	....	....	.08	.02	T.	0.89
Salisbury	Chariton	*T.*	.36	.20	....	....	....	....	....	....	....	....	.05	*T.*	....	.06	....	....	....	....	.17	....	....	....	....	....	....	....	....	.28	.15	*T.*	1.27
Saverton, Lock No. 22[2]	Mississippi	....	.25	.25	.24	....	....	....	....	....	....	....	T.	.02	....	....	.02	....	....	....	T.	.02	....	....	....	....	....	....	....	.07	1.15	T.	2.02
Shelbina	do	T	*	.57	....	....	....	....	....	T.	....	....	.04	....	....	.12	....	....	....	T.	.07	....	....	....	....	....	....	....	....	.34	.48	....	1.62
Shelbyville[2]	do	....	....	.25	....	....	....	....	....	....	....	....	....	....	.12	....	....	....	....	....	....	.22	....	....	....	....	....	....	....	....	.72	....	1.31
Steffenville	do	....	.18	.08	....	....	....	....	....	....	....	....	.03	.01	....	.07	....	....	....	T.	.05	....	....	....	....	....	....	....	....	.34	.49	....	1.25
Tarkio[3]	Missouri	....	.09	....	....	....	....	....	....	....	....	....	T.	....	....	T.	T.	....	....	.04	.02	....	....	....	....	....	....	....	....	.03	.08	.03	0.29
Trenton[2]	Grand	....	.03	.43	....	....	....	....	....	....	....	....	....	.06	.05	....	....	....	....	....	....	.06	....	....	....	....	....	....	....	.21	.60	T.	1.44
Troy[2]	Mississippi	....	.42	.12	T.	....	....	T.	....	....	....	....	T.	T.	T.	....	T	....	....	....	.01	.05	....	....	....	....	....	....	....	....	.29	T.	0.89
Unionville[2]	Chariton	....	*T.*	.21	....	....	....	....	....	....	....	....	....	.06	....	....	.15	....	....	....	.02	....	....	....	....	....	....	....	....	....	.60	*T.*	1.04
Vandalia	Mississippi	*	.32	.12	....	....	....	T	....	....	....	T.	....	....	....	....	....	....	....	T.	*T.*	....	....	....	....	....	....	....	....	.20	1.36	....	2.00
Warrenton	do	.12	.27	.06	....	....	....	T.	....	T.	....	....	T.	....	....	....	T.	....	....	T.	T.	....	....	....	....	....	....	....	....	T.	T.	....	0.45
Keokuk, Iowa[1]	do	T.	.34	.07	....	....	....	....	....	....	....	....	.03	.05	.04	T.	....	....	....	.01	.02	....	....	....	....	....	....	....	T.	.78	.05	.01	1.40
Southwestern Division																																	
Altona[2]	Osage	T.	.15	.10	....	....	....	....	....	....	....	....	T.	T.	....	....	....	....	....	....	....	.10	....	....	....	....	....	....	....	....	.60	....	0.95
Anderson[2] 1½ mi. SW	Neosho	....	.89	....	....	....	....	....	T.	....	....	....	....	....	T.	....	....	....	....	T.	.16	....	....	....	T.	....	....	....	....	....	.15	....	1.20
Appleton City 2 mi. W	Osage	.01	*.39*	.25	....	....	....	....	....	....	....	T.	.04	....	....	T.	....	....	....	T.	.03	....	....	....	T.	T.	....	....	....	.26	T.	....	§0.98
Ava Ranger Station[2]	White	.08	.11	....	....	....	....	.10	....	....	....	....	....	....	*T.*	....	....	....	....	....	.14	....	....	....	....	....	....	....	....	....	.20	....	0.63
Bolivar	Osage	.02	.28	.04	T.	....	....	.12	....	....	....	....	.01	....	....	....	....	....	....	T.	.01	....	....	....	....	....	....	....	....	.08	.06	....	0.62
Boonville[2] (A)	Missouri	....	.12	*.30*	....	....	....	....	....	....	....	....	*T.*	*.01*	....	....	....	....	....	....	.10	.21	....	....	....	....	....	....	....	....	.94	....	§1.68
Boonville[2] (B)	do	....	.18	.12	T.	....	....	....	....	....	....	....	T.	.01	....	....	....	....	....	....	.07	.13	....	....	....	....	....	....	....	....	1.09	T.	1.60
Bradleyville[2]	White	.07	.28	....	....	....	....	....	....	....	....	....	....	.10	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.34	....	0.79
Buffalo[2]	Osage	....	.29	.09	....	....	....	.11	....	....	....	....	....	T	....	....	....	....	....	....	T.	.03	....	....	....	....	....	....	....	....	.12	....	0 64
Butler	do	T.	.55	.09	....	....	....	....	....	....	....	T.	.06	.01	....	....	....	....	....	T.	.09	....	....	....	....	....	....	....	....	.28	T.	....	1.08
Camdenton	do	*.15*	*.20*	*.15*	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.05	....	....	....	....	....	....	....	....	....	.25	....	§0.80
Caplinger Mills[2]	do	T.	.15	.02	....	....	....	T.	....	....	....	....	.02	T.	....	....	T.	....	....	....	.04	T.	....	....	....	....	....	....	....	....	.18	....	0.41
Carthage	Neosho	....	.80	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.20	....	....	1.00
Cassville[2]	White	.15	.10	.10	T.	.02	....	.04	....	....	....	....	....	....	....	....	....	....	....	....	T.	T.	....	....	....	....	....	....	....	....	T.	....	0.41
Chadwick[2]	do	.04	.50	.08	T.	T.	....	.04	....	....	....	....	.05	....	....	....	....	....	....	....	.12	....	....	....	....	....	....	....	....	....	.23	....	1.06
Clinton[3]	Osage	.05	.28	.02	....	....	....	....	....	....	....	T	T	T.	....	....	....	....	....	T.	.12	....	....	....	....	....	....	....	....	.54	T.	....	1.01
Concordia	Missouri	T	.04	.93	....	....	....	....	....	....	....	T.	.96	.01	....	....	....	....	....	T	.10	....	....	....	T.	....	....	....	....	.33	T.	....	2.37
Crocker	Osage	.10	.08	T.	....	....	....	....	....	....	....	....	.41	....	....	....	....	....	....	.03	.16	....	....	....	....	....	....	....	....	T.	T.	....	0.78
Eldon	Missouri	.25	.32	.05	*T.*	....	....	....	....	....	....	....	T.	T.	....	....	....	....	....	....	.07	....	....	....	....	....	....	....	....	....	.08	....	0.77
Eldorado Springs	Osage	T.	.50	....	....	....	....	....	....	....	....	T.	T.	....	....	....	....	....	....	.08	T.	....	....	....	....	....	....	....	....	.64	T.	....	1.22
Elijah[2]	White	.07	.51	....	....	....	....	.09	....	....	....	....	....	....	....	....	....	....	....	....	.19	....	....	....	....	....	....	....	....	....	.65	....	1.51
Forsyth[2]	do	.06	.44	.05	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.16	....	....	....	....	....	....	....	....	....	.12	....	0.83
Galena[2]	do	....	.34	.10	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.03	....	....	....	....	....	....	....	....	....	.12	....	0.59
Granby[2]	do	.02	.27	.04	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.01	....	....	....	....	....	....	....	....	....	.08	....	0.42
Hailey	do	.24	T.	....	....	....	....	....	....	....	....	....	.07	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	*	.21	T.	0.52
Harrisonville[2]	Osage	....	.15	.34	....	....	....	....	....	....	....	....	.03	.03	....	....	....	....	....	....	T.	T.	....	....	....	....	....	....	....	....	.34	T.	0.89
Jefferson City[2] (A)	Missouri	....	.32	.11	.01	....	....	T.	....	....	....	....	T.	T.	....	....	....	....	....	....	.02	.02	....	....	....	....	....	....	....	....	.89	....	1.37
Jefferson City[2] (B)	do	....	.30	.11	T.	....	....	.04	....	....	....	....	T.	.01	T.	....	....	....	....	....	T.	.05	....	....	....	....	....	....	....	....	1.20	T.	1.71

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Stations	Drainage-basins	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Total
Southwestern Division—	*Concluded*																																
Joplin[1]	Neosho	T.	.27				.10													.04	T.									.40			0 81
Lakeside[2], [5]	Osage	T.	.28	.08	T.			.09					T.	.01	T.		T.				T.	.07									.19	T.	0.72
Lamar[2]	Neosho		.30										T.																		.48		0.78
Lebanon	Osage	.10	.33	.01								T.								.02	.22										.04		0.72
Lexington[2]	Missouri			.50																	T.								T.		.16		§0.66
Lockwood	Osage		.27														T.			T.	T.									.15	T.		0.42
Mansfield[2]	White		.30		.08																.19										.79		1.36
Marshall	Missouri	T.	.12	.12								T.	T.								.06									*	.70		1.00
Marshfield[2]	White	T.	.48	.05	T.	T.															.21										.20		0.94
Monett	Neosho	.02	.40		T.															.05	.01									T.	.02		0.50
Mountain Grove[2]	Gasconade	.01	.37																		.18										.18		0.74
Mount Vernon[2]	Neosho	.49	.04	.17	.03							T.	T.								.03	T.									.16		0 92
Neosho	....do	.05	.30					.05			.01						T.			.03	.02				T.					.36			0.82
Nevada	Osage	T.	.40	T.								T.	T.				T.			T.	T.									.16			0.56
Osceola[2]	....do	T.	.26	.05									.01								T.	.05									.20		0.57
Ozark[2]	White		.36	T.																	.17										.12		0.65
Ozark Beach[2]	....do		*	.42																	T.										.20		0.62
Pierce City[2]	Neosho		.50	T.																	.04										.15		0.69
Pineview Lookout[2]	White		*	*				.50													.03										.03		0.56
Pleasant Hill[2]	Osage		.11	.50									.02	.03			T.				T.	.08									.44	T.	1.18
Roby	Gasconade	.06	.26	.02				.07						.02						T.	.12									T.	.56		1.11
St. Thomas[2]. 2¼mi SW	Osage		.25	.09									T.	.02							T.	.03									.34		§0.73
Sedalia	Missouri	.02	.26	.06								T.	.06							.02	.11									.02	.25		0.80
Seligman[2]	Neosho		.40																		.06										.09		§0.55
Seymour[2]....3½ mi. NE	White	T.	.11	T.	T.	T.							T.		T.			T.			.30	T.									.21	T.	0.62
Shell Knob[2]...3 mi. SE	....do		.40		T.			T.					T.							T.	.08										.18		§0.66
SiloamSprgs Lookout[2].	....do	T.	.40										.12																		1.21		1.73
Springfield[1], [5]. 4 mi. NW	....do	.12	.19	T.	T.		.04	T.				T.	T.		T.		T.			.03	.01									.13	T.		0.52
Stover[2]	Missouri		.23	.06									.03								.03	.05									.09		0.49
Sugar Camp Lookout[2].	White		.40																		.06										.09		§0.55
Sweet Springs	Missouri	T.	.21	.26									.04								.17									.38	.09		1.15
Tecumseh[2]. ..¼ mi. W	White	.16	.40	.03																	.20										1.20	T.	§1.99
Topaz[2]	...do		.59											T.							.25										.85		1.69
Vanzant[2]....3¾ mi. SE	....do	T.	.56	T.										T.							.19										.36		1.11
Waco[2]	Spring																																....
Warrensburg	Missouri		.29	.10								T.	T.	T.	.02					T.	.01									.50	T.		0.92
Warsaw[2]..........(A)	Osage	T.	.35	.15				T.					T.								T.	.12			T.						.20		0.82
Warsaw[2]..........(B)	....do	T.	.32	.12				T.					T.	T.							T.	.08									.17		0.69
Wasola[2]	White	.20		.38																	.13										.40		1.11
Waverly[2]	Missouri		.15	.32	T.								T.	T.	T.		T.				T.	.08								T.	T.		0.55
Waynesville	Gasconade	.10	.08										.40							.02	.15									T.	T.		0.75
Wilderness Lookout[2]	White	.05	.45	T.									T.								.27										T.		0.77
Southeastern Division																																	
Advance[3].....¼ mile W	St. Francis	.17	.19	.01	T.		.01	.03				.02	T.	T.	.04	.22	.09			.05	.08	T.				T.			T.	.16	.05		1.12
Alton.......10 miles SE	Black	.09	.56					.11						.03		.07	.10				.40										.78		2.14
Annapolis[2].....7 mi. W	....do	T.	.61	.02	T.			.03						.01	.01		T.				.40					T.	T.				1.05		2.13
Arcadia[2]	St. Francis		.40	T.	T.								T.	T.							.49										1.05		1.94
Belleview[2]	Meramec		.53	.04	.02	T.		.02					T.	T.	.02						.44	.05				T.	T.				.65	T.	1.77
Bernie[2]	St. Francis	T	T.					.42							.11	.63	.11				.51	.08								.05	.31		2.22
Birch Tree[2] ...½ mile E	Black	.20	T.	.42									T.								.40	T.									.50		1.52
Black...... 9 miles NW	....do	.23	.36	.01				.02						.02						T.	.31										1.32		2.27
Bloomfield[2]	St. Francis	.03	.78	.04	T.	.01		.10					.08		.07	.62	.14				.58	.15									.30		2.90
Bunker[2]... 4 miles NW	Black	T.	.35	.35	.05							.05									.15										1.60		2.55
Campbell	St. Francis	.03	.82	.01				.11				.03	T.	.01	T.	.65	.05			.05	.70					T.				T.	.10		2.56
Cape Girardeau....(A)	Mississippi	.02	.45	.22	.03			.03				.03	T.	.03	.01	.50	.18				.40								T.	T.	.30		2.20
Cape Girardeau[2]...(B)	....do	.25	.32	.06	T			.03					.03	T.	.02	.51	.12				.34	.05									.04		1.77
Caruthersville[2]....(A)	....do	.11	1.10	.22		T.		.07					T.	T.	T.	.30	.15	T.	.07		.43					T.	T.				.55		3.00
Centerville(1)[2]	Black		.65												.02		T.				.37	.05									.80		1.89
Centerville(2)[2]	....do	T.	.61	.01	T.	T.		.03					T.	.02	T.						.35	.02				T.	T.				.93	T.	1.97
Clearwater Dam[2]	....do	T.	.35	T.				.05						.02	.01	.21					.50										1.13		2.27
Cook Station[2]	Meramec		*	*				.45													.10										.34		0.89
Crane Mountain[2]	St. Francis	T.	.65					.05						.03							.51					.01					.70		1.95
Crystal City	Mississippi	.21	.51	.02	T.							.02	.01	.01	T.	T.					.45						T.				.81		2.04
Cuba	Meramec	.06	.40	.01	T.			.07				T.	T.	T.			T.			T.	.11										.31		0.96
Deering[2]	St. Francis	.12	.93	.36		T.		.10		.03						.49	.13				.57										.25		2.98
De Soto	Mississippi	.20	.42	.43	T.			.04				T.	.01	T.		T.					.33										1.90		3.38
Dexter[2]	St. Francis	.12	.66	.22				.09					.07	.04	T.	.34	.08				.38	.03				T.	T.			T.	.32		2.35
Doniphan(1)	Black		T.	*				.60						.05		.14	.10				.15												1.04
Doniphan(2)[2]	....do	.40		.35									.05		.04	.09	.11				.30										.23		1.57
East End[2]	Meramec		.40					.03																							1.20		1.63
Eastwood Lookout[2]	Black	T.	.55	T.	T.	T.		T.					T.	.03		.07	.15	T.			.51										.88		§2.19
Ellington[2]	....do	T.	.36	.04										T.	.05						.39										.70		1.54
Ellsinore	....do	.03										.02		.03						.01	.85										1.00	T.	1.94
Farmington[2]	St. Francis		.60	.03	T.	T.		.02					T.	.02	T.	T.	T.				.62	.09									.91	T.	2.29
Fisk[2]	....do	.18	.65	.13				.10					.04	.02	.01	.19	.09				.31	.02									.30		2.04
Fredericktown[2]	....do		.64	T.	T.	T.		.04							.02	T.	T.				.64	T.									1.25		2.59
Gerald	Meramec	.01	.51	.09				.10													.09										.15		0.95
Greenville(1)	St. Francis	.02	.38	T.	T.						T.	T.	.03	T.	.11	.21				.25						T.					.84		1.94
Greenville[2](2)	....do	.03	.60	.04	T.	T.		.13	T.				T.	.01	.02	.15	.27			T.	.30	.01				T.					.75		2.31
High Lookout[2]	Black																																....
Jackson	Mississippi	.12	.45	T.	T.			.03				.02	T.	.05	.03	.22	.27			.02	.32	T.				T.	T.		T.	T.	.31		1.84
Jefferson Barracks	....do																																....
Jerome[2]	Gasconade		.46	.08									T.	.06							.28										.05		§0.93
Koshkonong[2]	Black	.25	.48	T.				.16						T.	T.	.10	.13				.30										1.66	T.	3.08
Leeper[2]	....do	.03	.62	.03	T.	T.		.04					T.	T.	.01	.16	.05				.54	T.				T.	T.			T.	.71		2.19
Licking[2]	Gasconade			T.	T.									.20							.10										.50	T.	0 80
Macedonia Lookout[2]	Black	.05	.02	.67	T.	T.		.06					.11	*	.04		.24				.30										.85	T.	2 34
Marble Hill	Mississippi	.30	.10	.08	.10			.05					.07	.08	.05	.21	.24			T.	.30					T.				T.	.27		1.85
Morehouse	....do	.14	.68	T.	T.			.07				.04	T.	T.		.64					.80										.07		2.44
Moselle[2]	Meramec																																....
New Madrid[2]	Mississippi	.08	.73	.56				.11					T.	.03		.44	.15				.72	.06				.03					.12		3.03
Oates Tower[2]	Black	T.	.45	.06	T.	T.		T.					.02	.01	T.						.29	T.									.38		1.21
Owensville[2]	Gasconade		.40	.03				.08					.03	.08							.07	.12									.08		§0.89
Pacific[2]	Meramec		*	*	.55			.03					.04								*	.27	T.								.85		§1.74
Parma[2]	St. Francis	.16	.64	.25	T.			.06					T.	T.		.40	.45				.50										.07		2.53
Perryville	Mississippi	.25	*					.50													.52										.90		2.17
Poplar Bluff[2]	Black	.04	.47	.02	T.	T.		T.					T.	T.	.01	.07	.09				.25	T.				T.	T.			T.	.11		1.06
Puxico[2]	St. Francis	.01	.60	.06	T.	T.		.06					.03	T.	T.	.10	.16				.23	.03									.42		1.70
Qulin[2]	....do	.06	.70	.07	T.	T.		.13				T.	.03	.02	.01	.23	.02				.30	T.				T.				T.	.35		1.92
Reynolds[2]	Black	.15	.45	T.				.04						.04	T.						.01										.58		1.27
Richwoods[2]	Meramec		.43	.06	T.			.07					*	.10							.14	T.									.30		1.10
Rolla[2]	....do	T.	.30	.05	.14			.10					.05	.03	T.			T.			.08	.03									.50	T.	1.28
Round Spring[2]	Black		.64																			.12									.71		1.47

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Stations	Drainage-basins	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Total
Southeastern Division —	*Concluded*																																
St. Louis:																																	
City Office[1], [5]	Mississippi	.22	.43	.01	T.	....	....	.05	....	T.	....	.01	.01	.01	T.	.02	T.	....	....	.06	.15	.01	....	....	....	....	....	....	T.	1.25	T.	....	2.23
Airport[3], [5]	Missouri	.19	.33	.02	T.	....	T.	.04	....	T.	....	T.	T.	T.	....	T.	T.	....	....	T.	.09	T.	....	....	....	T.	....	....	....	1.41	T.	....	2.08
St. Louis Univ.[1], [5]	Mississippi	.07	.02	.10	T.	....	....	.04	....	....	....	.02	.01	.01	T.	.06	.01	....	....	.15	.28	....	....	....	....	T.	....	....	....	1.36	T.	....	2.13
Washington Univ.[2]	....do	....	.41	....	.06	....	....	.14	....	....	....	....	....	.03	....	....	....	....	....	....	.24	.05	....	....	....	....	....	....	....	....	.73	....	1.66
Salem	Meramec	.10	.12	....	....	....	....	.06	....	....	....	T.	.03	....	....	....	....	....	....	T.	.12	....	....	....	....	....	....	....	....	....	.54	....	0.97
Sikeston[2]	Mississippi	.08	.78	.21	*T.*	*T.*	....	.08	....	....	....	....	.04	.03	.01	.65	.06	....	....	....	.82	.06	....	....	....	....	T.	....	....	....	.08	....	2.90
Steelville[2] ...2½ mi. NE	Meramec	....	.04	.10	....	....	....	.10	....	....	....	....	....	....	....	....	....	....	....	....	.12	....	....	....	....	....	....	....	....	....	.65	....	1.01
Sullivan[2]	....do	....	.45	.04	.01	....	....	....	....	....	....	....	.06	.01	....	....	T.	T.	....	....	.06	.06	....	....	....	....	....	....	....	....	.78	T.	1.47
Summersville[2]	Black	T.	.65	*T.*	*T.*	....	....	T.	....	....	....	....	....	*T.*	*T.*	*T.*	*T.*	....	....	....	.16	....	....	....	....	....	....	....	....	....	1.32	*T.*	2.13
Union[2] ....1½ mi. SE	Meramec	....	.45	.06	.01	....	....	....	....	....	....	....	.02	*T.*	....	....	....	....	....	....	.04	.02	....	....	....	....	....	....	....	....	.62	.01	1.23
Valley Park[2]	....do	....	.63	.05	.04	....	....	.03	....	T.	....	....	.02	T.	T.	....	....	....	....	....	.13	T.	....	....	.04	....	....	....	....	....	.58	....	1 52
Van Buren[2]	Black	.08	.42	T.	T.	....	....	.05	....	....	....	....	....	....	T.	.16	....	....	....	....	.45	....	....	....	....	....	....	....	....	....	.96	....	2.12
Vichy[3] ..... 2 miles NW	Meramec	.24	.26	.02	....	....	T.	T.	....	....	....	T.	T.	T.	....	....	T.	....	....	.05	.03	T.	....	....	....	....	....	....	....	.08	T.	....	0.68
Wappapello Dam[2]	St. Francis	.08	.71	.03	*T.*	*T.*	....	.08	....	....	....	....	.03	.02	.01	.17	.16	....	....	....	.25	.03	....	....	....	T.	T.	....	....	....	.24	....	1.81
Webster Groves	Mississippi	.10	.47	T.	....	....	....	.07	....	....	....	T.	.02	....	....	....	....	....	....	....	.31	....	....	....	....	....	....	....	....	.10	.67	....	1.74
Weingarten	....do	*	*	*	....	....	....	.40	....	....	....	....	....	....	....	....	....	....	....	....	.40	....	....	....	....	....	....	....	....	....	1.02	....	1.82
West Plains[3]	Black	.22	.35	T.	T.	....	T.	.04	....	....	....	T.	T	T.	....	T.	T.	....	....	.30	.01	....	....	....	....	....	....	....	....	.30	T.	....	1.22
Williamsville[2]	....do	*T.*	.26	.09	.25	*T.*	....	.04	....	....	....	....	*T.*	*T.*	....	....	.46	....	*T.*	....	....	....	.20	....	....	....	....	....	....	....	.66	....	1.96
Willow Springs[2] 500 ft E	White	*	.59	....	....	....	....	....	....	....	....	....	....	*T.*	....	....	....	....	....	....	.28	....	....	....	....	....	....	....	....	....	1.19	....	2.06
Winona Ranger Sta.[2]	Black	T.	.20	.10	....	....	....	.10	....	....	....	....	T.	T.	.05	....	....	....	....	....	.30	....	....	....	....	....	....	....	....	....	.70	....	1.45
Zalma[2]	Mississippi	T.	.43	.12	T.	....	....	.07	....	....	....	....	....	.03	.02	.26	.18	....	....	....	.23	.02	....	....	....	....	....	....	....	....	.34	....	1.70
Cairo, Ill.[1], [5]	....do	.22	.65	T.	T.	T.	T.	.03	....	....	....	.01	T.	.05	.02	.57	.03	....	....	.37	.54	....	....	....	T	.07	....	....	T.	.16	.08	....	2.80
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....

Except as otherwise indicated, amounts are for 24 hours ending late in afternoon. [1] Midnight to midnight. [2] Measured in the morning; for the preceding 24 hours. [3] Data for 24 hours ending 12:30 A. M. (C. S. T.) of following day. [5] Recording gage. T. Trace or 0.005 inch or less. * Included in next measurement. // Windshield on gage. Italics data interpolated. § Partly interpolated. (A) Record from cooperative station gage. (B) Record from river station gage. (C) Airport.
‡ Received too late to be included in means and extremes.

Daily Evaporation (inches), Mean Temperature (F°), and Wind Movement (miles) for January 1947

(See precipitation data in daily precipitation table)

Station	Data	Day of month																															Monthly
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Columbia (Univ. of Mo. Hort. Exp. Sta. 9 mi. WNW.)	Evaporation	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.....
	Mean temperature	12	20	13	0	10	21	35	34	32	41	42	38	48	48	38	32	32	36	33	34	18	32	45	47	44	44	46	38	50	36	25	33.0
	Wind movement	28	103	152	74	86	88	134	90	35	163	140	39	132	119	49	123	6	6	8	106	148	76	110	136	56	83	66	110	80	242	98	2,886
Lakeside (Osage Dam)	Evaporation	....	....	....	....	....	....	....	....	....	....	.206	.036	.031	.104	.096	.077	*	.117	....	....	*	*	.231	.036	.077	.051	.088	.084	.061	.226	*	.....
	Mean temperature	18	20	16	10	14	26	30	38	35	40	41	42	50	50	43	34	33	36	36	33	28	36	44	52	46	44	48	42	54	42	28	35.6
	Wind movement	80	22	101	97	63	114	87	37	31	26	114	46	89	159	32	101	26	10	24	30	162	66	80	80	42	40	28	55	79	198	215	2,334
St. Louis (Washington University)	Evaporation	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.009	*	*	*	.057	*	*	*	.076	.080	.053	.077	.088	.047	.069	....	.....
	Mean temperature	20	24	16	10	16	24	30	37	36	43	45	40	47	51	42	35	32	36	36	35	18	30	42	52	50	45	48	40	50	36	28	35.2
	Wind movement	82	64	68	59	24	41	60	39	43	35	54	42	38	69	76	53	41	12	9	21	78	58	30	50	36	44	48	80	52	71	78	1,555

Observations taken at 8:00 a. m. except at 5:00 p. m. at Columbia. For Lakeside and St. Louis (Washington University) descriptions see April 1932 and August 1938 reports, respectively. * Included in next measurement.

Daily Temperatures for January 1947

Stations		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Northern Division																																	
Brunswick /	Maximum ..	22	22	10	12	23	36	44	44	44	51	42	42	58	52	41	36	48	52	48	41	27	47	55	60	58	60	53	41	38	32	33	41.0
	Minimum ..	1	7	5	-20	-18	-2	10	24	25	21	35	33	33	41	30	24	23	22	23	26	9	9	26	35	33	27	28	29	30	31	15	19.8
Chillicothe Airport	Maximum ..	21	22	9	11	24	30	40	44	40	50	40	40	55	54	36	35	44	51	47	36	23	45	53	59	57	58	50	38	38	34	33	39.3
	Minimum ..	-1	6	-10	-18	-5	8	24	25	22	34	32	31	39	30	26	20	23	24	24	22	6	20	31	35	33	26	28	29	32	17	10	20.1
Columbia	Maximum ..	23	24	15	14	26	37	43	45	44	55	42	43	57	57	47	38	44	52	44	38	29	50	61	60	56	60	56	45	64	46	36	43.6
	Minimum ..	5	15	6	-6	-1	15	30	26	26	33	37	36	42	37	31	26	24	24	31	26	9	21	38	38	37	29	35	31	42	20	16	25.1
Fayette	Maximum ..	21	22	19	12	22	33	44	45	44	52	46	42	58	54	44	41	47	51	40	38	29	51	58	60	57	59	54	44	51	42	35	42.4
	Minimum ..	1	17	5	-12	-10	8	28	26	24	28	36	33	41	40	36	24	21	21	23	26	6	15	30	36	31	26	38	28	36	24	14	22.6
Grant City	Maximum ..	18	18	10	8	30	30	37	41	40	46	41	38	51	52	41	36	47	56	47	36	30	44	58	58	55	59	52	35	35	30	28	38.9
	Minimum ..	-7	8	-5	-19	-4	3	17	18	20	30	31	30	32	30	20	11	22	28	25	24	2	15	30	32	35	30	30	30	30	20	6	21.7
Hannibal	Maximum ..	23	24	16	14	22	34	40	41	40	50	43	40	53	55	42	34	43	50	44	38	30	43	55	56	55	55	52	38	40	39	33	40.1
	Minimum ..	-1	14	2	-10	-1	14	30	29	25	31	31	29	39	36	30	24	25	27	26	25	3	14	31	39	37	29	32	27	33	22	15	22.8
Kansas City Airport	Maximum ..	24	22	8	13	26	36	43	46	45	52	43	44	61	57	42	37	46	54	45	39	31	54	55	62	58	60	52	46	39	34	36	42.3
	Minimum ..	5	6	-5	-10	1	10	29	29	24	38	38	34	43	34	26	20	27	28	25	27	12	27	38	37	38	33	33	32	34	20	16	24.2
Kirksville	Maximum ..	20	20	15	12	21	31	44	40	42	51	45	38	56	*53*	35	*33*	*44*	*51*	*47*	39	27	*43*	*51*	*56*	*56*	*55*	50	*35*	34	*32*	33	39.0
	Minimum ..	-5	15	3	-13	-1	10	26	26	23	32	33	21	33	34	30	29	23	26	25	27	2	11	28	36	36	28	29	27	30	22	12	21.2
Lawson	Maximum ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
	Minimum ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
Louisiana	Maximum ..	21	27	24	18	24	34	41	41	42	52	48	41	50	56	45	40	44	53	44	40	32	45	58	57	58	57	59	46	45	48	34	42.7
	Minimum ..	1	20	12	-12	-9	4	28	27	27	25	38	33	40	40	26	26	21	22	22	30	7	11	25	41	31	27	45	29	35	27	12	22.9
Macon /	Maximum ..	21	22	13	10	20	33	42	43	47	50	40	41	55	50	38	35	46	52	47	36	25	36	53	57	57	58	53	37	35	31	32	39.2
	Minimum ..	-3	3	7	-13	-12	1	12	27	22	22	36	27	30	39	29	22	22	24	23	24	3	4	24	35	38	29	30	27	28	30	13	19.5
Maryville	Maximum ..	19	18	7	9	30	31	40	43	43	45	43	37	52	51	35	36	49	53	48	38	26	46	56	58	55	57	53	36	32	30	27	38.8
	Minimum ..	-2	7	-7	-18	-4	10	18	22	17	32	29	28	33	27	24	11	20	24	24	24	5	18	28	30	35	26	36	27	30	17	6	18.6
Mexico /	Maximum ..	21	25	14	16	22	38	45	41	42	51	41	43	55	49	43	35	43	50	46	37	25	48	58	59	46	57	54	41	48	32	35	40.6
	Minimum ..	2	7	8	-11	-10	0	14	28	21	21	37	34	33	42	30	26	24	25	29	29	6	6	25	35	36	30	33	28	27	29	15	21.3
Moberly /	Maximum ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
	Minimum ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
Oregon	Maximum ..	20	20	10	8	33	35	42	48	42	47	45	38	56	49	40	39	47	54	47	38	33	52	58	63	58	60	49	39	35	33	32	41.0
	Minimum ..	0	9	-7	-17	-2	13	22	26	22	35	31	29	34	30	26	13	25	26	30	24	6	6	32	34	39	30	38	29	31	19	7	20.6
St. Charles /	Maximum ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
	Minimum ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
St. Joseph	Maximum ..	21	21	7	12	31	35	40	45	45	51	43	40	57	48	39	38	47	55	45	37	25	55	59	62	55	61	52	39	37	35	32	40.9
	Minimum ..	2	3	-4	-15	0	13	25	29	23	38	35	32	39	34	21	17	27	27	32	24	8	24	34	35	34	31	33	31	32	16	12	22.3
Trenton	Maximum ..	18	22	18	12	26	30	44	45	45	52	46	40	55	51	36	38	47	56	50	36	38	47	56	62	58	59	51	36	33	29	29	40.8
	Minimum ..	2	0	-1	-17	-6	12	21	24	*23*	34	29	32	34	31	*28*	20	24	24	30	*25*	*5*	*20*	35	35	*39*	*28*	28	30	29	*18*	9	20.8
Unionville /	Maximum ..	20	19	7	9	22	29	39	40	42	47	45	40	52	47	34	35	45	54	49	34	22	45	54	56	56	56	48	35	32	30	33	37.9
	Minimum ..	-7	0	0	-16	-16	2	9	25	20	20	34	25	26	35	29	17	16	23	25	25	0	0	20	31	33	28	30	24	23	28	9	16.7
Warrenton	Maximum ..	21	25	27	18	27	35	40	43	42	55	53	42	54	56	45	45	43	50	44	42	30	53	62	63	61	59	61	54	68	66	38	45.9
	Minimum ..	5	18	10	-7	-2	11	30	27	22	24	38	35	39	41	33	27	19	20	25	26	8	10	25	42	34	29	43	27	40	26	12	23.7
Keokuk, Iowa	Maximum ..	20	23	17	15	21	33	39	38	38	48	45	36	53	54	38	34	46	52	46	40	18	38	51	53	54	55	48	37	37	34	31	38.5
	Minimum ..	-3	16	5	-10	5	17	30	29	23	36	36	29	35	36	31	23	29	31	33	18	4	11	35	38	40	34	34	29	34	22	18	24.1
Southwestern Division																																	
Clinton	Maximum ..	25	24	10	14	25	39	42	47	47	53	41	44	63	55	47	37	43	54	46	38	29	55	59	57	59	62	55	55	74	42	40	44.5
	Minimum ..	10	10	-5	-13	-7	8	28	25	26	32	36	37	42	35	31	25	24	25	27	29	14	19	38	36	31	27	33	33	42	21	16	23.7
Eldon	Maximum ..	24	24	28	18	28	40	43	46	46	56	54	44	58	60	50	50	43	52	52	42	34	58	64	65	64	63	61	51	73	67	38	48.1
	Minimum ..	8	20	5	-7	0	11	30	28	30	32	36	37	44	42	35	26	24	26	28	28	12	17	37	42	36	30	38	29	46	26	15	26.2
Harrisonville /	Maximum ..	24	23	12	15	26	38	43	44	45	52	42	44	63	50	41	41	48	53	43	43	30	55	59	61	60	61	56	50	52	25	33	43.0
	Minimum ..	3	11	-1	-13	-13	-1	6	24	25	28	32	37	38	37	32	22	21	23	27	28	11	12	24	33	33	27	34	29	31	23	13	20.5
Jefferson City	Maximum ..	24	24	17	16	28	38	40	45	45	56	47	44	58	58	48	45	41	49	43	40	31	53	61	63	61	62	59	46	74	59	38	45.6
	Minimum ..	7	15	7	-7	-5	9	29	26	25	29	37	36	41	42	31	27	20	21	21	29	11	16	28	36	30	26	37	30	41	25	15	23.7
Joplin	Maximum ..	28	26	12	13	25	38	39	48	49	52	46	48	65	60	57	38	40	50	42	40	33	54	57	63	63	64	59	65	75	39	52	46.5
	Minimum ..	16	12	-1	-4	2	14	33	32	32	38	40	42	47	46	38	27	30	33	36	29	24	30	47	49	44	34	41	38	39	25	20	30.1
Lamar /	Maximum ..	28	25	15	18	25	40	40	52	50	54	44	50	67	51	54	39	45	52	43	41	37	55	56	64	65	65	59	60	76	35	48	46.9
	Minimum ..	11	12	2	-11	-11	-4	10	26	25	25	35	38	38	43	41	25	25	26	27	32	20	20	34	41	35	28	29	33	34	25	16	23.5
Lebanon	Maximum ..	28	26	24	23	26	34	37	47	47	53	49	46	55	56	54	52	40	52	46	41	32	56	57	64	63	61	62	54	74	69	45	47.5
	Minimum ..	11	21	5	-5	3	11	31	28	23	31	35	38	40	42	40	27	24	23	27	29	15	17	38	43	36	29	41	30	44	24	13	26.3
Lexington /	Maximum ..	16	14	12	10	23	38	47	49	49	55	50	56	65	55	42	40	50	56	56	40	42	54	60	64	62	60	57	45	*40*	30	*35*	44.3
	Minimum ..	8	6	0	-8	-5	2	14	28	26	35	40	34	29	36	34	27	21	29	28	31	9	18	32	38	38	32	32	29	34	30	15	23.3
Marshall	Maximum ..	23	22	19	13	22	37	43	44	44	53	50	42	61	58	45	36	47	53	47	43	31	52	59	60	58	58	52	47	44	43	35	43.3
	Minimum ..	3	18	4	-11	-5	12	29	24	25	32	36	34	41	40	31	24	25	27	28	22	9	19	29	38	35	30	41	30	37	24	16	24.1
Mountain Grove	Maximum ..	27	28	28	20	26	30	37	47	44	54	52	44	52	56	50	50	38	50	45	40	32	55	60	64	59	60	64	56	71	66	42	46.7
	Minimum ..	14	24	7	1	8	14	28	29	28	28	34	38	40	45	40	29	26	25	32	30	19	20	36	41	44	30	40	32	40	24	15	27.8
Neosho	Maximum ..	33	31	25	21	30	40	41	51	50	55	51	58	65	61	62	52	41	50	48	42	43	58	61	66	65	67	63	63	75	57	55	51.0
	Minimum ..	18	24	5	-3	-5	8	30	22	22	29	37	40	46	46	40	28	27	25	27	32	26	20	42	43	35	26	37	38	54	24	15	27.7
Nevada	Maximum ..	27	27	17	18	26	42	41	49	48	53	48	44	66	61	51	45	43	54	47	40	35	56	57	60	62	62	62	58	75	60	46	47.7
	Minimum ..	11	17	0	-18	-8	6	29	26	22	33	37	38	41	43	37	25	24	26	27	31	18	23	38	36	33	30	37	30	45	24	15	25.0
Sedalia	Maximum ..	22	22	18	12	23	38	40	43	44	51	47	43	61	59	45	38	44	52	46	42	31	52	54	56	56	69	56	47	71	53	37	44.3
	Minimum ..	6	18	2	-13	-2	14	30	28	24	34	36	37	41	40	36	24	24	27	28	29	10	20	38	39	36	29	38	32	39	26	15	25.3
Springfield....4 mi. NW	Maximum ..	28	25	14	16	25	32	37	46	48	52	44	44	61	54	57	35	39	49	43	38	29	55	58	62	61	63	61	49	74	46	44	44.8
	Minimum ..	17	14	-1	-1	0	10	29	28	27	30	33	39	43	43	35	26	26	28	31	26	19	23	39	40	37	29	38	34	46	22	15	26.6
Warrensburg	Maximum ..	22	22	17	13	22	36	41	44	43	52	50	42	61	58	44	38	45	52	50	42	32	51	58	56	57	59	55	48	51	57	38	43.7
	Minimum ..	4	17	2	-10	-4	11	30	26	27	34	36	37	41	40	33	24	26	29	29	28	11	21	37	36	36	30	39	30	39	24	11	25.0
Southeastern Division																																	
Arcadia /	Maximum ..	31	34	17	24	31	33	40	49	45	46	56	43	61	64	50	39	40	50	45	44	28	56	62	66	56	60	68	54	70	41	42	46.6
	Minimum ..	9	16	12	9	9	13	13	30	29	23	22	28	37	41	42	34	26	19	24	29	19	15	17	36	46	29	28	30	32	39	18	25.0
Birch Tree.... ½ mile E	Maximum ..	27	31	31	20	28	30	40	51	45	54	50	47	50	62	48	49	47	51	44	44	32	57	60	63	59	61	68	61	73	67	44	48.2
	Minimum ..	16	26	11	7	13	11	26	26	28	21	33	39	40	44	46	32	28	25	34	32	15	14	30	44	49	26	38	34	41	28	14	28.1
Caruthersville	Maximum ..	33	37	38	27	34	38	45	50	50	50	45	47	59	70	67	55	41	49	47	51	45	48	55	54	62	61	73	65	72	71	43	51.0
	Minimum ..	25	31	21	19	20	23	33	30	30	27	30	38	42	54	47	39	34	35	40	40	28	22	35	46	48	37	41	41	52	40	25	34.6
Crystal City	Maximum ..	23	30	29	26	34	35	39	47	45	58	54	46	52	64	50	48	38	48	45	42	34	56	65	68	63	62	67	59	70	68	40	48.5
	Minimum ..	14	23	14	6	13	16	81	28	27	28	37	36	40	47	40	33	25	21	28	32	15	15	27	44	39	29	37	29	41	31	20	27.9
Doniphan	Maximum ..	30	33	33	24	34	35	45	57	48	57	51	44	68	68	54	50	41	50	44	52	37	56	60	57	59	62	71	61	73	72	47	50.7
	Minimum ..	21	29	17	14	18	15	30	24	24	19	32	37	43	44	45	38	32	26	36	33	19	13	25	46	48	26	31	37	38	33	15	29.3
Farmington	Maximum ..	23	30	27	21	30	32	38	45	43	55	52	46	49	63	49	48	38	48	45	45	31	55	60	63	61	60	66	57	68	65	40	46.9
	Minimum ..	13	21	12	7	16	15	28	32	30	25	34	36	39	47	40	32	26	23	29	30	15	15	33	42	47	33	37	30	43	29	12	28.1
Jackson	Maximum ..	29	32	32	22	31	32	38	48	43	50	43	43	52	64	50	49	39	49	44	46	33	45	58	57	54	58	67	62	69	69	43	46.8
	Minimum ..	21	28	18	15	17	18	31	27	26	22	31	38	41	50	41	35	30	26	31	33	21	16	31	42	47	32	38	34	47	33	21	30.4
Poplar Bluff	Maximum ..	29	33	32	25	33	34	45	55	48	52	50	45	54	67	55	50	40	49	44	51	36	48	59	55	55	61	69	60	70	68	45	48.9
	Minimum ..	21	27	20	15	18	19	31	27	29	24	32	36	43	52	43	40	32	30	38	36	25	18	31	47	45	30	33	36	42	35	22	31.5
Rolla /	Maximum ..	25	25	9	19	25	34	31	45	40	49	40	43	53	45	44	29	37	48	44	39	32	52	55	60	58	60	56	59	68	29	34	41.5
	Minimum ..	10	16	7	-2	0	12	15	28	26	29	35	36	37	42	38	28	25	25	28	34	12	15	31	45	40	32	40	30	36	28	16	25.6
St. Louis	Maximum ..	25	30	22	18	30	33	40	43	41	57	50	42	57	60	47	41	40	47	44	40	30	46	63	65	61	57	62	47	67	57	39	45.2
	Minimum ..	12	22	12	5	14	22	31	33	30	31	39	38	41	43	39	31	30	31	36	29	11	19	34	45	44	37	39	32	47	25	21	29.8
Salem	Maximum ..	25	28	25	23	30	33	38	46	43	55	52	43	51	59	50	49	38	51	45	43	28	57	59	65	60	62	65	53	73	67	40	47.0
	Minimum ..	13	23	9	0	11	14	30	29	26	28	32	37	39	45	41	30	24	19	27	27	15	16	23	42	42	27	41	32	44	26	15	26.7
Sikeston /	Maximum ..	33	33	25	25	32	35	42	48	43	49	43	45	59	65	53	42	39	49	44	51	31	45	59	55	59	59	70	60	70	52	53	48.0
	Minimum ..	21	25	24	17	18	20	22	29	29	28	28	34	39	44	44	41	32	29	30	37	27	19	20	35	45	34	39	36	36	51	22	30.8
Union........1½ mi. SE	Maximum ..	23	28	28	17	29	36	39	43	40	55	50	44	56	60	48	46	39	44	42	42	32	52	60	66	62	59	61	50	72	67	36	46.0
	Minimum ..	10	21	11	-2	1	11	31	28	25	23	38	37	40	44	37	30	23	20	23	30	13	14	25	45	31	31	37	28	44	28	18	25.6
West Plains	Maximum ..	29	32	25	25	30	32	41	52	45	56	50	43	57	61	51	49	42	51	44	46	33	59	60	63	59	62	67	46	74	55	47	47.9
	Minimum ..	17	25	7	6	12	14	24	25	24	20	34	36	42	47	44	31	24	23	36	25	16	15	27	44	40	26	31	36	42	26	15	26.9
Cairo, Ill.	Maximum ..	33	35	32	22	29	36	41	47	42	48	45	45	56	65	54	54	40	48	45	50	31	42	55	54	57	56	69	56	71	63	39	47.1
	Minimum ..	26	32	20	19	20	23	33	31	31	30	35	40	44	51	44	34	33	33	39	30	23	21	35	47	50	38	43	39	55	31	26	34.1

/ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs. ᵃ, ᵇ, ᶜ, etc., number of days missing, for example, ᵇ indicates two days missing. Italics data interpolated. § Partly interpolated.

Missouri Storms, January 1947

County	Date	Time	Nature of storm	Storm moved from	Width of path (miles)	Length of path (miles)	Loss of life	Property damage (estimated)	Remarks
Howell, Oregon, Shannon and Carter	29	6:00 p.m. to 7:30 p.m.	Tornadoes	sw.	¼ to 1¼	Varied from 6 to 45	6	Not reported	A group of four separate tornadoes which struck the extreme south-central portion of Missouri during the early evening of January 29th killed 6 persons, injured 25 others, destroyed 173 buildings and damaged 257 others, killed 34 head of cattle, 10 sheep and 17 other animals, 1,800 chickens and other poultry and destroyed or damaged much timber. All of the storms occurred in sparsely settled farm communities and timbered areas, no towns or cities being hit, except the residential area of West Plains. The movement of each of the tornadoes was from the southwest to northeast over paths of varying width and length. One tornado and the first of the four to develop and strike the State crossed the Missouri-Arkansas boundary at a point about 13 miles west of Thayer, Mo. at about 6:15 p. m. and moved northeastward through timber land to about 3 miles southwest of Koshkonong where it lifted and disappeared. This was the same tornado that struck the town of Salem, Ark. at about 6:00 p. m. and resulted in severe damage at that place. In Missouri the damage from this tornado was to timber and some barns. A second tornado struck 2 miles north of Pomona at approximately 6:00 p. m. and moved northeastward a distance of about 6 miles where it lifted and disappeared before reaching highway 60, east of Hutton Valley. Several houses and barns were either completely destroyed or badly damaged by this storm, and one person was injured. The third of the group of tornadoes also struck at about 6:00 p. m. about 4 miles southeast of Thayer and moved northeastward to near Van Buren, a distance of approximately 45 miles, over a path about one mile wide. One person was killed by this storm and 19 were injured. The Red Cross reported 115 buildings destroyed and 215 damaged in Oregon County and damage to buildings and timber in Carter County by this storm as well as 32 head of livestock and 1,200 head of poultry killed in Oregon County. At about 7:00 p. m. the fourth and last of the series of tornadoes struck 8 miles south of Mountain View and ½ mile west of the Shannon-Howell County boundary and moved northeastward to within 3 miles south of Teresita and crossed highway 60 one mile west of Montier, thence to Alley Springs and to the north of Eminence before it lifted and disappeared, a total distance of about 30 miles. Five persons were killed and five were injured by this tornado in the Montier area. Fifty-eight buildings were destroyed, 42 others damaged, 29 head of livestock and 600 head of poultry killed according to Red Cross reports. Damage in the Winona Forest Service district was estimated at $20,000. (Acknowledgement for descriptive accounts of these tornadoes is hereby made to Mr. K. R. Kiser, Field Inspector of the K. C. R. O. who was on inspection duty in the area at the time they occurred).
Butler, Crawford, St. Louis, and City of St. Louis........	29	Early evening and during night	Wind and thunderstorms	sw.	....	....	1	Total damage unknown but in excess of $150,000	High, gusty winds accompanied by thunderstorms occurred over a large portion of the State and particularly the southeastern quarter and resulted in the death of one person and injury to at least two others with extensive property damage. Practically no crop damage, other than to trees, occurred due to to the season of year. Near Steelville one woman was burned to death when her home was collapsed by the wind and it caught fire. Another person in that area was injured. At Poplar Bluff damage to one house and several outbuildings was estimated at $1,200. At St. Louis and in St. Louis County heavy damage was done to buildings, many plate glass windows, power and communication lines and poles, trees, roofs, billboards and signs. At Affton the damage was estimated at more than $100,000. One person was injured slightly in the City of St. Louis. The storm extended northeastward into Illinois.
Cass...............	29	5:05 p.m. to 5:15 p.m.	Heavy hail	w.	1	Unknown	0	$50	Storm struck Pleasant Hill over an area of about one square mile and was accompanied by high wind. Stones were ⅜ inch in diameter and covered the ground to a depth of 1½ inches. Roofs were damaged slightly and holes were torn in old automobile tops. No glass was broken due to small size of the stones. There was no crop damage.

WBO, St. Louis, 5-19-47—1000.

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U. S. DEPARTMENT OF COMMERCE, WEATHER BUREAU

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CLIMATOLOGICAL DATA

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MISSOURI SECTION

H. F. WAHLGREN
ST. LOUIS, MO.

Vol. LI	February 1947	No. 2

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GENERAL SUMMARY

This was the driest February in the 60 years that State-wide records have been kept; also, it was the coldest month of its name since 1936. Only one other month, November 1904, has averaged drier than the current month, since the climatic history of the State began in 1888. Precipitation for the first two months of the current year averaged 1.56 inches, the second driest January and February, combined, of record; the driest comparable two consecutive months was in 1943, when the average precipitation was only 1.33 inches.

Temperature extremes were not unusual during the month, being well within the extremes of past Februarys. However, the averages for the month ranged from 4.0° to 6.0° below normal in each of the three divisions of the State and at some individual stations the monthly average was 9.0°, or more, below normal. The averages and departures by divisions were as follows: —Northern 25.7°, —4.2°; Southwestern 30.1°, —4.2°; Southeastern 30.7°, —6.2°; for the State 28.8°, —4.5°. The 13th, 14th, 15th, and 16th were the warmest days during the month and the 7th, 8th, 9th, and 10th the coldest days. The average number of days, with minimum temperature 32°, or lower, was 26.

Precipitation during the month occurred almost entirely in the form of snow. Many stations, particularly in the Northern Division, did not have measurable precipitation until the 28th, when the only general precipitation of the month occurred. Several stations in the northeastern quarter of the State reported no precipitation at all during the entire month. Snowfall during February was light and quickly melted, and the ground was not covered for more than one day at any place, as a rule. On the 28th, a general heavy snowfall began, which continued into March, with depths ranging up to 6 and 7 inches in some central sections of the State, before it ended. The distribution of the month's precipitation and departure from normal, by divisions, was as follow: —Northern 0.11 inch, —1.45 inches; Southwestern 0.31 inch, —1.67 inches; Southeastern 0.35 inch, —2.37 inches; for the State 0.26 inch, —1.83 inches.

There were no damaging storms of any kind during the month and no floods occurred in any of the major streams of the State.

The dry cold weather was favorable for seasonal outdoor work. A few oats were sown, locally, the latter part of the month. Wheat was apparently in good condition at the close of February, but remained dormant, generally, throughout most of the month. The low temperatures also kept fruit buds dormant during February. The absence of snow cover permitted grazing and foraging of livestock throughout most of the month, except when fields were muddy from alternate thawing and freezing. Water supplies were getting low in some areas of the State as the month closed and more moisture was needed quite generally.—M. R. W.

(Continued on page 11)

PRESSURE, WIND, HUMIDITY, AND SUNSHINE

Stations	Sea-level pressure, extremes-inches: Highest	Date	Lowest	Date	Wind: Average hourly velocity	Maximum velocity ¶	Direction of maximum	Date	Relative humidity: 12:30 a. m.	6:30 a. m.	12:30 p. m.	6:30 p. m.	Percentage of sunshine	Degree days
Columbia	30.58*	1	29.46*	6	9.0	28	nw.	3	62*	69*	48*	51*	59	1029
K. C. Airport	30.63	1	29.53	6	13.2	45	nw.	6	63	71	52	50	48	1007
St. Joseph	30.63*	1	29.52*	6	10.6	38	nw.	6	67*	76*	53*	54*	59	1062
St. Louis	30.58*	2	29.43*	6	13.2	33	sw.	3	68*	69	54	62*	48	1020
Springfield	30.58	1	29.55	6	13.1	42	w.	6	72	79	57	60	69	1016
Cairo, Ill.	30.62	2	29.46	6	10.1	29	nw.	1	..	71	52	..	64	916
....	.....	..	.....	..	....	..	......	..	..	..	..	..	..	....

* Data for Airport station. ¶ For 5-minute period.

COMPARATIVE DATA FOR FEBRUARY

Year	Temperature: Average for State	Highest	Lowest	Precipitation: Average for State	Average, Northern Division	Average, Southwestern Division	Average, Southeastern Division	Snowfall, Average for State	Number of days: Precip. .01 inch or more	Clear	Partly cloudy	Cloudy
1888	33.0	73	−17	2.22	2.04	2.22	2.39	....	7	..	..	..
1889	29.3	73	− 9	2.74	1.80	3.12	3.30	....	7	..	..	..
1890	35.5	81	− 8	2.71	1.12	2.04	4.97	....	7	..	..	..
1891	32.7	78	−13	2.45	2.05	2.33	2.96	2.4	6	..	..	..
1892	37.7	71	2	4.31	3.47	5.40	4.06	....	9	7	6	16
1893	27.9	65	−20	2.17	2.02	1.49	2.99	4.6	6	10	7	11
1894	30.8	72	−12	2.70	2.15	2.01	3.93	11.2	6	10	8	10
1895	23.6	77	−26	0.57	0.48	0.55	0.67	3.3	5	10	10	8
1896	35.6	81	−10	1.67	1.50	1.22	2.30	4.1	5	12	8	9
1897	34.8	74	−15	2.51	1.47	2.79	3.27	8.2	7	7	7	14
1898	35.4	78	− 9	1.61	1.54	1.47	1.81	0.8	5	13	6	9
1899	20.4	72	−32	2.30	1.75	2.06	3.10	5.8	6	12	8	8
1900	26.2	70	−16	4.00	3.87	3.35	4.77	16.6	10	10	6	12
1901	28.1	76	−19	1.74	1.41	1.51	2.31	7.6	6	13	7	8
1902	24.0	72	−17	1.62	0.89	2.10	1.88	5.5	5	11	8	9
1903	29.8	74	−25	3.25	1.98	3.34	4.42	5.8	7	11	6	11
1904	30.0	82	−18	1.02	0.64	0.63	1.78	1.5	5	11	8	10
1905	21.5	69	−40	1.68	1.72	1.69	1.63	13.2	8	11	6	11
1906	33.7	73	−13	2.42	2.66	2.17	2.43	4.8	7	15	6	7
1907	34.8	77	−15	1.28	0.79	0.92	2.12	4.5	6	12	5	11
1908	35.6	78	− 7	4.32	2.83	4.20	5.94	4.1	9	13	6	10
1909	38.8	71	− 4	3.24	2.37	2.52	4.82	3.1	9	13	5	10
1910	28.3	72	−24	2.17	0.92	1.89	3.71	10.2	6	13	5	10
1911	38.1	87	0	3.78	4.09	3.99	3.27	6.7	8	12	5	11
1912	28.3	72	−12	2.51	1.99	2.56	2.98	14.5	6	10	7	12
1913	29.8	78	− 9	2.15	2.08	2.62	1.75	8.5	7	12	5	11
1914	28.3	75	−11	2.80	2.03	2.55	3.83	14.0	7	12	6	10
1915	39.4	72	7	3.07	2.48	3.53	3.21	4.1	8	9	5	14
1916	31.4	78	−12	0.98	0.79	0.73	1.42	5.0	5	13	6	10
1917	30.5	83	−22	0.42	0.16	0.24	0.85	1.4	2	14	7	7
1918	34.9	85	−25	1.06	1.25	0.80	1.12	0.6	4	15	6	7
1919	35.3	71	−10	1.96	1.98	2.08	1.82	6.4	7	13	4	11
1920	34.5	78	− 5	0.62	0.33	0.40	1.14	1.2	4	11	6	12
1921	40.1	86	5	1.03	0.55	0.74	1.79	1.8	4	14	6	8
1922	35.4	80	− 5	1.83	1.37	1.62	2.49	1.9	5	14	6	8
1923	30.2	75	− 9	1.58	0.52	1.26	2.97	1.4	5	13	5	10
1924	33.8	79	− 5	1.84	1.58	1.92	2.03	8.1	7	14	4	11
1925	38.7	78	1	1.88	1.85	1.42	2.37	1.7	6	12	6	10
1926	39.4	76	− 4	2.07	1.93	1.81	2.46	2.9	6	11	6	11
1927	41.3	78	1	1.07	1.07	0.90	1.25	2.3	5	10	8	10
1928	37.0	73	− 2	2.27	2.18	2.17	2.47	1.8	7	12	6	11
1929	25.0	64	−23	1.96	1.31	1.72	2.86	9.4	7	10	5	13
1930	44.5	89	− 5	1.75	0.95	1.49	2.80	1.3	4	13	8	7
1931	40.9	75	5	2.49	1 46	2.82	3.20	0.3	6	12	6	10
1932	42.4	83	− 3	1.47	1.00	0.99	2.43	2.0	6	12	7	10
1933	32.2	78	−22	1.45	0.74	1.26	2.35	4.2	5	14	7	7
1934	32.5	79	−26	1.34	1.00	1.32	1.70	7.0	5	15	6	7
1935	37.4	80	0	1.54	1.63	1.45	1.55	0.2	5	10	6	12
1936	23.2	78	−25	1.50	1.43	1.33	1.73	4.1	6	12	7	10
1937	32.4	74	−15	1.38	1.20	1.46	1.48	3.5	6	11	7	10
1938	41.4	80	− 5	3.20	1.47	3.60	4.54	5.0	7	8	6	14
1939	33.0	71	− 9	3.17	1.73	2.70	5.08	8.6	9	11	6	11
1940	33.5	78	−11	1.59	1.11	1.37	2.28	5.5	9	7	6	16
1941	32.7	66	0	0.58	0.50	0.62	0.63	2.2	5	10	7	11
1942	33.0	74	−10	3.00	3.43	2.35	3.23	6.6	10	8	7	13
1943	39.1	80	−10	0.94	0.81	0.95	1.07	0.9	4	17	7	4
1944	37.9	82	−21	3.10	1.72	3.56	4.01	7.5	9	10	8	11
1945	35.5	85	−13	4.05	1.41	4.16	6.57	5.1	9	7	6	15
1946	40.8	75	− 1	2.81	0.97	2.98	4.48	2.6	5	15	6	7
1947	28.8	73	− 8	0.26	0.11	0.31	0.35	3.5	2	11	9	8
....	....	..	....	....	....	....	....	....	..	..	..	..
Period	33.3	89	−40	2.09	1.56	1.98	2.72	5.0	6	12	6	10

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Climatological Data for February 1947

Stations	Counties	Elevation, feet	Temperature, in degrees Fahr.							Precipitation, in inches						Number of days				Prevailing direction of wind	Observers
			Length of record, years	Mean	Departure from the normal	Highest	Date	Lowest	Date	Length of record, years	Total	Departure from the normal	Greatest in 24 hours [4]	Date	Total snowfall, unmelted	With precip., .01 inch or more	Clear	Partly cloudy	Cloudy		
Northern Division																					
Albany	Gentry	930	6	25.2[b]	......	60[b]	13	−5[b]	7	18	0.22	−1.40	0.20	28	2.2	2	4[c]	13[c]	8[c]	nw.	Curtis E. Grace
Amity	DeKalb	1,007	1	26.2	......	60	13†	−5	7	12	0.17	−1.35	0.16	28	2.2	2	6	9	13	nw.	O. M. Colhour
Bethany	Harrison	916	52	24.8	−2.7	59	13	−4	7	54	0.12	−1.30	0.12	28	3.0	1	11	7	10	nw.	B. A. McGregor
Brookfield	Linn	767	6	25.4	......	58	13	−1	8	6	0.05	......	0.05	25	*0.8*	1	13	9	6	nw.	G. F. Breen
Brunswick	Chariton	652	66	25.2	−4.6	59	14	2	8	68	T.	−1.81	T.	7†	T.	0	14	2	12	nw.	O. K. Benecke
Canton, Lock & Dam 20	Lewis	488	9	24.7	−6.3	55	14	2	8	17	0.06	−1.20	0.23	28	0.6	3	9	11	8	nw.	Lockmaster
Carrollton	Carroll	754	1	27.0	......	58	14	0	7	1	0.25	......	0.25	28	3.5	1	10	10	8	nw.	Harold E. Finley
Chillicothe 2 mi ESE(C)	Livingston	771	38	24.9	−7.4	58	13	−1	7	41	0.11	−1.34	0.11	28	3.3	1	5	10	13	nw.	Civil Aeronautics Adm.
Columbia	Boone	740	57	28.3	−4.1	60	14	5	7	57	0.23	−1.81	0.27	28–1	3.3	1	12	8	8	nw.	U. S. Weather Bureau
Conception	Nodaway	1,108	58	25.2	−3.0	61	13	−8	7	63	0.25	−0.90	0.22	28	2.5	2	6	12	10	nw.	Fr. Adelhelm Hess
Edgerton	Platte	856	27	....	......	..	..	..	..	44	....	......	....	..	....	..	..	..	..	......	....
Elsberry	Lincoln	449	16	25.8	−8.0	62	14	3	8	16	T.	−1.66	T.	6†	T.	0	13	6	9	n.	Soil Conservation Service
Fayette	Howard	760	67	27.4	−3.2	59	14	3	7†	64	0.12	−1.58	0.12	28	2.0	1	13	6	9	nw.	Irvin E. Schnell
Fulton	Callaway	818	59	27.2	−5.9	61	14	4	8	55	0.06	−1.61	0.03	24†	0.8	2	19	2	7	nw.	Frank E. Hillgartner
Grant City	Worth	1,134	43	23.2	−5.4	59	13	−7	7	55	0.10	−1.01	0.08	28	5.3	2	9	9	10	n.	J. Homer Korn
Hannibal	Marion	759	55	25.4	−4.3	57	14	2	7	63	0.14	−1.72	0.10	28	3.3	3	8	12	8	nw	Hannibal Water Dept.
Kansas City Airport	Jackson	741	58	28.9	−2.3	66	15	0	7	58	0.45	−1.04	0.45	28	5.4	1	8	12	8	nw.	U. S. Weather Bureau
Kansas City Univ	Jackson	908	9	30.4	−5.2	64	15†	1	7	9	0.33	−0.88	0.32	28	4.8	2	11	8	9	nw.	University of Kansas City
Kidder	Caldwell	1,020	55	25.8	−2.6	58	13†	−4	7	59	*T.*	−1.54	*T.*	7†	T.	0	13	4	11	n.	Mrs. Geraldine Terry
Kirksville	Adair	969	58	25.0	−2.1	55	15	−1	7	65	0.16	−1.37	0.15	28	*2.5*	2	22	3	3	nw.	Arthur Lee Jones
Kirksville Airport	Adair	970	8	23.0	......	54	13	0	7	8	0.16	......	0.16	28	4.5	1	3	12	13	nw.	Civil Aeronautics Adm.
Lawson	Ray	1,070	9	....	......	..	..	..	..	9	....	......	....	..	....	..	..	..	..	......	Elmer E. Lamb
Louisiana	Pike	469	53	28.0	−2.9	59	14	4	7†	66	*0.27*	−1.81	*0.20*	28	*4.0*	3	10	6	12	n.	Stark Bro's Nurseries
Macon	Macon	875	48	24.0	−5.6	58	14	1	8	54	0.05	−1.65	0.19	28	1.3	3	8	6	14	nw.	John W. Atwell
Maryville	Nodaway	1,169	57	24.1	−1.7	61	13	−5	7	53	0.17	−1.26	0.12	28	3.2	3	6	5	17	nw.	R. B. Montomery
Memphis	Scotland	787	8	21.3	......	57	13	−4	8	17	0.03	−0.94	0.03	24–25	1.9	1	7	10	11	nw.	John W. Alexander
Mexico	Audrain	800	58	25.2	−4.9	58	14	3	8	69	T.	−1.85	T.	6†	T.	0	8	7	13	nw.	Darrence W. Stuart
Moberly 3½ mi. NE	Randolph	860	10	....	......	..	..	..	..	10	....	......	....	..	....	..	..	..	..	......	....
New Florence. 1 mi SE	Montgomery	885	4	25.8	......	57	14	3	7	5	0.16	......	0.16	28	3.8	1	4	16	8	nw.	U. S. Weather Bureau
Oregon	Holt	1,048	91	27.0	−1.8	68	15	−6	7	91	0.13	−1.24	0.13	28	3.4	1	18	7	3	nw.	James M. Curry
Polo	Caldwell	1,000	1	25.0	......	59	13†	−1	8	1	*T.*	......	*T.*	28	T.	0	13	8	7	nw.	F. B. Albright
St. Charles	St. Charles	520	59	....	......	..	..	..	..	69	....	......	....	..	....	..	..	..	..	......	....
St. Joseph	Buchanan	957	37	26.7	−2.9	66	15	−4	7	75	0.31	−1.36	0.31	28	4.1	1	10	14	4	nw.	U. S. Weather Bureau
Salisbury	Chariton	723	1	27.4	......	60	14	3	7	1	0.17	......	0.17	28	3.5	1	11	7	10	nw.	David H. Robertson
Saverton, Lock No. 22.	Ralls	472	9	27.8	......	58	14†	2	8	9	0.03	−1.44	0.02	7	1.0	2	10	10	8	nw.	Lockmaster
Shelbina	Shelby	779	6	25.6	......	59	14	2	7†	54	0.16	−1.68	0.10	28	3.0	2	13	5	10	w.	Guyman Hatcher
Steffenville	Lewis	650	49	25.4	−4.3	55	14	1	7	54	0.13	−1.64	0.12	28	2.8	2	10	13	5	nw.	Mrs. Fannie V. Gross
Tarkio	Atchison	916	44	24.3	−4.7	64	15	−5	7	53	0.11	−1.17	0.08	28	3.8	2	4	6	18	nw.	Civil Aeronautics Adm.
Trenton	Grundy	822	51	26.2	−3.2	58	13	−2	7	52	0.05	−1.53	0.03	28	0.4	2	5	15	8	n.	W. H. Estes
Unionville	Putnam	1,062	54	20.6	−6.1	56	13	−5	8	54	0.05§	−1.72	0.15	28	0.5	2	13	7	8	nw.	Mrs. Dora A. Wilson
Vandalia	Audrain	766	3	26.8	......	57	14	−4	8	8	0.10	......	0.10	28	1.0	1	17	6	5	n.	Mrs. Naomi K. Stoutz
Warrenton	Warren	816	65	28.2	−2.7	61	14	3	8	57	0.18	−1.71	0.09	12†	2.0	2	12	11	5	w.	W. T. Zimmerman
Keokuk, Iowa	Lee, Ia.	574	75	24.1	−4.2	55	13	−2	7	75	0.21	−1.34	0.14	28	0.5	4	9	17	2	nw	U. S. Weather Bureau
Division means	**and extremes**	.....	..	**25.7**	**−4.2**	**68**	**15**	**−8**	**7**	..	**0.11**	**−1.45**	**0.45**	**28**	**2.3**	**2**	**10**	**9**	**9**	**nw.**	
Southwestern Division																					
Anderson 1½ mi SW	McDonald	1,000	43	29.4	−6.3	70	15	−1	10	48	0.25	−1.53	0.20	28	3.5	2	21	3	4	n.	Samuel G. Chamberlain
Appleton City. 2 mi. W	Bates	813	52	29.6	−4.3	64	14	4	7	55	0.22	−1.45	0.21	27-28	2.9	3	11	12	5	nw.	F. Paul Eye
Bolivar	Polk	1,071	44	31.1	−4.1	64	15	4	8†	52	0.38	−1.72	0.30	27-28	3.8	2	13	10	5	nw.	Southwest Baptist College
Boonville	Cooper	650	9	25.5	−6.6	58	14†	3	8	70	0.07	−1.71	0.05	6	0.2	2	12	7	9	nw.	Boonville Water Dept.
Butler	Bates	865	1	29.0[b]	......	65[b]	16	4[b]	7	6	0.32	......	0.25	27-28	3.1	2	7[b]	16[b]	3[b]	nw.	Harley W. Johnson
Camdenton	Pulaski	940	1	32.0[a]	......	63[a]	15	4[a]	8	1	*0.30*	......	*0.25*	28	3.5	2	11[a]	11[a]	5[a]	nw.	Mo. Conservation Com.
Carthage	Jasper	962	13	33.0	......	69	15	4	10	23	0.49	......	0.42	27-28	5.0§	2	11	15	2	nw.	Carthage W. and E. Plant
Clinton	Henry	786	54	28.9	−4.7	67	15	5	7†	60	0.24	−1.71	0.16	28	3.1	2	13	12	3	nw.	U. S. Weather Bureau
Eldon	Miller	934	52	30.2	−2.9	65	14	4	8	48	0.21	−1.61	0.21	28	2.0	1	6	16	6	nw.	Arthur Rothwell
Harrisonville	Cass	904	69	27.0	−3.7	65	14†	2	8	72	0.16	−1.57	0.46	28	*1.2*	2	9	8	11	nw.	Jeffrey B. Patterson
Jefferson City	Cole	557	57	29.0	−3.1	62	14	4	8	65	0.03	−1.73	0.03	28	0.8	1	18	3	7	nw.	K. W. O. S. Radio Farm
Joplin Airport	Jasper	1,008	25	31.4	−4.4	65	15	6	7†	42	0.82	−0.88	0.71	27-28	5.7	4	9	12	7	nw.	Empire Dist. Electric Co.
Lakeside	Miller	595	16	29.6	−4.4	62	15	7	8	16	0.09	−1.73	0.08	28	1.0	2	6	14	8	nw.	W. S. Frame
Lamar	Barton	980	59	30.0	−5.3	69	14	4	9†	66	0.31	−1.46	0.37	27-28	3.0§	2	17	7	4	nw.	Mrs. Marie Mann
Lebanon	Laclede	1,265	59	31.0	−3.4	62	15	2	8†	60	0.37	−1.82	0.27	27-28	*3.0*	3	8	12	8	nw.	Mrs. Rosa E. Montelius
Lexington	Lafayette	688	62	29.0	−2.0	63	14	3	8	63	T.	−1.84	*0.60*	28	*T.*	0	19	5	4	sw.	Tilton Davis
Lockwood	Dade	1,078	41	31.5	−5.5	66	15	4	7	51	0.44	−1.29	0.32	27-28	6.0	2	15	11	2	nw.	Hubert A. Nieman
Marshall	Saline	779	60	28.1	−2.8	59	14†	3	7	57	0.12	−1.66	0.12	28	3.0	1	12	9	7	nw.	Thomas A. Reid
Monett	Barry	1,317	0	29.8	......	65	15	4	9	0	0.34	......	0.20	28	3.4	3	13	13	2	n.	Mo. Univ. Fruit Exp. Sta.
Mountain Grove	Wright	1,463	46	31.2	−3.9	61	15	3	8	50	0.27	−1.96	0.18	27-28	3.6	4	12	11	5	nw.	Mo. Fruit Exp. Station
Mount Vernon	Lawrence	1,174	35	32.8	−1.7	66	15	4	9	47	0.30	−2.30	0.20	27-28	*3.7*	3	11	13	4	n.	James C. Williamson
Neosho	Newton	1,011	60	34.0	−3.6	68	15	3	10	64	0.43	−1.56	0.36	27-28	4.0§	3	16	8	4	nw.	U. S. Fisheries Station
Nevada	Vernon	862	54	31.5	−2.4	66	14†	3	8†	55	0.47	−1.28	0.35	27-28	4.5	2	15	5	8	nw.	Henry Kraft
Ozark Beach	Taney	700	7	32.4	......	71	15	4	9	22	0.56	−1.24	0.30	18	4.1§	3	4	15	9	nw.	Empire District Elec. Co.
Sedalia	Pettis	910	34	29.2	−1.2	61	14	5	8†	36	0.19	−1.95	0.18	28	2.7	2	13	4	11	nw.	Dr. J. E. Cannaday
Seligman	Barry	1,542	46	30.4	−7.1	65	15	4	8†	44	0.35	−1.49	0.20	7	3.5	3	14	12	2	n.	Floyd E. Fawver
Seymour 3½ miles NE	Webster	1,642	41	26.4	−8.6	60	15	0	11	41	0.43	−1.75	0.25	27	6.7	4	14	6	8	nw.	Ira H. Hailey
Springfield 4 mi. NW	Greene	1,301	59	28.7	−5.3	64	15	3	9	59	0.35	−2.00	0.17	7†	5.3	4	7	13	8	w.	U. S. Weather Bureau
Sweet Springs	Saline	700	6	28.2	......	62	14	4	7†	6	0.21	......	0.19	28	4.2§	2	13	7	8	nw.	H. F. Nelson
Warrensburg	Johnson	878	60	29.4	−3.1	61	14	4	7	67	0.23	−1.65	0.21	28	3.2§	2	12	10	6	nw.	Central Teachers College
Warsaw	Benton	687	46	31.2	−4.4	65	14	4	10	52	0.16	−2.08	0.11	28	*2.0*	2	15	5	8	nw.	Dora B. Johnson
Wasola	Ozark	1,294	6	33.0	......	64	15	5	9	7	0.65	......	0.39	18	6.7§	4	13	8	7	nw.	A. W. Pinckney
Waynesville	Pulaski	805	1	29.0[i]	......	64[i]	14	3[i]	9	1	*0.43*	......	*0.40*	27-28	*4.5*	2	9[h]	6[h]	9[h]	n.	Jesse H. Barlow
Division means	**and extremes**	.....	..	**30.1**	**−4.2**	**71**	**15**	**−1**	**10**	..	**0.31**	**−1.67**	**0.71**	**27-28**	**3.4**	**2**	**12**	**10**	**6**	**nw.**	
Southeastern Division																					
Advance ¼ mile W	Stoddard	354	10	30.5	−8.3	68	14	6	8	10	0.46	−3.30	0.28	28	8.0	2	11	8	9	nw.	U. S. Weather Bureau
Arcadia	Iron	926	66	28.2	−5.9	67	14	2	8	69	0.20	−2.28	0.43	28–1	*1.4*	3	10	4	14	w.	Arcadia College
Birch Tree ½ mile E	Shannon	1,000	52	31.6	−4.7	64	14	2	10	53	0.53	−1.97	0.31	27-28	3.1	3	14	12	2	nw.	Mrs. Mildred E. Catlett
Black 9 miles NW	Iron	1,000	54	29.4	−4.9	64	14	3	8	54	0.31	−1.97	0.21	28	3.3§	4	13	8	7	nw.	M. L Volner
Campbell	Dunklin	314	21	33.8	−8.3	67	14	8	28	21	0.22	−3.11	0.10	18-19	6.0	3	17	7	4	w	Mrs. Ruth Christian
Cape Girardeau	Cape Girardeau	347	2	32.2	......	73	14	5	8	47	0.22	−2.18	0.13	28	1.5§	4	13	11	4	nw.	Dr. Robert Martin
Caruthersville	Pemiscot	265	51	35.9	−4.4	68	14	8	8	55	0.61	−2.77	0.38	18-19	7.8	3	18	4	6	nw.	Victor T. Malloure
Clearwater Dam	Wayne	648	1	31.4	......	63	14	4	8	1	0.40	......	0.40	18-19	2.0	1	16	4	8	n.	U. S. Engineer Office
Crystal City	Jefferson	420	13	31.6	−3.6	65	14	6	8	13	0.26	−1.61	0.20	28	3.7	2	7	5	16	nw.	Richard K. Ragland
Doniphan	Ripley	344	43	33.1	−6.2	71	14	4	10	43	0.37	−2.94	0.16	18-19	4.6§	4	18[a]	5[a]	4[a]	nw.	Boyce Lackey
Farmington	St. Francois	896	36	30.4	−6.5	64	14	2	8	50	0.22	−2.30	0.11	28	3.1	3	14	4	10	nw.	F. M. Karsch
Greenville	Wayne	460	38	32.4	−3.4	69	14	4	10	40	0.43§	−2.29	0.28§	18-19	7.5§	3	16[b]	6[b]	4[b]	nw.	Beuford Shoemake
Jackson	Cape Girardeau	428	56	31.9	−4.6	69	14	6	8	57	0.30	−2.58	0.19	28	3.3	2	11	9	8	nw.	Danny Siebert
Koshkonong	Oregon	958	46	33.4	−5.7	65	14	6	8	47	0.83	−2.03	0.54	18	7.3	4	15	7	6	nw.	Mrs. Genevieve T. Smith
Licking 4 miles N	Texas	1,170	10	28.6	−9.3	62	14†	2	8	10	0.18	−2.23	0.15	28	2.6	2	9[a]	5[a]	13[a]	n.	Fern E. Austin

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Climatological Data for February 1947—Continued from preceding page

Stations	Counties	Elevation, feet	Temperature, in degrees, Fahr.							Precipitation, in inches						Number of days				Prevailing direction of wind	Observers
			Length of record, years	Mean	Departure from the normal	Highest	Date	Lowest	Date	Length of record, years	Total	Departure from the normal	Greatest in 24 hours [4]	Date	Total snowfall, unmelted	With precip., .01 inch or more	Clear	Partly cloudy	Cloudy		
Southeastern Division—	*Concluded*																				
Marble Hill	Bollinger	532	52	30.4	− 6.2	64	14†	4	8	54	0.56	−2.52	0.30	28	4.5§	2	17	8	3	nw.	R. A. DeWitt
Poplar Bluff	Butler	339	42	34.6	− 3.5	70	14	7	8	43	0.19	−2.70	0.15	18	3.0	3	15	7	6	nw.	Osmon M. Richardson
Rolla	Phelps	1,202	47	27.4	− 8.9	58	13†	2	8	63	0.20	−1.85	0.12	11	3.9	2	9	12	7	nw.	Rolla School of Mines
St. Louis:																					
City Office		465	110	28.5	− 6.3	60	14	5	7	110	0.41	−2.15	0.35	28–1	5.8	4	9	9	10	nw.	**Section Center**
St. Louis Airport	St. Louis	556	10	28.2	− 5.8	60	14	5	7	16	0.27	−1.97	0.26	28–1	4.5	4	9	4	15	nw.	U. S. Weather Bureau
St. Louis University	St. Louis City	578	35	28.3	− 6.6	60	14	5	7†	35	0.74	−1.57	0.44	28	7.4	7	10	12	6	nw.	St. Louis University
Salem	Dent	1,206	43	30.0	− 5.8	62	14	2	8	46	0.29	−1.99	0.20	28	3.0	2	8	8	12	nw.	E. E. Martin
Sikeston	Scott	318	40	30.8	− 6.4	66	14	7	8	50	0.35	−2.87	0.22	18	6.8	2	11	14	3	nw	Mrs. Lucy W. Humphreys
Union 1½ mi. SE	Franklin	520	9	29.1	− 8.3	60	14	5	8	30	0.23	−1.97	0.14	12	2.7§	3	15	4	9	nw.	Cornelius Sieges
Vichy 2 mi. NW	Maries	1,125	11	26.8	......	60	14	3	7†	12	0.25	......	0.22	28	2.7	2	4	11	13	nw.	Civil Aeronautics Adm.
Wappapello Dam	Butler	475	8	31.2	......	68	14	5	8	8	0.43	−3.18	0.28	18	4.8	2	16	1	11	nw.	U. S. Engineer Office
Webster Groves	St. Louis	507	1	28.8	......	61	14	4	8	2	0.31	......	0.21	28	4.0	2	12	8	8	nw.	R. W. Lawrie
Weingarten	St. Genevieve	833	6	30.0	......	60	14	2	8	7	0.30§	......	*0.20*	27	3.0	2	11	12	5	nw	William J. Miller
West Plains	Howell	1,005	10	30.0	− 8.6	65	14	5	8	10	0.85	−2.64	0.41	18–19	10.7	6	10	9	9	nw.	U. S. Weather Bureau
Willow Springs 500 ft E	Howell	1,238	6	31.0	......	62	14†	3	8	40	0.52	−2.04	0.32	27–28	6.3	3	13	9	6	n.	Allen Frazee
Cairo, Ill.	Alexander, Ill.	314	75	32.2	− 6.3	64	14	8	8	76	0.55	−2.58	0.27	28	6.2	6	10	10	8	nw.	U. S. Weather Bureau
Division means	**and extremes**	.....	..	**30.7**	**− 6.2**	**73**	**14**	**2**	**8†**	..	**0.35**	**−2.37**	**0.62**	**18**	**4.7**	**3**	**12**	**8**	**8**	**nw.**	
State means	**and extremes**	.....	..	**28.8**	**− 4.5**	**73**	**14**	**− 8**	**7**	..	**0.26**	**−1.83**	**0.71**	**27–28**	**3.5**	**2**	**11**	**9**	**8**	**nw.**	

The departures from normal temperature are computed from the averages of the entire period for stations having 10 or more years of record. Departures of precipitation for stations with 15 years or more of record are computed from a normal or "standard mean", adjusted to a uniform 35-year period: for stations of 10 to 14 years the means for the period of record are used. The normal may be found by adding the departures when minus (−) or subtracting when plus (+). Figures and letters following stations indicate distance in miles and direction of station from the city Post Office, unless otherwise indicated. T. Trace or 0.005 inch or less. ^{a}, ^{b}, ^{c}, etc., number of days missing; for example, ^{b}, indicates two days missing. Italics data interpolated. § Partly interpolated. † And other dates. ‡ Received too late to be included in means and summaries. [4] Best available used for stations not equipped with recorders. Post office address of: Altona is Adrian; Clearwater Dam is Piedmont; Crane Mountain is Arcadia; East End is Goodland; Eastwood Lookout is Van Buren; Hailey is Cassville; High Lookout is Birch Tree; Macedonia Lookout is Doniphan; Oates Tower is Centerville; Perry is Center; Pineview Lookout is Cape Fair; Sugar Camp Lookout is Seligman; Topaz is Cabool; Wilderness Lookout is Lampe. (C) Airport. ¶ Indicates plus.

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TEMPERATURE

The monthly mean for the State, 103 stations reporting, was 28.8°, or 4.5° colder than the 60-year February average. The highest monthly mean was 35.9° at Caruthersville, and the lowest was 20.6° at Unionville. The highest reported was 73° at Cape Girardeau on the 14th, and the lowest was 8° below zero at Conception on the 7th.

PRECIPITATION

The average for the State, 212 stations reporting, was 0.26 inch, or 1.83 inches less than the 60-year February average. The greatest monthly amount was 1.12 inches at Ozark, and the least was none at Madison, Palmyra, Perry, and Shelbyville. The greatest amount reported in 24 hours was 0.71 inch at Joplin Airport on the 27-28th. The average number of days with 0.01 inch, or more, was 2.

Snowfall averaged 3.5 inches, or 1.5 inches less than the 56-year February average. The greatest monthly snowfall reported was 10.7 inches at West Plains.

MISCELLANEOUS PHENOMENA

Aurora.—16th.

Dust.—3d, 6th, 7th.

Fogs.—Heavy, 11th, 12th, 13th, 15th, 17th.

Glaze.—1st, 20th, 28th,

Meteor.—18th; observed locally at Seymour.

Sleet.—6th, 18th, 28th.

Windstorm.—High winds reported on several days, particularly 6th and 7th, but no damage reported.

Daily Precipitation for February 1947

Stations	Drainage-basins	Day of month																															Total
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	..	..	..	
Northern Division																																	
Albany	Grand						T.	T.				.02													T.	T.			.20				0.22
Amity	do	T.					T.	T.	T.			T.									.01		T.		T.	T.	T.		.16				0.17
Auxvasse	Missouri						T.	T.	T.	T.													T.		T.	T.	T.		.26				0.26
Bethany	Grand	T.										T.							T.		T.	T.	T.		T.	T.	T.		.12				0.12
Bowling Green[2]	Mississippi																							T.	T.	T.							T.
Brookfield[2]	Grand								T.																	.05			T.				0.05
Browning 3 mi. NE	do	.01					.02	.01	T.			T.					T.				T.	T.	.04	T.	.01	.02	T.	T.	.29				0.40
Brunswick[2]	do							T.	T.				T.									T.				T.	T.		T.				T.
Canton, Lock No. 20[2]	Mississippi							.01	.02	T.												.03	T.		T.	T.							0.06
Carrollton	Missouri							T.				T.																	.25				0.25
Centralia[2]	Mississippi																												.04				0.04
Chillicothe[2] (B)	Grand	T.							T.													T.			T.	T.			T.				T
Chillicothe[3] 2mi ESE (C)	do						T.	T.	T.	T.		T.									T.		T.	T.	T.	T.	T.	T.	.11				0.11
Columbia[1, 5]	Missouri						T.	T.	T.			T.									T.		T.	T.	T.	T.	T.		.23				0.23
Columbia[5] 9 mi. WNW	do						T.	T.	T.														T.		T.	T.	T.		.15				0.15
Conception	do	.03					T.	T.				T.							T.		T.				T.	T.			.22				0.25
Edgerton	do																																....
Edina[2]	Mississippi							T.	T.													T.				T.							T.
Elsberry S. C. S.[2]	do							T.														T.			T.	T.							T.
Fayette	Missouri			T.			T.	T.	T.			T.											T.		T.	T.			.12				0.12
Fulton[2]	do							T.																		.03			.03				0.06
Gallatin[2]	Grand	T.							T.			T.										T.				.01			.01				0.02
Grant City	do	T.					T.	T.	T.			T.	T.						T.		T.		T.		T.	.02	T.		.08				0.10
Hannibal[1] (A)	Mississippi			T.			.03	T.							T.						T.	T.	.01	T.	T.	T.			.10				0.14
Hannibal[2] (B)	do				T.			.08	.02													T.	.03		T.	T.	T.						0.13
Hermann[2]	Missouri												.08													.03			.05				0.16
Kahoka[2]	Mississippi							.02	T.													.02			T.	T.							§0.04
Kansas City Airport[1, 5]	Missouri						T.	T.	T.			T.									T.		T.		T.	T.	T.	T.	.45				0.45
Kansas City University	do							.01	T.			T.									T.				T.	T.			.32				0.33
Kidder[2]	Grand							T.				T.									T.				T.	T.							T.
King City	Missouri						T.																			T.	T.		.15				0.15
Kirksville	Mississippi	T.					.01																						.15				0.16
Kirksville Airport[5]	do	T.		T.			T.	T.	T.						T.		T.				T.	T.	T.	T.	T.	T.	T.	T.	.16				0.16
LaBelle[2]	do									T.												T.			T.	T.							T.
Lawson	Missouri																																....
Linneus	Grand	T.					T.		T.	T.	T.		T.								T.	T.	T.			T.			.10				0.10
Louisiana (A)	Mississippi							T.	T.													T.	.03		T.	.04	T.		.20				0.27
Louisiana[2] (B)	do							T.	T.													T.	.02			T.							0.02
Lucerne[2]	Grand	T.						T.	T.													T.				T.			T.				T.
Macon[2]	Chariton							.01	T.												T.		.01			.03			T.				0.05
Madison[2]	Mississippi																																0.00
Martinsburg[2]	Missouri				T.			T.	T.	T.						T.								T.	T.	T.	T.	T.	.03				0.03
Maryville	do	.03					T.	T.				T.							T.		.02				T.	T.	T.		.12				0.17
Memphis[2]	Mississippi	T.			T.			T.	T.	T.												T.	T.		T.	.03	T.						0.03
Mexico[2]	do						T.	T.	T.	T.																			T.				T.
Milan[2]	Grand	.02							T.												T.	T.	T.			.02			.09				0.13
Moberly[2] 3½ mi. NE	Mississippi																																....
Monroe City	do							T.															T.		T.				.04				0.04
New Florence[3, 5] 1 mi SE	Missouri	T.					T.	T.	T.			T.	T.		T.		T.			T.			T.	T.	T.	T.	T.		.16				0.16
Oregon	do	T.					T.	T.	T.										T.		T.		T.		T.	T.	T.		.13				0.13
Palmyra[2]	Mississippi																																0.00
Paris[2]	do				T.			.01																	T.								0.01
Perry 1 mile E	do																																0.00
Philadelphia	do																																....
Polo[3]	Missouri							T.		T.		T.																	T.				T.
St. Charles[2] (A)	do																																....
St. Charles[2] (B)	do								T.				.19	.02						.01			T.	T.	.01	T.	T.	T.	.04				0.27
St. Joseph[1, 5]	do						T.	T.	T.			T.							T.		T.		T.		T.	T.	T.		.31				0.31
Salisbury	Chariton						T.	T.	T.			T.													T.	T.			.17				0.17
Saverton, Lock No. 22[2]	Mississippi							.01	.02	T.												T.	T.		T.	T.	T.	T.					0.03
Shelbina	do						T.	T.	T.												T.	T.	.06	T.		T.		T.	.10				0.16
Shelbyville[2]	do																																0.00
Steffenville	do						.01															T.	T.		T.	T.	T.		.12				0.13
Tarkio[3]	Missouri						T.	T.	T.	T.									T.	T.	.03	T.	T.		T.	T.	T.	T.	.08				0.11
Trenton[2]	Grand							T.	.02	T.											T.	T.	T.	T.	T.	T.	T.	T.	.03				0.05
Troy[2]	Mississippi							T.	T.				.05										T.	T.	T.		T.		T.				0.05
Unionville[2]	Chariton						T.		T.												T.	.02	T.			.03							§0.05
Vandalia	Mississippi						T.	T.																					.10				0.10
Warrenton	do						T.	T.	T.				.09				T.		T.	T.					T.	T.			.09				0.18
Keokuk, Iowa[1]	do	T.		T.		T.	.03	T.	T.									T.			T.	.03		T.	.01	T.			.14				0.21
Southwestern Division																																	
Altona[2]	Osage							T.					T.															T.	.18				0.18
Anderson[2] 1½ mi. SW	Neosho							.05																					.20				0.25
Appleton City 2 mi. W	Osage							*	.02			T.													T.	T.	T.		.20				0.22
Ava Ranger Station[2]	White							T.	.11				.05							.19									.24				0.59
Bolivar	Osage							.08	T.	T.		T.							T.				T.		T.	T.	T.		.30				0.38
Boonville[2] (A)	Missouri							.05	T.														T.			T.			.02				0.07
Boonville[2] (B)	do							T.																		T.			.04				0.04
Bradleyville[2]	White							.01	.04											.13	T.								.18				0.36
Buffalo[2]	Osage							.02					T.																.15				0.17
Butler	do							.05	T.			.02													T.	T.			.25				0.32
Camdenton	do							.05																					.25				0.30
Caplinger Mills[2]	do							.08	T.				T.													T.			.06				0.14
Carthage	Neosho							.07					T.																.42				0.49
Cassville[2]	White							.04	T.	T.			T.							.05				T.					.15				0.24
Chadwick[2]	do								.05	.02			.01							.35				T.		T.			.17				0.60
Clinton[3]	Osage							T.				T.													T.	T.	T.	.08	.16				0.24
Concordia	Missouri							T.				T.															T.		.35				0.35
Crocker	Osage							.07	T.	T.	.02								T.				T.	T.	T.	T.		.22					0.31
Eldon	Missouri							T.	T.														T.		T.	T.			.21				0.21
Eldorado Springs	Osage							.12																					.30				0.42
Elijah[2]	White							.02	T.				.04	T.						.54									.25				0.85
Forsyth[2]	do							.02	.01											.16									.20				0.39
Galena[2]	do							T.					T.							.03				T.		T.			.11				0.14
Granby[2]	do							.08																					.24				0.32
Hailey	do							T.											T.					T.					.27				0.27
Harrisonville[2]	Osage							.03																		T.	T.	T.	.13				0.16
Jefferson City[2] (A)	Missouri								T.	T.														T.		T.	T.		.03				0.03
Jefferson City[2] (B)	do								T.	T.														T.		T.	T.		.04				0.04

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Stations	Drainage-basins	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	..	..	..	Total
Southwestern Division—	*Concluded*																																
Joplin[1]	Neosho							.02				T.							T.									*	.47				0.49
Lakeside[2, 5]	Osage							.01	T.	T.			T.							T.				T.	T.	T.	T.		.08				0.09
Lamar[2]	Neosho							.10	*T.*																				.21				0.31
Lebanon	Osage							.05	*T.*	.05																			.27				0.37
Lexington[2]	Missouri							*T.*																		*T.*	*T.*		T.				T.
Lockwood	Osage							.12	T.			T.														T.			.32				0.44
Mansfield[2]	White							.09	.06											T.									.20				0.35
Marshall	Missouri							T.													T.		T.		T.	T.			.12				0.12
Marshfield[2]	White				T.			.07	T.	.03			T.							.01				T.		T.	T.		.15				0.26
Monett[2]	Neosho							.08	T.	T.			T.							.06				T.					.20				0.34
Mountain Grove[2]	Gasconade							.02					.04							.03						*T.*			.18				0.27
Mount Vernon[2]	Neosho							.07	*T.*				.03						*T.*										.20				0.30
Neosho	do							.06	*T.*										.01					T.					.36				0.43
Nevada	Osage							.12				T.														T.			.35				0.47
Osceola[2]	do							T					.05																.15				0.20
Ozark[2]	White					.12	.40	.28	T.				.02							.12								.06	.12				1.12
Ozark Beach[2]	do							.06												.30				*T.*					.20				0.56
Pierce City[2]	Neosho							.18				T.																	.28				0.46
Pineview Lookout[2]	White							*T.*												*T.*									.15				0.15
Pleasant Hill[2]	Osage							*T.*	*T.*	*T.*														*T.*		*T.*	*T.*		.06				0.06
Roby	Gasconade							T.	T.				.08						T.	T.			T.	T.	T.	T.	T.		.31				0.39
St. Thomas[2]. 2¼ mi sw	Osage							*T,*	*T.*	*T.*			*T.*												T.	T.			*.07*				§0.07
Sedalia	Missouri						T.	.01				T.											T.		T.				.18				0.19
Seligman[2]	Neosho							.10	.10											T.									.15				0.35
Seymour[2]....3½ mi. NE	White							.05	T.	T.			.05							.08						T.	T.	*T.*	.25				0.43
Shell Knob[2]...3 mi. SE	do							.03	T.											.06									.11				0.20
Siloam Sprgs Lookout[2]	do																			.21									.55				0.76
Springfield[1, 5]. 4 mi. NW	do			T.			T.	.17	T.			T.							.01				T.	T.	T.	T.	T.	.07	.10				0.35
Stover[2]	Missouri								*T.*																	*T.*			.10				0.10
Sugar Camp Lookout[2]‡	White							*.10*	*.10*											.06									*.15*				§0.41
Sweet Springs	Missouri						T.	T.	T.			.02											T.				T.		.19				0.21
Tecumseh[2]...¼ mi. w	White							.01	.02				.05											.04		T.			.20				0.32
Topaz[2]	do												*.10*							.20									.24				§0.54
Vanzant[2]....3¾ mi. SE	do							.02	*T.*				.01							.17							T.		.29				0.49
Waco[2]	Spring																																....
Warrensburg	Missouri							T.	T.			.02	T.								*T.*		*T.*		*T.*				.21				0.23
Warsaw[2]...(A)	Osage							.05					T.												*T.*	*T.*	*T.*		.11				0.16
Warsaw[2]...(B)	do							T.	T.	T.												T.							.10				0.10
Wasola[2]	White							.04					.01							.39									.21				0.65
Waverly[2]	Missouri							T.	T.				T.									T.			T.	T.	T.		T.				T.
Waynesville	Gasconade							*.03*	*T.*										*T.*										*.40*				*0.43*
Wilderness Lookout[2]	White							*	.04	T.										.11									.10				0.25
Southeastern Division																																	
Advance[3].....¼ mile w	St. Francis	T.		T.			T.	T.											.18	T.			T.		T.	T.			.28				0.46
Alton.......10 miles SE	Black																		.02	.25				.03					.17				0.47
Annapolis[3].....7 mi. w	do												.03							.01							T.		.18				0.22
Arcadia[2]	St. Francis								T.				.09							.05									.06				0.20
Belleview[2]	Meramec				T.			T.	.01	.02			.06							.04					T.	T.	*T.*		.09				0.22
Bernie[2]	St. Francis																			.05									.05				0.10
Birch Tree[2]...½ mile E	Black												.02							.30									.21				0.53
Black...... 9 miles NW	do							*T.*	.01				.08						.01						*T.*				.21				0.31
Bloomfield[2]	St. Francis							T.	T.											.14				T.			T.		.12				0.26
Bunker[2]... 4 miles NW	Black							T.	.05											.04				T.				T.	*.35*				§0.44
Campbell	St. Francis							*T.*											T.	.10				.03					.09				0.22
Cape Girardeau....(A)	Mississippi				.01			T	T.				T.						.02	.06				T.	T.	T.			.13				0.22
Cape Girardeau[2]...(B)	do				T.								T.							.17						T.			.25				0.42
Caruthersville[2]	do												T.							.38				.20					.03				0.61
Centerville(1)[2]	Black								*T.*	*T.*			.07						*T.*	.03									.12				0.22
Centerville(2)[2]	do								T.	T.			.07							.05						T.	T.		.18				0.30
Clearwater Dam[2]	do							T.	T.				T.							.40													0.40
Cook Station[2]	Meramec						*T.*	*T.*	*.01*				.07						*T.*	*T.*					*T.*	*T.*			*.08*				§0.16
Crane Mountain[2]	St. Francis												.04							.02									.15				0.21
Crystal City	Mississippi						T.	*T.*	T.				.06												*T.*	*T.*			.20				0.26
Cuba	Meramec						T	T.	T.				.17							T.			T.		T.	T.			.21				0.38
Deering[2]	St. Francis																			.32				.07					.05				0.44
De Soto	Mississippi						T.	*T.*					.07							T.						T.			.20				0.27
Dexter[2]	St. Francis																			.21				T.					.12				0.33
Doniphan(1)	Black												T.						.12	.04				.09	*T.*				.12				0.37
Doniphan(2)[2]	do								T.				.02							.26				.10					.08				0.46
East End[2]	Meramec												*.10*							*T.*							*T.*		.10				§0.20
Eastwood Lookout[2]	Black																																....
Ellington[2]	do								*T.*	*T.*	*T.*		T.							T.							*T.*		.20				0.20
Ellsinore	do																		.20	.03									.15				0.38
Farmington[2]	St. Francis							T.	T.	T.			.09							.02				T.		T.			.11				0.22
Fisk[2]	do																			.19									.10				0.29
Fredericktown[2]	do												.06							.02				T.					.17				0.25
Gerald	Meramec						*T.*	*T.*	*T.*				.11							*T.*						*T.*		*T.*	.27				0.38
Greenville(1)	St. Francis												T.						*.14*	.14				T.					.15				§0.43
Greenville[2](2)	do								T.				.01							.27				T.			T.		.17				0.45
High Lookout[2]	Black							*T.*	*T.*											.32				*T.*		*T.*			.36				0.68
Jackson	Mississippi				T.		T.	T.	T.				T.						.11	T.				T.	T.	T.			.19				0.30
Jefferson Barracks	do																																....
Jerome[2]	Gasconade							.04					.04																.12				0.20
Koshkonong[2]	Black							.01	*T.*				T.							.54				.05					.23				0.83
Leeper[2]	do							T.	*T.*				T.							.30					*T.*	T.	T.		.13				0.43
Licking[2]	Gasconade												.03																.15				0.18
Macedonia Lookout[2]	Black							*T.*	T.			.01								.34				T.					.13				0.48
Marble Hill	Mississippi								T.				T.						.26					T.		T.			.30				0.56
Morehouse	do							*T.*											*T.*	.24						*T.*			.12				0.36
Moselle[2]	Meramec																																....
New Madrid[2]	Mississippi				T.				T.											.22					T.	T.			.12				0.34
Oates Tower[2]	Black							T.	T.	T			.07							.07						T.	*T.*		.14				0.28
Owensville[2]	Gasconade									.05			.23							*T.*					*T.*				.05				0.33
Pacific[2]	Meramec						T.	T.	T.	T.			.20							T.					T.	T.			.10				0.30
Parma[3]	St. Francis																			.18				T.					.12				0.30
Perryville	Mississippi												.10												T.				T.				0.10
Poplar Bluff[2]	Black	T.						T.	T.											.15				.01			*T.*		.03				0 19
Puxico[2]	St. Francis							T.	T.											.20				T.			T.		.12				0.32
Qulin[2]	do								T.											.20				.07		T.	T.		.06				0.33
Reynolds[2]	Black								T.				.05							.03									.19				0.27
Richwoods[2]	Meramec								.01	T.			.09	T.					T.	.03					T.	T.	T.		.09				0.22
Rolla[2]	do							T.	T.	T.			.12							T.				T.	T.	T.	T.		.08				0.20
Round Spring[2]	Black												.02																.22				0.24

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Stations	Drainage-basins	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	..	..	..	Total
Southeastern Division —	*Concluded*																																
St. Louis:																																	
City Office[1], [5]	Mississippi	T.	....	T.	....	....	.02	T.	T.	....	....	....	.11	....	T.	T.	T.	....	.01	T.	....	T.	T.	T.	T.	T.	T.	....	.27	....	....	....	0.41
Airport[3], [5]	Missouri	T.	....	T.	....	....	.02	T.	T.	T.	....	....	.10	....	....	T.	....	....	.01	T.	....	T.	T.	T.	T.	T.	T.	....	.14	....	....	....	0.27
St. Louis Univ.[1], [5]	Mississippi	....	....	T.	....	....	.04	.01	.01	....	....	....	.20	....	....	....	....	....	.02	T.	....	T.	T.	T.	.02	T.	T.	....	.44	....	....	....	0.74
Washington Univ.[2]	....do	....	....	....	....	....	....	....	.03	....	....	....	.14	....	....	....	....	....	....	.01	....	....	....	....	....	....	....	....	.05	....	....	....	0.23
Salem	Meramec	....	....	....	....	....	....	*T.*	....	....	....	....	.09	....	....	....	....	....	T.	....	....	....	T.	....	....	T.	....	....	.20	....	....	....	0.29
Sikeston[2]	Mississippi	....	....	....	*T.*	....	....	T.	....	....	....	....	*T.*	....	....	....	....	....	....	.22	....	....	....	*T.*	....	....	*T.*	....	.13	....	....	....	0.35
Steelville[2] ...2½ mi. NE	Meramec	....	....	....	....	....	....	....	....	T.	....	....	.10	....	....	....	....	....	....	.10	....	....	....	....	....	*T.*	....	....	.10	....	....	....	0.30
Sullivan[2]	....do	....	....	....	....	....	....	T.	T.	T.	....	....	.13	....	....	....	....	....	....	T.	....	....	....	T.	T.	.02	T.	....	.06	....	....	....	0.21
Summersville[2]	Black	....	....	....	T.	....	T.	T.	T.	....	....	....	.03	....	....	....	....	....	....	.01	....	....	....	....	....	*T.*	....	....	.24	....	....	....	0.28
Union[2] ....1½ mi. SE	Meramec	....	....	....	....	....	....	....	....	....	....	....	.14	....	....	....	....	....	....	.01	....	....	....	....	....	....	....	....	.08	....	....	....	0.23
Valley Park[2]	....do	....	....	....	....	....	....	T.	T.	....	....	....	.10	....	....	....	....	....	....	.02	....	....	....	T	T.	T.	....	....	*.06*	....	....	....	§0.18
Van Buren[2]	Black	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.32	....	....	....	....	....	....	....	....	.16	....	....	....	0.48
Vichy[3] ..... 2 miles NW	Meramec	....	....	....	....	....	T.	T.	T.	T.	....	.03	T.	....	....	....	T.	....	T.	....	....	....	T.	T.	T.	T.	T.	....	.22	....	....	....	0.25
Wappapello Dam[2]	St. Francis	....	....	....	....	....	....	T.	*T.*	....	....	....	....	....	....	....	....	....	....	.28	....	....	....	....	....	....	T	....	.15	....	....	....	0.43
Webster Groves	Mississippi	....	....	....	....	....	T.	....	*T.*	....	....	....	.10	....	....	....	....	....	T.	T.	....	....	....	....	T.	....	....	....	.21	....	....	....	0.31
Weingarten	....do	....	....	....	....	....	*T.*	....	*T.*	....	....	....	.10	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	*.20*	....	....	....	§0.30
West Plains[3]	Black	....	....	T.	....	....	....	.01	T.	T.	....	.01	T.	....	....	....	....	....	.39	.02	....	....	.02	....	T.	T.	....	T.	.40	....	....	....	0.85
Williamsville[2]	....do	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.62	....	....	....	....	....	....	....	....	.17	....	....	....	0.79
Willow Springs[2] 500 ft E	White	....	....	....	....	....	....	....	....	....	....	....	.08	....	....	....	....	....	....	.12	....	....	....	....	....	....	....	....	.32	....	....	....	0.52
Winona Ranger Sta.[2]	Black	....	....	....	....	....	....	....	....	....	T.	T.	.24	....	....	....	....	....	....	....	....	....	....	T.	....	....	....	....	.25	....	....	....	0.49
Zalma[2]	Mississippi	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.20	....	....	....	....	....	....	....	....	.19	....	....	....	0.39
Cairo, Ill.[1], [5]	....do	T.	....	.01	....	....	T.	T.	....	....	....	....	.01	....	....	....	....	....	.24	....	....	T.	.01	....	T.	.01	....	....	.27	....	....	....	0.55
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....

Except as otherwise indicated, amounts are for 24 hours ending late in afternoon. [1] Midnight to midnight. [2] Measured in the morning; for the preceding 24 hours. [3] Data for 24 hours ending 12:30 A. M. (C. S. T.) of following day. [5] Recording gage. T. Trace or 0.005 inch or less. * Included in next measurement. // Windshield on gage. Italics data interpolated. § Partly interpolated. (A) Record from cooperative station gage. (B) Record from river station gage. (C) Airport. ‡ Received too late to be included in means and extremes.

Daily Evaporation (inches), Mean Temperature (F°), and Wind Movement (miles) for February 1947

(See precipitation data in daily precipitation table)

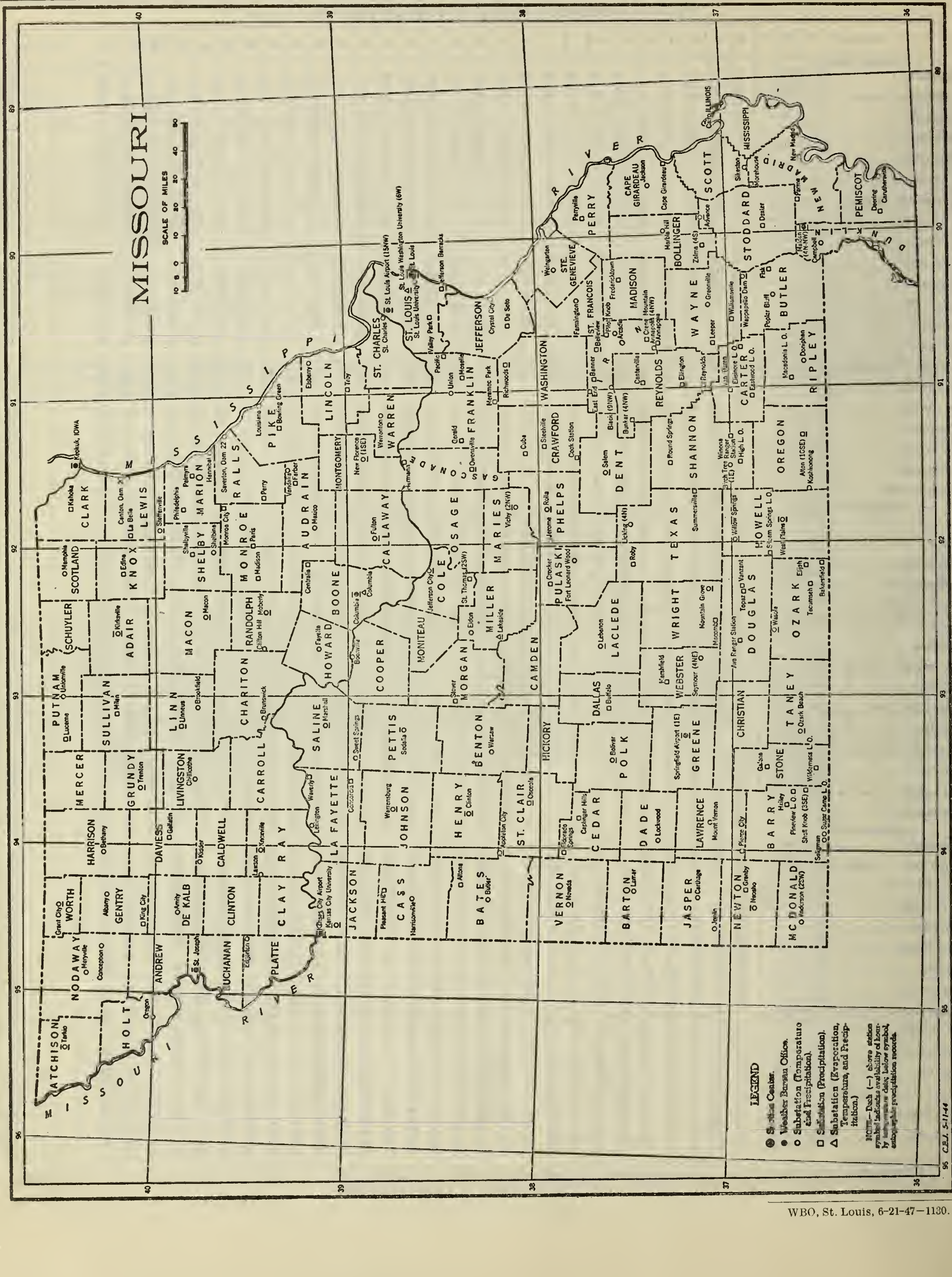
Station	Data	Day of month																															Monthly
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	..	..	..	
Columbia...... (Univ. of Mo. Hort. Exp. Sta. 9 mi. WNW.)	Evaporation	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.....
	Mean temperature	24	31	42	18	22	36	15	10	13	20	34	40	40	50	44	44	38	36	22	24	24	30	18	23	26	26	23	27	..	..	..	28.4
	Wind movement	131	111	226	234	105	107	211	194	141	82	16	19	63	150	131	79	52	100	80	23	81	89	180	174	151	139	70	56	..	..	..	3,195
Lakeside...... (Osage Dam)	Evaporation	*	*	.309	*	*	.280	....	....	....	....	....	....	....	....	....	....	....	.089	....	....	....	....	....	....	....	....	....	....	....	....	....	.....
	Mean temperature	26	33	41	28	28	32	29	14	15	22	28	38	39	42	48	33	42	34	26	28	30	24	22	25	27	26	24	24	..	..	..	29.6
	Wind movement	65	70	136	187	143	52	150	221	131	103	51	15	7	42	87	40	60	39	66	48	68	38	121	132	120	108	79	42	..	..	..	2,421
St. Louis...... (Washington University)	Evaporation	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.....
	Mean temperature	26	30	38	15	20	26	16	10	14	22	29	34	40	44	43	36	42	32	24	27	29	28	20	24	26	30	26	26	..	..	..	27.8
	Wind movement	36	56	91	118	105	26	86	92	68	57	26	30	7	32	85	30	43	70	96	79	68	42	93	91	71	63	43	54	..	..	..	1,758

Observations taken at 8:00 a. m. except at 5:00 p. m. at Columbia. For Lakeside and St. Louis (Washington University) descriptions see April 1932 and August 1938 reports, respectively. * Included in next measurement.

Daily Temperatures for February 1947

Stations		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	..	..	..	Mean
Northern Division																																	
Brunswick /	Maximum..	25	50	51	18	37	45	14	15	21	34	37	51	57	59	55	36	47	36	33	32	39	28	25	31	33	32	34	28	..	..	..	35.8
	Minimum ..	14	13	22	6	5	11	3	2	5	7	10	26	25	25	27	27	24	24	13	13	12	12	10	10	19	19	13	13	..	..	..	14.6
Chillicothe Airport....	Maximum..	29	49	48	17	34	42	22	14	21	34	38	50	58	56	55	39	48	33	32	32	39	28	24	31	30	31	33	28	..	..	..	35.5
	Minimum ..	10	13	8	3	5	18	–1	6	4	6	20	25	24	34	25	23	23	18	10	15	9	13	8	18	19	13	11	20	..	..	..	14.3
Columbia	Maximum..	33	51	54	19	38	47	23	15	21	36	40	50	57	60	58	44	50	37	34	33	37	30	27	32	32	34	36	30	..	..	..	37.8
	Minimum ..	15	15	10	6	10	22	5	6	7	9	26	33	30	38	32	32	31	22	15	21	14	20	11	18	21	20	14	24	..	..	..	18.8
Fayette............	Maximum..	31	51	52	23	37	45	23	15	20	34	39	49	56	59	56	50	51	40	29	32	38	35	25	30	31	32	34	30	..	..	..	37.4
	Minimum ..	15	13	23	5	6	22	3	3	4	7	19	29	28	38	29	32	22	28	11	19	10	21	9	17	19	20	10	23	..	..	..	17.3
Grant City	Maximum..	26	45	35	12	41	37	17	10	19	32	37	50	59	50	55	47	42	35	31	26	40	38	20	28	25	29	32	29	..	..	..	33.8
	Minimum ..	1	3	1	–1	5	17	–7	1	2	5	20	26	29	35	25	27	22	18	8	18	6	8	6	15	16	15	15	20	..	..	..	12.7
Hannibal	Maximum..	29	45	52	19	30	30	18	16	18	32	41	47	54	57	54	42	47	35	30	35	34	27	21	29	32	35	34	30	..	..	..	34.8
	Minimum ..	14	13	5	3	4	15	2	4	3	9	18	31	29	35	30	31	29	16	10	19	15	13	7	14	19	19	17	22	..	..	..	15.9
Kansas City Airport..	Maximum..	29	51	49	20	46	46	22	15	23	36	43	52	60	60	66	45	54	38	33	32	45	33	27	31	31	32	35	28	..	..	..	38.6
	Minimum ..	12	25	11	6	14	22	0	8	7	11	28	34	34	33	30	31	28	25	19	18	14	22	12	19	20	18	15	22	..	..	..	19.2
Kirksville............	Maximum..	*33*	45	*48*	15	33	34	28	16	19	35	45	50	52	52	55	49	43	41	32	29	36	27	20	31	28	33	34	28	..	..	..	35.2
	Minimum ..	8	10	15	1	4	19	–1	2	2	7	16	25	28	36	28	31	24	23	7	20	7	11	6	15	18	18	15	19	..	..	..	14.8
Lawson	Maximum..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
	Minimum ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
Louisiana............	Maximum..	31	46	53	29	33	35	23	17	20	36	44	46	55	59	53	51	48	47	32	36	35	29	27	31	32	35	34	34	..	..	..	37.5
	Minimum ..	19	13	28	6	7	22	4	4	5	11	14	31	22	33	32	30	31	28	13	18	20	22	10	16	20	22	15	21	..	..	..	18.5
Macon /............	Maximum..	26	50	51	18	33	40	7	16	20	34	39	49	56	58	55	35	45	31	30	32	36	28	22	30	29	34	35	26	..	..	..	34.5
	Minimum ..	12	11	20	3	3	8	4	1	3	3	7	18	28	29	30	31	25	25	9	10	8	9	7	8	15	18	12	19	..	..	..	13.4
Maryville	Maximum..	24	46	40	14	34	38	19	12	19	33	38	50	61	51	60	49	44	36	29	28	43	41	21	28	28	29	31	29	..	..	..	34.8
	Minimum ..	0	4	3	0	5	19	–5	3	2	5	22	26	28	32	24	30	26	23	14	19	7	14	6	13	16	9	11	20	..	..	..	13.4
Mexico /............	Maximum..	26	48	51	18	38	43	21	13	18	34	41	48	56	58	56	36	50	31	31	33	39	23	24	30	29	33	34	29	..	..	..	35.4
	Minimum ..	15	13	13	5	5	10	10	3	4	7	8	24	27	27	31	31	29	28	12	13	13	13	9	10	18	19	12	15	..	..	..	15.1
Moberly /	Maximum..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
	Minimum ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
Oregon	Maximum..	29	51	43	18	41	42	25	14	24	36	39	50	62	55	68	47	53	39	32	31	43	43	25	31	28	32	35	28	..	..	..	38.0
	Minimum ..	2	15	12	1	9	24	–6	4	3	6	25	25	31	35	26	31	28	23	15	22	8	16	8	15	15	17	14	22	..	..	..	15.9
St. Charles /............	Maximum..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
	Minimum ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
St. Joseph	Maximum..	20	52	44	18	43	43	20	12	20	36	43	51	62	54	66	44	53	37	33	31	46	30	25	31	28	30	31	27	..	..	..	36.8
	Minimum ..	6	18	9	3	11	20	–4	6	4	8	26	28	34	34	26	33	28	21	17	15	13	17	10	17	16	16	14	20	..	..	..	16.6
Trenton	Maximum..	29	49	47	18	30	41	*21*	15	20	35	40	51	58	54	55	42	51	41	33	31	40	30	22	31	30	33	35	31	..	..	..	36.2
	Minimum ..	11	*10*	*12*	*2*	7	*20*	*–2*	4	*4*	*6*	*16*	26	32	*35*	28	28	29	25	11	24	9	14	8	17	19	18	16	21	..	..	..	16.1
Unionville /	Maximum..	19	45	44	12	27	30	6	13	17	32	40	50	56	48	54	33	43	28	32	27	34	24	19	29	26	31	31	21	..	..	..	31.1
	Minimum ..	5	3	17	–1	–1	7	–2	–5	1	1	4	22	27	28	26	25	24	20	5	6	4	5	4	6	14	17	11	12	..	..	..	10.2
Warrenton	Maximum..	31	47	57	40	35	43	22	16	20	36	42	40	56	61	55	53	50	45	32	38	38	37	28	32	31	37	37	31	..	..	..	38.9
	Minimum ..	19	9	34	5	4	22	6	3	5	7	14	30	23	36	31	32	29	27	11	14	11	20	9	15	20	18	12	22	..	..	..	17.4
Keokuk, Iowa.........	Maximum..	21	45	47	9	23	22	14	12	16	29	42	48	55	51	54	43	45	32	29	33	28	27	18	28	31	33	33	27	..	..	..	32.0
	Minimum ..	14	13	4	3	5	14	–2	2	3	10	20	32	34	30	30	33	32	16	11	21	14	15	8	15	21	20	16	20	..	..	..	16.2
Southwestern Division																																	
Clinton............	Maximum..	33	51	54	22	45	50	25	19	23	34	36	52	55	64	67	43	54	35	37	34	41	32	29	33	34	33	38	30	..	..	..	39.4
	Minimum ..	16	17	12	7	9	25	5	6	5	9	25	27	28	35	33	25	25	24	21	21	14	22	11	21	19	14	15	25	..	..	..	18.4
Eldon	Maximum..	35	53	58	30	42	52	25	18	23	35	42	52	58	65	60	56	57	43	35	39	43	40	27	30	32	34	36	38	..	..	..	41.4
	Minimum ..	17	16	30	7	9	24	8	4	5	9	21	28	32	38	31	32	29	26	14	16	14	22	10	19	20	15	20	14	..	..	..	18.9
Harrisonville /	Maximum..	31	51	55	24	41	48	11	20	21	37	38	52	59	65	65	40	53	38	32	32	45	33	30	34	35	35	39	28	..	..	..	39.0
	Minimum ..	13	14	24	5	6	12	6	2	9	5	8	27	26	27	29	29	23	25	19	19	9	12	10	11	13	13	10	14	..	..	..	15.0
Jefferson City	Maximum..	35	52	56	28	40	48	25	18	21	36	43	47	58	62	59	51	52	42	34	37	41	33	28	31	31	35	36	30	..	..	..	39.6
	Minimum ..	19	13	27	7	9	24	6	4	6	6	18	31	21	39	32	30	30	27	14	15	14	20	10	18	20	18	13	23	..	..	..	18.4
Joplin Airport........	Maximum..	35	51	56	25	47	51	27	22	24	34	46	50	55	64	65	50	61	40	40	41	45	43	29	35	32	35	36	32	..	..	..	41.8
	Minimum ..	18	23	18	10	15	25	6	7	6	9	28	31	30	39	30	30	30	30	23	21	18	25	17	18	20	14	18	28	..	..	..	21.0
Lamar /............	Maximum..	38	54	60	28	48	52	22	25	27	35	43	50	57	69	65	45	60	40	41	42	45	40	33	37	35	38	39	34	..	..	..	42.9
	Minimum ..	16	16	25	9	9	14	20	5	4	4	6	29	26	26	25	25	26	30	22	21	15	15	15	14	19	13	13	14	..	..	..	17.0
Lebanon	Maximum..	42	50	57	46	43	49	30	20	20	33	39	49	58	61	62	61	59	56	38	40	58	41	31	30	31	32	38	35	..	..	..	43.2
	Minimum ..	17	15	35	6	8	30	7	2	2	4	17	28	28	39	32	33	28	30	15	15	13	27	10	19	18	12	11	25	..	..	..	18.8
Lexington /	Maximum..	45	62	54	32	44	46	12	14	24	31	43	56	60	63	62	44	43	38	37	34	40	24	25	28	34	33	36	27	..	..	..	39.0
	Minimum ..	11	15	38	5	10	28	4	3	5	8	24	28	38	38	28	34	25	27	16	23	11	20	10	18	18	12	13	25	..	..	..	19.1
Marshall	Maximum..	34	51	50	26	39	45	26	16	21	35	39	50	56	59	59	57	50	45	34	33	40	39	36	31	31	31	33	32	..	..	..	38.9
	Minimum ..	15	16	21	5	10	25	3	5	5	8	22	22	29	30	31	24	22	29	13	20	12	21	10	19	20	18	14	15	..	..	..	17.3
Mountain Grove	Maximum..	39	46	57	49	40	50	32	18	18	34	40	46	58	60	61	57	53	52	38	42	44	46	33	30	30	32	39	37	..	..	..	42.2
	Minimum ..	21	17	31	8	11	30	7	3	4	6	22	28	28	37	32	35	29	27	17	17	17	31	12	19	18	14	14	27	..	..	..	20.1
Neosho............	Maximum..	50	53	57	47	51	52	37	23	23	36	44	51	59	65	68	66	65	61	41	43	47	49	38	36	33	35	38	37	..	..	..	46.6
	Minimum ..	20	18	41	12	10	32	8	6	7	3	24	32	24	38	25	32	29	35	24	18	15	26	18	19	21	13	17	30	..	..	..	21.3
Nevada	Maximum..	41	53	57	32	48	50	34	23	26	36	40	50	58	66	66	56	60	49	42	40	46	42	33	33	34	35	41	34	..	..	..	43.8
	Minimum ..	16	20	*28*	8	9	32	4	3	3	3	24	25	27	38	26	38	25	31	20	21	13	26	13	17	19	12	12	25	..	..	..	19.2
Sedalia............	Maximum..	35	52	52	28	40	47	27	15	22	34	38	49	55	61	58	57	50	45	34	35	39	38	31	31	33	32	34	33	..	..	..	39.5
	Minimum ..	15	17	28	6	9	27	8	5	5	7	23	29	29	37	31	31	24	31	16	19	13	22	10	19	19	13	12	24	..	..	..	18.9
Springfield....4 mi. NW	Maximum..	35	50	55	20	45	48	22	18	17	32	37	48	57	61	64	50	55	40	36	38	43	40	27	30	28	30	35	30	..	..	..	39.0
	Minimum ..	17	18	14	8	11	21	5	4	3	5	25	28	26	37	30	30	30	26	20	17	15	23	13	18	19	13	13	26	..	..	..	18.4
Warrensburg..........	Maximum..	36	49	53	26	41	47	28	17	22	34	35	50	55	61	57	53	47	47	35	35	41	42	27	32	31	32	35	33	..	..	..	39.3
	Minimum ..	15	19	26	7	11	28	4	6	6	9	25	28	30	37	30	32	24	31	17	22	13	22	12	20	19	15	14	25	..	..	..	19.5
Southeastern Division																																	
Arcadia /	Maximum..	36	45	56	25	38	50	22	20	23	40	46	40	58	67	61	42	55	35	37	43	44	40	29	34	30	37	40	32	..	..	..	40.2
	Minimum ..	17	12	12	9	9	9	20	2	4	5	9	17	19	20	34	30	30	29	17	16	19	20	13	12	18	18	16	16	..	..	..	16.1
Birch Tree.... ½ mile E	Maximum..	39	46	56	53	45	48	42	20	22	39	42	45	57	64	60	63	52	50	37	42	45	50	48	31	32	35	41	38	..	..	..	44.4
	Minimum ..	27	10	31	9	10	25	9	5	6	2	14	27	19	26	34	33	32	27	20	18	19	21	15	19	19	14	12	27	..	..	..	18.9
Caruthersville.........	Maximum..	47	43	58	55	38	55	53	28	30	38	39	46	55	68	65	60	54	50	40	42	44	54	48	35	36	40	43	40	..	..	..	46.6
	Minimum ..	31	21	35	15	15	32	24	8	9	11	21	33	27	30	38	37	35	37	26	25	23	28	23	20	28	18	25	30	..	..	..	25.2
Crystal City	Maximum..	35	45	59	53	36	48	32	19	24	40	48	43	57	65	59	52	53	52	33	42	39	38	30	35	32	38	39	35	..	..	..	42.2
	Minimum ..	27	15	35	10	10	29	12	6	8	10	15	30	20	29	35	30	34	31	18	20	25	24	14	19	23	20	14	25	..	..	..	21.0
Doniphan............	Maximum..	45	46	57	52	42	60	47	30	29	42	41	48	59	71	66	62	56	49	37	48	49	55	44	40	37	42	46	41	..	..	..	46.8
	Minimum ..	22	11	29	13	9	29	17	6	8	4	12	30	17	27	35	28	29	28	24	21	15	19	19	20	24	12	12	23	..	..	..	19.4
Farmington	Maximum..	38	43	56	53	36	49	34	18	23	38	45	40	56	64	58	54	51	49	33	38	40	39	31	33	32	35	38	34	..	..	..	41.4
	Minimum ..	26	13	32	8	8	30	13	2	5	9	11	27	20	35	34	35	31	26	16	17	20	20	11	17	20	17	15	24	..	..	..	19.4
Jackson	Maximum..	40	42	51	50	34	54	41	21	27	38	42	46	56	69	61	53	52	49	38	40	42	42	36	35	35	40	41	37	..	..	..	43.3
	Minimum ..	23	15	30	12	10	30	19	6	9	9	14	29	19	25	37	28	34	27	19	21	19	20	16	20	23	18	15	26	..	..	..	20.5
Poplar Bluff...........	Maximum..	43	44	56	48	40	58	52	26	29	49	40	46	57	70	63	60	54	49	37	45	47	52	43	38	37	42	45	37	..	..	..	46.7
	Minimum ..	26	16	28	14	11	31	20	7	9	10	17	31	22	26	40	32	34	29	23	22	21	26	21	20	27	19	19	29	..	..	..	22.5
Rolla /............	Maximum..	34	48	52	34	42	42	17	18	19	35	41	38	58	58	55	35	52	33	33	38	40	29	26	32	24	24	34	27	..	..	..	36.4
	Minimum ..	19	15	33	5	8	15	15	2	4	6	18	28	26	37	32	33	29	30	14	15	15	21	9	15	19	13	13	23	..	..	..	18.3
St. Louis...........	Maximum..	32	43	56	20	32	41	21	15	19	35	44	42	54	60	52	45	52	40	33	35	36	31	24	31	30	33	35	32	..	..	..	36.5
	Minimum ..	23	19	11	8	9	21	5	6	8	13	26	30	32	39	33	35	34	23	17	20	22	20	13	17	23	23	19	26	..	..	..	20.5
Salem	Maximum..	36	47	57	45	40	48	29	20	20	37	45	42	58	62	60	51	55	46	35	40	42	38	27	31	33	32	37	33	..	..	..	40.9
	Minimum ..	23	14	33	8	8	29	10	2	4	7	16	28	24	30	33	34	30	27	16	17	17	24	11	17	20	15	14	25	..	..	..	19.1
Sikeston /	Maximum..	43	42	53	29	37	56	32	24	22	38	40	44	55	66	57	50	52	43	34	40	42	45	32	36	35	41	42	36	..	..	..	41.6
	Minimum ..	22	17	21	13	13	13	22	7	8	10	10	24	24	24	32	30	35	33	23	21	21	23	20	20	22	18	18	19	..	..	..	20.1
Union ....1½ mi. SE	Maximum..	34	46	56	42	34	42	27	17	20	35	45	41	55	60	54	48	50	46	32	38	38	38	27	33	32	35	35	34	..	..	..	39.1
	Minimum ..	23	14	36	8	8	26	7	5	8	9	15	31	20	27	33	28	31	26	13	18	20	20	12	18	21	20	15	23	..	..	..	19.1
West Plains	Maximum..	38	47	57	25	41	53	26	21	23	39	40	48	58	65	63	57	54	40	37	44	44	50	29	34	31	35	41	31	..	..	..	41.8
	Minimum ..	15	13	21	10	9	23	7	5	6	7	14	22	20	23	31	32	32	26	22	12	16	24	16	21	20	16	15	28	..	..	..	18.1
Cairo, Ill.	Maximum..	40	40	54	29	32	53	29	22	26	36	40	43	54	64	52	48	52	41	35	40	40	42	31	33	34	40	39	37	..	..	..	40.2
	Minimum ..	27	22	29	14	14	27	13	8	11	13	23	32	28	33	39	34	36	27	24	24	26	28	20	22	26	23	24	28	..	..	..	24.1

/ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs. [a], [b], [c], etc., number of days missing, for example, [b] indicates two days missing. Italics data interpolated. § Partly interpolated.



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CLIMATOLOGICAL DATA

MISSOURI SECTION

H. F. WAHLGREN
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Vol. LI — March 1947 — No. 3

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29 1947

GENERAL SUMMARY

March 1947 was a decidedly cold month, with unusually heavy snowfall and a very unfavorable month for seasonal plowing and planting operations. This work was two weeks, or more, behind normal advancement at the close of the month, and was in marked contrast to the same month a year ago, which was the second warmest March of record, with very little snowfall, and all vegetation and field work were about four weeks ahead of normal advancement as that month closed.

This month was the coldest March since 1915 and the 7th coldest of its name of record (1888-1947). Although no unusually low temperatures were reported, 7° below zero being the lowest for the entire State, the cold was persistent and daily averages were generally well below normal throughout the entire month, except for brief periods from the 11-13th and 22-23d, when normal or above occurred. The maximum temperature of 77° was the third lowest maximum for March in the past 60 years. Minimum temperatures of 32°, or lower, occurred on an average of 23 days this month, compared to only 4 days during March a year ago. The 3d was the coldest and the 22d the warmest day of the month, as a rule. Average temperatures for March by divisions, with departures from normal, were as follows: Northern, 34.8°, —6.6°; Southwestern, 38.3°, −7.1°; Southeastern, 39.1°, −7.7°; for the State, 37.4°, —6.7°.

Precipitation during March was from both rain and snow and was rather unevenly distributed, ranging from a total of 5.58 inches at Polo, to only 1.12 inches at Doniphan. Although the average for the State was slightly below normal, the frequency of the month's precipitation kept the soil too wet to work during most of the time, rain or snow occurring on an average of 11 days, or 3 more than normal for March. The Northern Division received the most moisture during the month, with an average of 3.26 inches, or 0.69 inch more than normal. The averages and departures for the Southwestern and Southeastern Divisions were 2.97 inches, —0.15 inch and 2.16 inches, −1.85 inches, respectively. This was the third consecutive month that the precipitation averaged less than normal, for the State as a whole. Snowfall during March was unusually heavy, particularly over the Northern Division, where monthly totals ranged from about 4 to as much as 26 inches, the latter amount being recorded at Mexico, Audrain County. Average snowfall for the State was 8.8 inches, the third heaviest in the 57 years for which records are available and the greatest March average since 1931, when the average for the State was also 8.8 inches. Over much of the central portion of the State the ground was covered with 6 to 7 inches of snow during the first few days of the month, which did not entirely melt until after the first week, as a rule. Subsequent snowfall during the month melted rather quickly and the ground was not covered anywhere for more than a day or two at any time. At St. Joseph the greatest 24-hour snowfall of record, for that station, occurred on the 5th, when a total of 11.2 inches was recorded.

There was only one damaging storm reported during March, which is rather unusual for that month. (For details see special storm table).

(Continued on page 19)

PRESSURE, WIND, HUMIDITY, AND SUNSHINE

Stations	Sea-level pressure, extremes-inches				Wind				Relative humidity				Percentage of sunshine	Degree days
	Highest	Date	Lowest	Date	Average hourly velocity	Maximum velocity ¶	Direction of maximum	Date	12:30 a. m.	6:30 a. m.	12:30 p. m.	6:30 p. m.		
Columbia	30.39*	10	29.46*	24	8.9	28	nw.	24	71*	77*	57*	59*	49	880
K. C. Airport	30.39	10	29.42	23	12.2	35	nw.	24	72	79	61	62	40	848
St. Joseph	30.39*	6	29.38*	23	9.8	26	nw.	24	78*	82*	62*	64*	46	886
St. Louis	30.42*	10	29.38*	24	13.1	37	sw.	23	74*	74	59	64*	53	862
Springfield	30.34	10	29.44	24	13.4	40	nw.	13	77	83	66	66	54	850
Cairo, Ill.	30.40	10	29.33	24	10.7	38	nw.	24	..	79	60	..	58	723
.....	.....	..	.....	..	....	..	......	..	..	..	..	..	..	....

* Data for Airport station. ¶ For 5-minute period.

COMPARATIVE DATA FOR MARCH

Year	Temperature			Precipitation					Number of days			
	Average for State	Highest	Lowest	Average for State	Average, Northern Division	Average, Southwestern Division	Average, Southeastern Division	Snowfall, Average for State	Precip. .01 inch or more	Clear	Partly cloudy	Cloudy
1888	38.5	90	1	3.90	4.13	4.37	3.19	....	10	..	..	..
1889	44.3	84	13	2.22	1.26	3.37	2.02	....	5	..	..	..
1890	37.3	79	−11	3.51	2.00	2.40	6.12	5.7	8	..	..	..
1891	36.6	78	−11	2.66	3.03	2.26	2.68	7.1	10	..	..	..
1892	38.9	87	5	2.98	3.31	3.46	2.18	....	8	8	10	13
1893	40.5	86	0	2.92	2.49	2.71	3.57	3.2	7	11	10	10
1894	47.7	89	2	3.22	2.29	2.95	4.43	0.2	6	15	9	7
1895	42.4	98	0	2.36	1.49	2.39	3.21	4.4	9	14	7	10
1896	39.2	82	2	2.22	1.15	2.04	3.47	5.2	8	11	9	11
1897	44.2	82	− 5	6.73	4.38	5.62	10.18	1.0	12	9	9	13
1898	44.7	83	9	7.44	5.26	6.42	10.63	0.6	11	11	7	13
1899	37.4	78	− 8	2.92	3.19	2.34	3.23	8.9	10	9	11	11
1900	40.4	88	− 4	1.62	1.43	1.35	1.79	0.2	6	15	9	7
1901	42.7	85	− 1	3.77	3.33	4.21	3.77	1.8	8	11	8	12
1902	45.3	85	1	3.71	2.50	4.64	3.99	0.8	9	10	10	11
1903	46.8	81	9	3.62	2.34	4.17	4.34	1.1	8	13	7	11
1904	44.8	87	8	4.55	3.54	3.13	6.98	1.2	9	11	9	11
1905	50.3	88	10	3.15	2.27	3.36	3.83	T.	8	11	8	12
1906	34.6	75	− 5	3.98	2.63	3.12	6.18	8.6	11	6	7	18
1907	53.9	95	16	2.76	2.54	3.05	2.70	1.0	7	14	7	10
1908	50.1	89	14	2.98	1.38	3.33	4.22	1.0	7	14	7	10
1909	44.5	81	9	3.03	2.24	2.01	4.83	0.6	6	13	9	9
1910	55.8	96	15	0.77	0.26	1.00	1.05	0.1	2	20	7	4
1911	46.8	91	5	1.72	1.71	1.84	1.62	1.4	6	16	8	7
1912	35.2	89	− 4	4.69	3.69	5.25	5.12	16.5	11	12	6	13
1913	40.6	84	−12	4.64	3.44	4.52	5.95	5.0	9	12	8	11
1914	43.2	87	− 2	2.76	2.80	2.89	2.59	4.7	8	13	7	11
1915	36.4	70	6	1.45	1.20	2.01	1.15	7.9	6	7	8	16
1916	47.0	95	− 2	2.55	2.48	3.20	1.98	3.1	7	14	8	9
1917	45.2	86	− 7	2.69	2.70	2.80	2.57	1.5	7	15	7	9
1918	50.9	95	8	1.02	0.46	1.55	1.06	0.1	4	18	6	7
1919	46.3	90	− 2	2.40	2.27	1.44	3.49	0.7	6	15	8	8
1920	44.6	86	− 6	5.12	4.60	5.37	5.40	1.4	8	15	6	10
1921	51.9	90	11	5.06	3.52	5.32	6.34	0.5	10	13	9	9
1922	45.6	80	3	6.39	4.89	6.78	7.51	2.2	12	11	6	14
1923	40.4	83	−11	4.23	3.53	3.64	5.52	2.3	8	14	6	11
1924	38.4	80	8	2.54	2.52	2.40	2.71	9.4	8	8	8	15
1925	47.7	86	− 5	1.94	1.77	1.98	2.07	0.8	5	17	8	6
1926	39.6	83	8	2.87	2.15	2.82	3.63	7.0	8	13	6	12
1927	45.9	80	0	5.93	4.08	6.88	6.83	3.7	11	12	8	11
1928	46.3	89	10	1.61	1.00	1.58	2.24	2.4	5	15	9	7
1929	48.6	97	11	3.33	2.99	3.13	3.88	T.	8	12	8	11
1930	43.2	80	6	1.38	1.19	0.91	2.04	1.4	4	18	6	7
1931	39.5	70	10	3.18	2.57	3.05	3.91	8.8	8	11	7	13
1932	38.3	81	− 2	1.99	1.39	1.62	2.96	2.8	7	12	9	10
1933	44.1	87	5	3.61	3.05	2.79	4.99	2.0	10	11	8	12
1934	41.2	82	− 3	2.55	1.53	2.10	4.03	4.9	7	13	8	10
1935	50.4	87	8	5.76	2.46	5.10	9.73	0.7	9	10	10	11
1936	49.4	84	13	1.27	0.82	1.00	1.98	T.	5	16	9	6
1937	40.4	77	6	1.66	1.27	2.15	1.56	2.8	6	12	8	11
1938	53.6	90	14	4.98	3.73	4.42	6.79	T.	12	13	7	11
1939	47.1	89	− 4	3.08	3.33	2.20	3.70	0.2	8	15	7	9
1940	43.1	89	0	2.44	2.07	2.43	2.83	4.0	8	9	9	13
1941	40.5	78	7	0.78	0.86	0.76	0.72	3.4	5	13	9	9
1942	45.8	84	8	2.05	2.05	1.48	2.63	0.7	7	12	8	11
1943	39.7	87	−22	2.63	1.41	2.58	3.90	5.0	8	13	9	9
1944	41.4	83	6	3.78	4.10	3.85	3.39	2.7	12	10	8	13
1945	52.6	89	2	7.44	5.10	6.98	10.25	1.0	12	13	7	11
1946	55.3	92	12	2.82	3.52	1.93	3.00	0.2	9	10	10	11
1947	37.4	77	− 7	2.80	3.26	2.97	2.16	8.8	11	10	9	12
.....	....	..	....	....	....	....	....	....	..	..	..	..
Period	**44.1**	**98**	**−22**	**3.23**	**2.57**	**3.12**	**4.01**	**3.0**	**8**	**12**	**8**	**11**

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Climatological Data for March 1947

Stations	Counties	Elevation, feet	Temperature, in degrees Fahr.							Precipitation, in inches						Number of days				Prevailing direction of wind	Observers
			Length of record, years	Mean	Departure from the normal	Highest	Date	Lowest	Date	Length of record, years	Total	Departure from the normal	Greatest in 24 hours[4]	Date	Total snowfall, unmelted	With precip., .01 inch or more	Clear	Partly cloudy	Cloudy		
Northern Division																					
Albany	Gentry	930	6	35.4[b]	......	76[b]	22	-5[b]	3	18	3.88	+2.19	0.97	12	13.5	11	5[d]	14[d]	8[d]	s.	Curtis E. Grace
Amity	DeKalb	1,007	1	34.8	......	75	22	0	3	12	4.85§	+2.58	1.27	12-13	16.9	13	4	4	23	nw.	O. M. Colhour
Bethany	Harrison	916	52	34.3	-6.0	74	22	-7	3	54	2.92§	+0.69	0.90	12	10.0§	12	11	5	15	se.	B. A. McGregor
Brookfield	Linn	767	6	34.2	......	72	22	1	3	6	4.01	......	1.45	12-13	*18.2*	14	8	10	13	ne.	G. F. Breen
Brunswick	Chariton	652	66	34.6	-7.3	72	22	9	3	68	3.77	+1.07	1.43	13	15.0	14	15	3	13	nw.	O. K. Benecke
Canton, Lock & Dam 20	Lewis	488	9	35.1	-6.9	64	23	7	3	17	2.21	-0.13	0.85	12-13	8.2§	11	9	8	14	nw.	Lockmaster
Carrollton	Carroll	754	1	35.8	......	72	22	-1	3	1	4.94	......	1.47	12-13	13.5	11	8	12	11	nw.	Harold E. Finley
Chillicothe 2 mi ESE(C)	Livingston	771	38	33.4	-8.3	71	22	-1	3	41	4.19	+1.71	1.60	12-13	14.7	14	4	11	16	nw.	Civil Aeronautics Adm.
Columbia	Boone	740	57	36.4	-6.5	74	22	9	3	57	3.93	+0.99	0.85	12-13	15.8	11	9	7	15	w.	U. S. Weather Bureau
Conception	Nodaway	1,108	58	34.8	-5.0	75	22	3	3	63	3.57	+1.92	1.02	12-13	9.5§	10	3	12	16	nw	Fr. Adelhelm Hess
Edgerton	Platte	856	27	....	......	..	..	..	..	44	....	......	....	..	....	..	..	..	..	......	....
Elsberry	Lincoln	449	16	35.2	-8.3	71	22	6	3	16	3.20	+0.44	1.29	12-13	18.3	8	13	5	13	n.	Soil Conservation Service
Fayette	Howard	760	67	35.4	-6.5	73	22	2	3	64	3.93§	+1.11	1.21	12-13	18.0	11	8	4	19	n.	Irvin E. Schnell
Fulton	Callaway	818	59	35.0	-9.1	71	22	0	3	55	2.72§	-0.24	1.43	31	19.9	11	19	5	7	nw.	Frank E. Hillgartner
Grant City	Worth	1,134	43	34.0	-7.3	75	22	1	3	55	3.20§	+1.19	1.05	12	9.8	10	7	9	15	n.	J. Homer Korn
Hannibal	Marion	759	55	34.6	-6.4	68	22†	7	3	63	2.69	+0.09	1.14	12-13	11.0	11	7	12	12	nw.	Hannibal Water Dept.
Kansas City Airport	Jackson	741	58	37.6	-5.1	74	22	8	3	58	5.03	+2.72	2.42	12-13	8.6	13	4	10	17	n.	U. S. Weather Bureau
Kansas City Univ.	Jackson	908	9	37.6	-8.4	75	22	5	3	9	4.90	+2.09	1.95	11-12	9.1	13	9	7	15	sw.	University of Kansas City
Kidder	Caldwell	1,020	55	34.3	-6.5	72	22	4	3	59	3.97	+1.78	2.13	12-13	17.5§	12	6	9	16	n.	Mrs. Geraldine Terry
Kirksville	Adair	969	58	34.8[a]	-4.9	71[a]	22	6[a]	3	65	2.34	-0.60	0.90	12-13	*7.2*	15	14[a]	5[a]	11[a]	ne.	Arthur Lee Jones
Kirksville Airport	Adair	970	8	32.2	......	69	22	0	3	8	2.34	......	0.93	12-13	7.6	13	4	8	19	nw.	Civil Aeronautics Adm.
Lawson	Ray	1,070	9	....	......	..	..	....	..	9	....	......	....	.....	....	..	..	..	..	......	Elmer E. Lamb
Louisiana	Pike	469	53	36.2	-7.3	70	22†	6	3	66	3.60§	+0.13	*1.12*	13	20.0§	10	7	9	15	w	Stark Bro's Nurseries
Macon	Macon	875	48	32.8	-9.4	72	22	5	3†	54	2.72	-0.12	0.68	12	16.2§	16	8	5	18	nw.	John W. Atwell
Maryville	Nodaway	1,169	57	35.0	-2.9	74	22	5	3	53	3.67	+1.80	0.99	12	12.0	12	4	5	22	nw.	R. B. Montomery
Memphis	Scotland	787	8	32.6	......	69	22	5	4	17	1.44§	-0.92	0.42	12-13	9.5§	7	6	13	12	nw.	John W. Alexander
Mexico	Audrain	800	58	33.9	-8.1	71	23	6	3	69	3.61	-0.70	1.19	31-1	26.0§	11	10	8	13	nw.	Darrence W. Stuart
Moberly 3½ mi. NE	Randolph	860	10	33.2	-10.4	71	22	2	3	10	2.99§	+0.31	1.15	31-1	20.5§	12	11	9	11	w.	Robert A. Berg
New Florence. 1 mi SE	Montgomery	885	4	33.9	......	69	23	8	3	5	2.66	......	1.18	12-13	13.9	12	7	7	17	nw.	U. S. Weather Bureau
Oregon	Holt	1,048	91	36.3	-3.3	76	22	9	3	91	3.53§	+1.57	1.22	11-12	14.4§	10	16	7	8	nw.	James M. Curry
Polo	Caldwell	1,000	1	33.6	......	73	22	6	3	1	5.58	......	2.47	12-13	20.4	16	6	14	11	nw.	F. B. Albright
St. Charles	St. Charles	520	59	....	......	..	..	..	..	69	....	......	....	..	....	..	..	..	..	......	....
St. Joseph	Buchanan	957	37	36.4	-4.1	76	22	11	3	75	4.41	+1.93	2.33	12-13	15.1	14	8	14	9	nw.	U. S. Weather Bureau
Salisbury	Chariton	723	1	35.9	......	72	22	6	3	1	4.07	......	1.08	12-13	20.5§	11	8	9	14	nw.	David H. Robertson
Saverton, Lock No. 22	Ralls	472	9	35.8	......	70	22	10	3	9	2.74	-0.42	0.57	12-13	13.5§	13	15	3	13	nw.	Lockmaster
Shelbina	Shelby	779	6	34.4	......	70	22	2	3	54	3.33	+0.54	1.21	13	10.8	12	12	4	15	nw.	Guyman Hatcher
Steffenville	Lewis	650	49	34.4	-7.8	69	22	3	3	54	2.31	-0.70	0.89	13	12.5	13	7	11	13	nw.	Mrs. Fannie V. Gross
Tarkio	Atchison	916	44	34.6	-5.5	75	23	3	3	53	2.07	+0.40	1.35	12-13	3.6	9	3	10	18	nw.	Civil Aeronautics Adm.
Trenton	Grundy	822	51	35.6	-5.5	73	22	0	3	52	3.49	+1.04	1.70	13	15.0§	16	2	20	9	n.	W. H. Estes
Unionville	Putnam	1,062	54	31.4	-7.5	70	22	2	3	54	1.66	-0.84	1.01	12-13	4.5§	9	6	19	6	w.	Mrs. Dora A. Wilson
Vandalia	Audrain	766	3	34.7	......	69	22†	2	3	8	2.79	......	0.91	13	12.5	7	14	7	10	w.	Mrs. Naomi K. Stoutz
Warrenton	Warren	816	65	36.0	-6.5	70	22	5	3	57	3.73	+0.55	1.18	12-13	18.5	9	13	12	6	w.	W. T. Zimmerman
Keokuk, Iowa	Lee, Ia.	574	75	36.2	-2.7	72	23	10	3	75	1.87	-0.51	0.67	13	5.3	8	10	16	5	ne.	U. S. Weather Bureau
Division means	**and extremes**	.....	..	**34.8**	**-6.6**	**76**	**22**	**-7**	**3**	..	**3.26**	**+0.69**	**2.47**	**12-13**	**13.7**	**12**	**9**	**9**	**13**	**nw.**	
Southwestern Division																					
Anderson 1½ mi SW	McDonald	1,000	43	39.0	-9.8	72	22†	4	3	48	2.54	-1.16	1.58	12-13	*2.0*	11	18	1	12	n.	Samuel G. Chamberlain
Appleton City. 2 mi. W	Bates	813	52	37.9	-7.2	72	22	4	3	55	4.00	+0.85	1.78	11-12	2.7	14	9	12	10	nw.	F. Paul Eye
Bolivar	Polk	1,071	44	38.6	-7.7	72	22	5	3	52	3.39	-0.04	1.06	12-13	2.4	10	11	7	13	nw.	Southwest Baptist College
Boonville	Cooper	650	9	34.1	-9.2	73	22	8	3	70	4.76§	+1.72	0.85	12-13	23.5	14	7	7	17	nw.	Boonville Water Dept.
Butler	Bates	865	1	39.0	......	74	22	7	3	6	3.71	......	1.43	11-12	6.5	12	5	16	10	nw.	Harley W. Johnson
Camdenton	Pulaski	940	1	39.2[a]	......	72[a]	22	3[a]	3	1	3.74§	......	1.34	12-13	9.5	8	5[a]	18[a]	7[a]	sw.	Mo. Conservation Com.
Carthage	Jasper	962	13	40.9	......	74	22	3	3	23	3.33	......	1.46	12-13	*0.5*	9	6	19	6	ne.	Carthage W. and E. Plant
Clinton	Henry	786	54	37.2	-7.8	75	22	5	3	60	4.00	+0.64	1.59	12	3.0§	12	8	14	9	nw.	U. S. Weather Bureau
Eldon	Miller	934	52	38.3[a]	-5.3	77[a]	22	8[a]	3	48	4.18	+1.14	0.96	12-13	7.4§	11	3	18	9	nw.	Arthur Rothwell
Harrisonville	Cass	904	69	35.8	-5.5	74	22	5	2†	72	4.28	+1.48	1.45	12-13	7.5§	12	5	4	22	nw.	Jeffrey B. Patterson
Jefferson City	Cole	557	57	36.8	-6.8	73	22	5	3	65	1.67	-1.39	0.50	5-6	11.4	12	11	6	14	n.	K. W. O. S. Radio Farm
Joplin Airport	Jasper	988	25	40.4	-8.2	71	22	7	2	42	3.60	+0.40	1.61	12	0.3	9	5	6	20	s.	Civil Aeronautics Adm.
Lakeside	Miller	595	16	37.2	-7.4	72	22	3	3	16	3.58	+0.83	0.93	12-13	14.8	12	10	9	12	ne.	W. S. Frame
Lamar	Barton	980	59	38.4	-7.6	73	22	5	2	66	3.56	+0.37	2.02	12-13	1.0	9	14	3	14	nw.	Mrs. Marie Mann
Lebanon	Laclede	1,265	59	38.2	-6.8	69	22	4	3	60	3.13	-0.35	0.85	12-13	*3.0*	10	8	11	12	nw.	Mrs. Rosa E. Montelius
Lexington	Lafayette	688	62	35.8	-7.6	67	23	8	3	63	4.55§	+1.77	1.80	12-13	14.0	8	10[a]	4[a]	16[a]	ne.	Tilton Davis
Lockwood	Dade	1,078	41	39.8	-7.5	73	22	5	2	51	4.38	+0.82	1.83	12-13	2.0	9	13	6	12	nw.	Hubert A. Nieman
Marshall	Saline	779	60	36.8	-6.2	72	22	5	3	57	2.73	-0.19	1.12	11-12	15.5§	11	7	14	10	n.	Thomas A. Reid
Monett	Barry	1,317	0	38.6	......	69	22	5	2†	0	1.81	......	0.80	12-13	1.8	11	10	13	8	s.	Mo. Univ. Fruit Exp. Sta.
Mountain Grove	Wright	1,463	46	38.8	-6.6	65	22†	7	3	50	1.79	-2.08	0.55	12-13	2.3	10	10	7	14	nw.	Mo. Fruit Exp. Station
Mount Vernon	Lawrence	1,174	35	40.4	-5.5	71	22	3	3	47	2.12	-1.77	0.34	28-1	5.4§	11	6	17	8	nw.	James C. Williamson
Neosho	Newton	1,011	60	42.0	-6.1	72	22	4	3	64	2.90	-0.65	1.62	12-13	*1.2*	10	13	11	7	nw.	U. S. Fisheries Station
Nevada	Vernon	862	54	39.8	-5.1	72	22	6	3	55	4.02	+1.15	1.44	12-13	0.3	9	14	4	13	nw.	Henry Kraft
Ozark Beach	Taney	700	7	40.8	......	76	21	7	3	22	1.80	-1.29	0.70	12-13	*3.2*	8	6	15	10	nw.	Empire District Elec. Co.
Sedalia	Pettis	910	34	37.2	-5.6	72	22	5	3	36	3.63	+0.80	1.08	12-13	8.6	11	10	6	15	nw	Dr. J. E. Cannaday
Seligman	Barry	1,542	46	40.6	-6.0	67	31	6	2	44	2.21	-1.39	1.05	12-13	3.0	9	8	15	8	w.	Floyd E. Fawver
Seymour 3½ miles NE	Webster	1,642	41	34.6	-10.8	62	22	-2	3†	41	1.94	-1.72	0.56	27	3.2	8	10	2	19	nw.	Ira H. Hailey
Springfield 4 mi. NW	Greene	1,265	59	37.4	-6.2	72	22	5	3	59	2.65	-0.74	1.14	12-13	2.2	11	5	10	16	s.	U. S. Weather Bureau
Sweet Springs	Saline	700	6	36.2	......	74	22	-2	3	6	4.09	......	1.15	11-12	5.5§	12	10	13	8	n.	H. F. Nelson
Warrensburg	Johnson	878	60	38.0	-6.0	73	22	9	3	67	4.60	+1.51	1.40	12-13	4.5	10	6	13	12	nw.	Central Teachers College
Warsaw	Benton	687	46	38.8	-8.2	75	22	2	3	52	3.51	-0.04	0.92	12-13	7.2§	10	8	9	14	ne.	Dora B. Johnson
Wasola	Ozark	1,294	6	40.2	......	73	31	8	3	7	1.42	......	0.61	12-13	3.5	6	10	10	11	s.	A. W. Pinckney
Waynesville	Pulaski	805	1	....	......	..	..	..	..	1	....	......	....		....	..	..	..	..	......	Jesse H. Barlow
Division means	**and extremes**	.....	..	**38.3**	**-7.1**	**77**	**22**	**-2**	**3†**	..	**2.97**	**-0.15**	**2.05**	**12-13**	**5.6**	**10**	**9**	**10**	**12**	**nw.**	
Southeastern Division																					
Advance ¼ mile W	Stoddard	354	10	39.3	-8.7	71	31	7	3	10	2.23	-2.71	0.63	23	4.8	9	8	11	12	w.	U. S. Weather Bureau
Arcadia	Iron	926	66	36.4	-8.2	66	29	8	3	69	2.61	-1.44	0.90	5-6	14.1	5	13	0	18	w.	Arcadia College
Birch Tree ½ mile E	Shannon	1,000	52	39.5	-7.8	70	31	0	3	53	1.61	-2.37	0.52	5	1.0	10	15	8	8	nw.	Mrs. Mildred E. Catlett
Black 9 miles NW	Iron	1,000	54	36.4	-8.6	66	12	-4	3	54	2.04	-1.85	0.71	5-6	9.0§	8	11	12	8	sw.	M. L. Volner
Campbell	Dunklin	314	21	42.8	-5.2	72	31	16	3	21	1.61	-4.31	0.75	23	0.5	8	19	5	7	s.	Mrs. Ruth Christian
Cape Girardeau	Cape Girardeau	347	2	40.7	......	68	31	14	3	47	2.41	-1.43	0.57	5-6	3.1§	10	12	12	7	s.	Dr. Robert Martin
Caruthersville	Pemiscot	265	51	43.8	-7.6	73	31	16	3	55	2.16	-2.30	0.70	23-24	1.0	9	18	4	9	se.	Victor T. Malloure
Clearwater Dam	Wayne	648	1	40.8§	......	71	31	9	3	1	2.00	......	0.43	28-1	6.2	12	11	12	8	s.	U. S. Engineer Office
Crystal City	Jefferson	420	13	38.7	-6.5	67	22	7	3	13	2.53	-0.15	0.78	27	16.0	12	9	5	17	nw.	Richard K. Ragland
Doniphan	Ripley	344	43	42.5	-6.5	75	29†	8	3	43	1.12	-3.27	0.29	23	*T.*	7	18	3	10	nw.	Boyce Lackey
Farmington	St. Francois	896	36	38.0	-8.5	65	12	11	3	50	2.10§	-1.82	0.60	26-27	14.6§	12	10	6	15	nw.	F. M. Karsch
Greenville	Wayne	460	38	40.4	-7.3	71	31	6	3	40	1.94§	-2.32	0.55	5	2.5§	8	13	8	10	nw.	Beuford Shoemake
Jackson	Cape Girardeau	428	56	40.4	-6.8	72	31	8	3	57	2.74	-1.43	0.62	26-27	6.9	11	10	13	8	nw.	Danny Siebert
Koshkonong	Oregon	958	46	41.6	-7.8	71	31	11	3	47	1.61	-2.49	0.40	23-24	0.5	9	13	7	11	nw.	Mrs. Genevieve T. Smith
Licking 4 miles N	Texas	1,170	10	37.8	-9.3	65	23	3	3	10	2.42	-0.71	0.67	5	8.7§	9	6[b]	6[b]	17[b]	s.	Fern E. Austin

Continued on next page

Climatological Data for March 1947—Continued from preceding page.

Stations	Counties	Elevation, feet	Temperature, in degrees, Fahr.							Precipitation, in inches						Number of days				Prevailing direction of wind	Observers
			Length of record, years	Mean	Departure from the normal	Highest	Date	Lowest	Date	Length of record, years	Total	Departure from the normal	Greatest in 24 hours [4]	Date	Total snowfall, unmelted	With precip., .01 inch or more	Clear	Partly cloudy	Cloudy		
Southeastern Division—	*Concluded*																				
Marble Hill	Bollinger	532	52	38.6	− 9.0	66	31	5	3	54	2.09	−2.19	0.62	5	3.5	7	18	6	7	nw.	R. A. DeWitt
Poplar Bluff	Butler	339	42	42.4	− 6.2	73	31	14	3	43	1.91	−2.45	0.74	23–24	T.	10	14	8	9	sw.	Osmon M. Richardson
Rolla	Phelps	1,202	47	36.1	− 9.4	61	22†	7	3	63	2.94	−0.69	0.70	12–13	17.8	11	9	14	8	w.	Rolla School of Mines
St. Louis:																					
City Office		465	110	37.2	− 6.9	66	22	15	3	110	2.24	−1.14	0.79	26–27	12.8	13	6	10	15	nw.	**Section Center**
St. Louis Airport	St. Louis	556	10	36.4	− 6.6	66	23	10	3	16	2.58	−0.30	0.77	26–27	14.8	12	7	6	18	nw.	U. S. Weather Bureau
St. Louis University	St. Louis City	578	35	37.4	− 6.8	66	23	15	3	35	2.56	−0.78	0.76	26–27	15.6	13	12ᵃ	8ᵃ	10ᵃ	nw.	St. Louis University
Salem	Dent	1,206	43	38.0	− 8.4	65	22	6	3	46	2.42	−1.45	0.63	12–13	8.0	9	12	8	11	s.	E. E. Martin
Sikeston	Scott	318	40	40.2	− 8.4	72	31	15	3	50	2.35	−2.11	0.79	23–24	1.5	10	14	9	8	n.	Mrs. Lucy W. Humphreys
Union 1½ mi. SE	Franklin	520	9	37.0	−10.3	70	22	4	3	30	1.61	−1.69	0.33	12–13	*17.0*	12	5	8	18	nw	Cornelius Sieges
Vichy 2 mi. NW	Maries	1,125	11	35.2	......	68	22	4	3	12	2.39	......	0.86	12–13	10.7	12	5	15	11	nw.	Civil Aeronautics Adm.
Wappapello Dam	Butler	475	8	40 2	......	71	31	13	3	8	1.78	−2.97	0.64	23	2.5§	11	16	3	12	nw.	U. S. Engineer Office
Webster Groves	St. Louis	507	1	37.0	......	66	22†	12	3	2	2.39	......	0.75	26–27	11.0	10	15	3	13	w.	R. W. Lawrie
Weingarten	St. Genevieve	833	6	37.7	......	65	22	10	3	7	2.47	......	0.90	26–27	11.5§	9	6	17	8	n.	William J. Miller
West Plains	Howell	1,005	10	38.8	− 8.3	70	31	5	3	10	1.26	−2.65	0.37	5	0.2	9	3	14	14	nw.	U. S. Weather Bureau
Willow Springs 500 ft E	Howell	1,238	6	39.4	......	71	31	3	3	40	2.21	−2.03	0.58	5	*2.2*	10	15	6	10	n.	Allen Frazee
Cairo, Ill.	Alexander, Ill.	314	75	41.6	− 6.1	71	31	18	3	76	2.44	−1.31	0.89	23	4.0	12	8	10	13	ne.	U. S. Weather Bureau
Division means	**and extremes**	.....	..	**39.1**	**− 7.7**	**75**	**29†**	**− 4**	**3**	..	**2.16**	**−1.85**	**1.05**	**5**	**7.2**	**10**	**12**	**8**	**11**	**nw.**	
State means	**and extremes**	.....	..	**37.4**	**− 6.7**	**77**	**22**	**− 7**	**3**	..	**2.80**	**−0.43**	**2.47**	**12–13**	**8.8**	**11**	**10**	**9**	**12**	**nw.**	

The departures from normal temperature are computed from the averages of the entire period for stations having 10 or more years of record. Departures of precipitation for stations with 15 years or more of record are computed from a normal or "standard mean", adjusted to a uniform 35-year period; for stations of 10 to 14 years the means for the period of record are used. The normal may be found by adding the departures when minus (−) or subtracting when plus (+). Figures and letters following stations indicate distance in miles and direction of station from the city Post Office, unless otherwise indicated. T. Trace or 0.005 inch or less. ᵃ, ᵇ, ᶜ, etc., number of days missing; for example, ᵇ, indicates two days missing. Italics data interpolated. § Partly interpolated. † And other dates. ‡ Received too late to be included in means and summaries. [4] Best available used for stations not equipped with recorders. Post office address of: Altona is Adrian; Clearwater Dam is Piedmont; Crane Mountain is Arcadia; East End is Goodland; Eastwood Lookout is Van Buren; Hailey is Cassville; High Lookout is Birch Tree; Macedonia Lookout is Doniphan; Oates Tower is Centerville; Perry is Center; Pineview Lookout is Cape Fair; Sugar Camp Lookout is Seligman; Topaz is Cabool; Wilderness Lookout is Lampe. (C) Airport. ¶ Indicates plus.

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Only one minor flood occurred this month, that being in the Grand River, at Chillicothe and below, from the 13th to 15th. Elsewhere river stages were normal, or below, during the month, as a rule.

The cold weather and frequent rains and snows seriously curtailed all field work during March and at the close of the month very little planting, or preparation for planting, had been accomplished. Only a small percentage of the oat crop had been sown and very few gardens, potatoes, or truck fields had been planted. Wheat and grasses made some growth the latter half of the month, but warmer weather was needed for more rapid growth. The winter wheat crop came through the winter in very good condition and the snow cover during the coldest weather, the first week of March, was very beneficial in protecting the crop. Fruits buds were held back by the prevailing low temperatures and only during the latter part of the month did buds of early developing trees and shrubs begin to swell. It was a bad month for livestock and dry feeding was necessary during most of the first two or three weeks. Much warmer and drier weather was badly needed as the month closed, to dry out fields so they could be worked and planted to early crops.—M. R. W.

TEMPERATURE

The monthly mean for the State, 103 stations reporting, was 37.4°, or 6.7° colder than the 60-year March average. The highest monthly mean was 43.8° at Caruthersville, and the lowest was 31.4° at Unionville. The highest reported was 77° at Eldon, on the 22d, and the lowest was 7° below zero at Bethany, on the 3d.

PRECIPITATION

The average for the State, 210 stations reporting, was 2.80 inches, or 0.43 inch less than the 60-year March average. The greatest monthly amount was 5.58 inches at Polo, and the least was 1.12 inches at Doniphan. The greatest amount reported in 24 hours was 2.47 inches at Polo on the 12-13th. The average number of days with 0.01 inch, or more, was 11.

Snowfall for the State averaged 8.8 inches, or 5.8 inches more than the 57-year March average. The greatest monthly snowfall reported was 26.0 inches at Mexico.

MISCELLANEOUS PHENOMENA

Aurora.—2d

Flood.—In Grand River, 13th to 15th.

Fogs.—Heavy, 1st, 2d, 4th, 11th, 20th, 24th, 27th.

Frosts.—Light, 22d, 28th, 30th; heavy, 14th, 16th, 18th, 22d; killing, 3d, 4th, 15th, 16th, 17th, 18th, 20th, 21st, 22d, 25th, 26th, 27th, 28th, 30th.

Glaze.—1st, 5th, 6th, 17th, 18th, 24th, 27th.

Hail.—Light, 5th at Springfield; 24th at Auxvasse, Columbia, Elsberry, Fulton, Kirksville, Martinsburg, Mexico, New Florence, Polo, Saverton, Shelbina, Steffenville, Warrenton, Bolivar, Warsaw, Advance, Richwoods, St. Louis, St. Louis Airport, Steelville; 27th at Seymour and Springfield; 31st at Appleton City, Bolivar, Lockwood, Roby, Salem. Moderate, 24th at Cape Girardeau and St. Louis University. Heavy, 31st at Carrollton. (See special storm table).

Sleet.—1st, 5th, 6th, 7th, 19th, 20th, 24th, 26th, 27th, 31st.

Windstorm.—No damaging windstorms reported.

Daily Precipitation for March 1947

Stations	Drainage-basins	Day of month																															Total
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Northern Division																																	
Albany	Grand	.20				.10							.97	.90				.18	.18	.01				.21	.31			.24				.58	3.88
Amity	do	.10	T.			.40	.45						1.15	1.27	T.	T.	T.	*.25*	*.15*	.03	.01			.08	.22		T.	.15				.59	§4.85
Auxvasse	Missouri	.12				.40	.28						.08	.95	.01			.23	T.		.15	T.		T.	.61			.43				.88	4.14
Bethany	Grand	.03				*.20*	*T.*						.90	.82	T.		T.	.04	.27	*.10*	T.	.06		.10	.04			*.25*				.11	§2.92
Bowling Green[2]	Mississippi	.23					.14							.49	.44					*	.22					.30		.35	T.				2.17
Brookfield[2]	Grand	.28	.05				.44						.40	1.45	.13			.09		.07	.10		.10		.40	.13		.32	.05				4.01
Browning 3 mi. NE	do	.11	T			.01	.12		T.				.66	.97	.04	T.	.03	.01	.26	.02	.08	.07		.22	.44	T.		.28				.28	3.60
Brunswick[2]	do	.15	.03	T.			.48						.33	1.43	.18	T.		.10		T.	.17	.02		.06	T.	.40		.20	.07			.15	3.77
Canton, Lock No. 20[2]	Mississippi	.23	.10	T.										.40	.45	*T.*				.14	.18	.02		.06	.07	.55		.01				T.	2.21
Carrollton	Missouri	.07	T.			.29	.39						1.30	1.47	T.	*T.*		.25		T.	.11	T.		.08	.18			.29				.51	4.94
Centralia[2]	Mississippi	.26					.43						.21	.59	.56	.02		.20			.19				T.	.45		.49	.04			T.	3.44
Chillicothe[2] (B)	Grand	.20	.02				.35						.28	1.70	.12	T.		.10		.09	.06	T.		.05	.09	.03		.23	.03			T.	3.35
Chillicothe[3] 2 mi ESE (C)	do	.18	.01	T.		.49	.04					.13	1.02	.88	T.	T.	.28	T.	.06	.12	T.			.23	.23	T.	T.	.25				.27	4.19
Columbia[1, 5]	Missouri	.12	T.	T.		.49	.09					T.	.44	.82	T.	T.	.15	.05	T.	.15	T.			T.	.49	T.		.32				.81	3.93
Columbia[5] 9 mi. WNW	do	.11	T.			.14	.26						.56	.93	T.	T.		.15	T.		.19				.39		T.	.24				.70	3.67
Conception	do	.06				.14					*T.*		.88	1.02	T.		*T.*	.09	.18	T.	T.	.05			.35			.28				.52	3.57
Edgerton	do																																....
Edina[2]	Mississippi	.30	.05				.08						T.	.45	.30	.04				T.	.26	T.		.13	.03	.29		.10					2.03
Elsberry S. C. S.[2]	do	.33	.04				.23							.87	.42			T.			.26	T.				.50		.55	T.				3.20
Fayette	Missouri	.08				.12	.15						.75	1.21	T.	T.		*.28*	T.	T.	.19			.04	.38	T.		.18				.55	§3.93
Fulton[2]	do	.22					.20						.17	.49	.49	.02		.11			.15				*T.*	.56		.26	*.05*				§2.72
Gallatin[2]	Grand	.40	.09				.30						.27	2.07	T.			.15		.14	.06	T.		.05	.18	T.		.28				.29	4.28
Grant City	do	.02	*T.*										1.05	.81	T.		*.05*	*.10*	.10	T.				.14	.16			.22				.55	§3.20
Hannibal[1] (A)	Mississippi	.15				T.	.05						.04	1.10	T				.05	.03	.12			.08	.35		T.	.33				.39	2.69
Hannibal[2] (B)	do	.26	.05	T.			.03							.46	.63	T.				T.	T	T.		T.		.21		.20	.08				1.92
Hermann[2]	Missouri	.30	.05			.50								.68	.42			.20			.12					.75		.25	.15				3.42
Kahoka[2]	Mississippi	*.25*	.12											.36	.29					.12	08			*	.13	.20						T.	§1.55
Kansas City Airport[1, 5]	Missouri	.08	T.			.53	.08					.54	2.14	.73	.05	T.	.14	T	T.	.09	T.			.05	.21	T.		.08			T.	.31	5.03
Kansas City University	do	.11	T.			.17	.28					.06	1.95	1.45	.07	T.	T.	.19		.06	.04			T.	.09			.08				.35	4.90
Kidder[2]	Grand	.22	.03				.45						.27	2.13	.10			.13			.10				.13	.01		.19				.21	3.97
King City	Missouri	.03	T.			.25	.10						1.35	1.08			.14	.04	.28	.15					.28			.40	.10			.75	4.95
Kirksville	Mississippi	.16	.03				.05						.37	.90	.01				.10	.02	.09			.06	.23	.01		*	.14			.17	2.34
Kirksville Airport[5]	do	.04	T.			.05	.04					T.	.36	.84	.01	T.	T.		.13	.04	.04	T.		.15	.25		T.	.20				.19	2.34
LaBelle[2]	do	.45	.05				.10							.65	.28					.20	.24	T.		T.		.40		.10					2.47
Lawson	Missouri																																....
Linneus	Grand	*.15*	T.			T.	*.40*		.01				.80	1.10	*T.*			*.20*	.05		*.12*			.15	.45			*.25*				.36	§4.04
Louisiana (A)	Mississippi	*.20*	*T.*				.20							*1.12*	.08				.02		.30	.05			.63			.40				.60	§3.60
Louisiana[2] (B)	do	.34	.11				.16							.52	.62	.05				.01	.30	.02		.01		.54		.37	.11				3.16
Lucerne[2]	Grand	.30	T.										T.	1.60	T.		T.	*.10*		T.	*.05*				T.	T.		.07				.20	§2.32
Macon[2]	Chariton	.19	.09				.12						.25	.68	.22	.02		.02		.04	.21	.02		.07	.06	.44		.28	.01				2.72
Madison[2]	Mississippi	*	.18				.13						.12	.15	.58			.08	T.		.30					.55		.45					2.54
Martinsburg[2]	Missouri	.27	.04				.33	T.					.01	.50	.45	.10	*T.*	.15		T.	.26			.02	T.	.34	T.	.52	.13				3.12
Maryville	do	.08	.01			T.	T.						.99	.90	T.		T.	.06	.17	T.	.04	.09		.08	.42			.38				.45	3.67
Memphis[2]	Mississippi	*.25*	.15											.42	.20	T.				.06	.04			T.	T.	.32							§1.44
Mexico[2]	do	.53	.07				.60						.04	.02	.58	T.		.30		T.	.21				T.	.29		.77	.20				3.61
Milan[2]	Grand	.27	.03				.05						.12	1.26	.15	T.	T.	.25		.25	.06				T.	.35		.25					3.04
Moberly[2] 3½ mi. NE	Mississippi	*.28*	*.07*				*.40*						.50	.60	.31	*T.*		.08	T.		*.20*			.05		.22		*	.28				§2.99
Monroe City	do	.18					.08						T.	1.14	*T.*					.04	.24	.03		.09	.61			.46				.32	3.19
New Florence[3, 5] 1 mi SE	Missouri	.04	T.	T.		.16	.01						.06	1.12	T.	T.	.06	.03	T.	.10	.01	T.		T.	.40		T.	.21				.46	2.66
Oregon	do	.02	T.			*.50*							1.22	.98	.01	T.	*T.*	*.20*	*.14*	T.					.12			.08				.26	§3.53
Palmyra[2]‡	Mississippi	*.30*	*.04*				*.05*							.46	*.60*	*T.*				T.	.17	.04				*.40*		*.30*	*.03*				§2.39
Paris[2]	do	.12	.02				.10						.06	.61	.49	T.		.03		T.	.29			.03	T.	.55		*	*.60*				§2.90
Perry 1 mile E	do	.30					.10							.95	.05		T.		.02		.30			*	.40			.35				.60	3.07
Philadelphia	do																																....
Polo[2]	Missouri	.25	.03				.65						.75	2.47	.12	T.		.14		.02	.09	.03		.13	.26	.12	*T.*	.27	.03			.22	5.58
St. Charles[2] (A)	do																																....
St. Charles[2] (B)	do	.31	.05	T.			.35							.41	.21	T.		.11			.24	T.		.01		.36	T.	.69	.20				2.94
St. Joseph[1, 5]	do	.09	T			.83	T.				T.	.09	1.70	.79	T.	T.	.06	.01	.04	.04	.09			.03	.26			.15				.23	4.41
Salisbury	Chariton	.09	T.			.15	.26						.85	1.08	*T.*			.17	T.	T.	.18			.03	.41	*T.*		.44				.41	4.07
Saverton, Lock No. 22[2]	Mississippi	.23	.05	T.			.04							.57	.46	.09	T.	T.		.03	.26	.06		.06	T.	.53		.34	.02			T.	2.74
Shelbina	do	.22	*T.*			T.	.08						.05	1.21	.03	.02			.03		.22			.03	.66			.33				.45	3.33
Shelbyville[2]	do	.34				*T.*	.25					T.		.58	.38	T.				T.	.23			T.		.64		.22					2.64
Steffenville	do	.09					.03						.03	.89	.01				.06	.01	.18	.04		.08	.41			.22				.26	2.31
Tarkio[3]	Missouri	T.	T.			T.	T.				T.		.85	.56	T.	T.	T.		.04	T.	.02			.05	.16		.01	.11				.27	2.07
Trenton[2]	Grand	.19	.06	T.			.10		T.				.19	1.70	.02	T.		.04		.23	.08	.06		.10	.06	.15		.16	.04			.31	3.49
Troy[2]	Mississippi	.23	T.				.43							.66	.49	T.		.07		T.	.24					.55		.60	.12				3.39
Unionville[2]	Chariton	.15	*T.*										.09	1.01	.11	*T.*		T.		.10	.08			.05		.04		.03					1.66
Vandalia	Mississippi	.20	T.			T.	.18							.91	T				T.		.10				.20			.60				.60	2.79
Warrenton	do	.23	T.			.19	.31							1.18	T.			.09			.14	T.			.56	T.		.52				.51	3.73
Keokuk, Iowa[1]	do	.12	T.		T.								T.	.67	T.	T.			.13	.03	.07	T		.33	.42							.10	1.87
Southwestern Division																																	
Altona[2]	Osage	.10					.16						.80	1.30	T.			.22			.10	T.			.10			.15				.22	3.15
Anderson[2] 1½ mi. SW	Neosho	.20				.01	.10						.18	1.58	.02			.08			.06				.03	.24						.04	2.54
Appleton City 2 mi. W	Osage	*	.22			.18	.02					.02	1.78	1.00	.01			.10			.08	.01			.15			.13				.30	4.00
Ava Ranger Station[2]	White	*.17*					.07							.70	.40			.10			.10							.19					§1.73
Bolivar	Osage	.08				.72	.03					T.	.50	1.06	T.			.07			.11				.22			.39				.21	3.39
Boonville[2] (A)	Missouri	.40	*.03*				.60						.60	.85	.24			.35			.41			.03	.01	.51	T.	.55	.07			.11	§4.76
Boonville[2] (B)	do	.24	.06				.36						.53	1.02	.34	T.	T.	.16			.19	T.		T.		.29		.21	.12				3.52
Bradleyville[2]	White	.08					.38						T.	.64	.14			.10			.16				.10	.17		.19	T				1.96
Buffalo[2]	Osage	.21					.78	T.					.20	.88	.08			.11			.11				.01	.29		.50					3.17
Butler	do	.09				.12	.04					.02	1.43	.91	.03			.12			.07	T.			.19			.35				.34	3.71
Camdenton	do	*.30*				.28							.47	1.34				*.05*							.38			*.60*				.32	§3.74
Caplinger Mills[2]	do	.15	T.				.12						.30	1.56	05			.04			.12	.03			T.	.40		.60				.33	3.70
Carthage	Neosho	.05				*	.33						.78	1.46				.16			.11				.32			.12					3.33
Cassville[2]	White	.15	T.			*T.*	*	.09					.06	.80	.22	T.		.02			.08				.02	.15		.03					1.62
Chadwick[2]	do	.20	.33			*T.*	T						T.	.88	.30	T.		T.	T.		.20					.05		.15	T.				2.11
Clinton[3]	Osage	.04				.30	.02					.44	1.59	.48	.05		.13	T.		.08	T.			T.	.35			.15				.37	4.00
Concordia	Missouri	.30	.30				.49					*	*	2.83	T.		T.	.17		*	.03	.23			.16			.07				.63	5.21
Crocker	Osage	.24				.38	.14						.12	.95	T.	T.		.25		.04					.41			.63				.30	3.46
Eldon	Missouri	.20				.25	.27						.58	.96	.02	T.		.18			.05				.87			.40				.40	4.18
Eldorado Springs	Osage	.15				.10	T.					T.	1.25	1.15				.07			T.	.12			.37			.67				.48	4.36
Elijah[2]	White	.23	T.				.35							.39	.30									.25		*.03*		*	*.20*				§1.75
Forsyth[2]	do	.20					.32						*	.69	.10						.12					.05		.10					1.58
Galena[2]	do	.13	T.			.02	.34						.06	.58	.23	T.		.04	T.		.11				.01	.06		.08	T.				1.66
Granby[2]	do	.10				.05	.10						.27	.99	.26			.08			.15				T.	.24		.16					2.40
Hailey	do	.13				.12	T.							.95	.57						.04							T.					1.81
Harrisonville[2]	Osage	.33					.27						1.02	1.45	*	.09		.21			.09				.13	.05		.13	T.			.51	4.28
Jefferson City[2] (A)	Missouri	.23	.01				.50						.43	.11	.04	*T.*		.06			.06	.01		T.	T.	.06		.15	.01				1.67
Jefferson City[2] (B)	do	.27	.02				.43						.59	.49	.26	T.		.09			.06	.02		T.	T.	.37	T.	.10	.09				2.79

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Stations	Drainage-basins	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Total
Southwestern Division—	*Concluded*																																
Joplin Airport[1]	Neosho	T.				.22	T.					.31	1.61	.84	T.		.12	T.		.10	T.				.31	T.		.08				.01	3.60
Lakeside[2], [5]	Osage	.31	T.				.32						.40	.93	.07	.01		.22		T.	.07			.01	T.	.72		.46	.06			T.	3.58
Lamar[2]	Neosho	.16					.34						.13	2.00	.02			.07			.12					.27		.45					3.56
Lebanon	Osage	.07	.04			.65							.15	.85				.20			.08				.32			.46				.31	3.13
Lexington[2]	Missouri	*.60*					*.60*						.60	1.80	.25			T.			.10							*.20*				.40	§4.55
Lockwood	Osage	.06				.75						T.	.62	1.83	T.			.03			.10				.24			.49				.26	4.38
Mansfield[2]	White	.21	T.	T.			T.							1.02	.28						T.					T.		T.					1.51
Marshall	Missouri	.13	.04			.20	.15						1.12	.10	T.	T.		.09		T.	.13				.09			.11				.57	2.73
Marshfield[2]	White	.22	.02	T.			.33	T.					.19	.37	.21	T.		.13	.20		.16	.02			T.	.19		.34	T.				2.38
Monett[2]	Neosho	.14	T.			T.	.22	.02					.15	.50	.30	T.		.07			.14				.05	.11		.11	T.				1.81
Mountain Grove[2]	Gasconade	.17					.33							.55	.20			.03			.11				.02	.03		.34	.01				1.79
Mount Vernon[2]	Neosho	.34					.32	T.					.13	.28	.21	.03		.08			.21				.12	.23		.17				T.	2.12
Neosho	do	.20	.02			.12	.02						.49	1.62	T.			.03			.12				.25			.03				T.	2.90
Nevada	Osage	.03		T.		.13	.03					T.	1.18	1.44	T.			T.			.05				.34			.62				.20	4.02
Osceola[2]	do	.15	.05				.25						.94	1.22	.02	T.		.11			.06	.02			T.	.46		.35	.03			.05	3.71
Ozark[2]	White	.06	T.				.25							.60	.70						.19					.24		.13	T.				2.17
Ozark Beach[2]	do	.20						.28					.09	.70	.20						.15				.11			.07					1.80
Pierce City[2]	Neosho	.16		.02			.22						.22	1.39		.16		.08			.17					.28		.09					2.79
Pineview Lookout[2]	White	*.20*				.44							.75		.77						.11							.13					§2.40
Pleasant Hill[2]	Osage	.34	.01				.36						1.05	2.03	.17	.11		.17	.02		.14			.02	.03	.20		.07	.04			.44	5.20
Roby	Gasconade	.08	T.			.53	.03						.32	.75	.03			.21			T.			.02	.19			.56				.17	2.89
St. Thomas[2]. 2¼ mi SW	Osage	.35	*T.*				.47						.55	.89	*.05*			.10			*.05*					.85		*.40*					§3.71
Sedalia	Missouri	.10				.31	.14					T.	.79	1.08	.01			.15			.10				.25			.15				.55	3.63
Seligman[2]	Neosho	.25	.10			.05	.25	*T.*					.25	1.05	.02										.20	.04							2.21
Seymour[2] 3½ mi. NE	White	.17	T.				.26							.43	.19						.24				T.	.09		.52	.04				1.94
Shell Knob[2] 3 mi. SE	do	.29	T.				.45						.15	.58	.07	T.		.02			.08				T.	.05		.03					1.72
Siloam Sprgs Lookout[2]	do	*.06*	*T.*				.37							.43							.30												§1.16
Springfield[1], [5]. 4 mi. NW	do	.02	T.			.34	T					.08	.81	.39	T.	T.	.11	.04		.11	T.				.14			.56				.05	2.65
Stover[2]‡	Missouri	.16	T.				.27						.72	1.33	.07	T.		1.13			*.07*					.33		.06	T.			.25	§4.39
Sugar Camp Lookout[2]‡	White	*.25*	*.10*				.75						.33	.98											.14								§2.55
Sweet Springs	Missouri	.11				.15	.19					T.	1.15	1.08	.02			.18		T.	.11	.03		T.	.22			.17				.68	4.09
Tecumseh[2]. ¼ mi. W	White																																....
Topaz[2]	do	.17	T.	T.			.37							.36	.14						.23				*T.*			.34					1.61
Vauzant[2] 3¾ mi. SE	do	.18					.30							.35	.19						.38				.05	.07		.24	.05				1.81
Waco[2]	Spring		.05				.48	.01					.30	2.05	.01	T.		.08	T.		.10	.01			T.	.31	T.	.17				T.	3.57
Warrensburg	Missouri	.11				.17	.31					T.	1.36	1.40	T.	T.		.21			.08				.21			.12				.63	4.60
Warsaw[2] (A)	Osage	.26	.02				.32						T.	.92	.88	.02		.18				.08				.48		.35	T.				3.51
Warsaw[2] (B)	do	.28	T.				.32						.28	1.09	.09			.10			.11			T.		.45		.31				.19	3.22
Wasola[2]	White	.18	T.				.24						T.	.61	.09						.09				*T.*			.21					1.42
Waverly[2]	Missouri	.38	T.	T.			.60	T.					.74	1.60	.48	T.	T.	.18			.12			T.	T.	.23	T.	.15				.20	4.68
Waynesville	Gasconade																																....
Wilderness Lookout[2]	White	.19					.25						.15	.54	.02			T.			.11				T.	.05		.01					1.32
Southeastern Division																																	
Advance[3] ¼ mile W	St. Francis	.06	T.			.50	T.							.47	T.		T.	T.			.01	.03		.63	.12	.02	T.	.39					2.23
Alton 10 miles SE	Black	.12				.17	.02							.18	.02						.06			.40	.08			.30					1.35
Annapolis[2] 7 mi. W	do	.20	T.				.58							.26	.23	T.		.12	T.		.15	T.		.02	.17	.04		.43	.09				2.29
Arcadia[2]	St. Francis	.43					.90							.40				T.			.32							.56	T.				2.61
Belleview[2]	Meramec	.28	.07				.76	.12						.18	.13			.09	T.		.23				T.	.09	.01	.34	.04				2.34
Bernie[2]	St. Francis						.50							.11	.21						.22				.71	.28		.11	.09				2.23
Birch Tree[2] ½ mile E	Black	.10					.52							.28	.08			.06			.13				.15	.05		.14	.10				1.61
Black 9 miles NW	do	.20	*T.*			.62	.09							.45				.09							.08			.48				.03	2.04
Bloomfield[2]	St. Francis	.13	.04				.36	.03						.06	.28			T.	T.		.10				.62	.28		.08	.06				2.04
Bunker[2] 4 miles NW	Black	*.05*	*.05*				1.05							.40	.05						.20							.40	*T.*				§2.20
Campbell	St. Francis	.10				.10	.03	T.	T.					.19		T.					.02			.75	.25			.17					1.61
Cape Girardeau (A)	Mississippi	.14				.13	.44							.30	.02			.08			.10			.36	.34		T.	.50					2.41
Cape Girardeau[2] (B)	do	.10	.02				.41	T.						.06	.42	T.		.03	.01		.11				.41	.05		.30	.20				2.12
Caruthersville[2]	do	.25	.02		T.		.65	T.	.23					T.	.03	T.					T.	T.			.70	.07		.06	.15				2.16
Centerville(1)[2]	Black	.15	.15				.84							.34	.15	*T.*		.12			.17			.02	.06	.13		.54	*T.*				2.67
Centerville(2)[2]	do	.28	.02				.77	T.						.29	.15	T.		.12			.16	T.		.01	.07	.08		.39	.07				2.41
Clearwater Dam[2]	do	.43	.05			T.	.42							.20	.11	T.		.02	T.		.12			.05	.25	.05	T.	.27	.03				2.00
Cook Station[2]	Meramec	.33					.67							.23				.23			.14					*		*	.77				2.37
Crane Mountain[2]	St. Francis	.19					.66							.40	.07			.12			.14			.01	.20	.04		.46					2.29
Crystal City	Mississippi	.31	T.			.20	.37							.33	.05	.01		.11			.14			.02	.06			.78				.15	2.53
Cuba	Meramec	.16				.33	.12						T.	.61	.01			.11			.09		T.	.06	.27		T.	.76				.20	2.72
Deering[2]	St. Francis	.25					.63		.09						.16	T.									1.03	T.							2.16
De Soto	Mississippi	.30	T.			.51	.21							.24				.02			.13			.01	*	.09	.02	*	.99			.13	2.65
Dexter[2]	St. Francis	.16	.04				.37							.03	.29	.04		.03			.09			.03	.89	.13		.06	.31				2.47
Doniphan(1)	Black	.11				*	.12							.19				*T.*						.29	.13			.28					1.12
Doniphan(2)[2]	do	.12					.21							.13	.06						.08				.72	.05		.25	.09				1.71
East End[2]	Meramec	.32	*T.*				.80							.26														.50	*.02*				§1.90
Eastwood Lookout[2]	Black																																....
Ellington[2]	do	.30	T.				.41							.30	.16			T.			T.	.10			.10	.06		.30	.10				1.83
Elsinore	do	.15				.73	.05							.24										.50	.12			.25					2.04
Farmington[2]	St. Francis	.22	.01	T.			.59	T.						.17	.14	T.		.10			.17	T.		T.	.03	.04	*.03*	.38	.22				§2.10
Fisk[2]	do		T.				.62							.08	.16						.08				.80	.14		.32	.10				2.30
Fredericktown[2]	do	.27	T.				.66	T.						.22	.05			.09			.20		T.	.18		.03		.54	.06				2.30
Gerald	Meramec	.26	.01			.30	.07							*	.81			.13			.12				.35			.46				.24	2.75
Greenville(1)	St. Francis	*.15*				.51	.04							.26				*T.*			.02			.37	.13			.46					§1.94
Greenville[2] (2)	do	.15	T.				.69							.17	.05			T.	T.		.07			.02	.38	.09		.29	.08				1.99
High Lookout	Black	*T.*	*T.*			.60	*T.*							.46	T			T.			.15			.22	*T.*			.25					1.68
Jackson	Mississippi	.21	T.			.25	.37							.40	.05	T.		.09			.10	T.		.27	.36		.02	.62					2.74
Jefferson Barracks	do																																....
Jerome[2]‡	Gasconade	.38					.48	T.					.26	.58	T.			.46			.12					.32		.64					3.24
Koshkonong[2]	Black	.22	T.				.26							.15	.31	T.					.10				.40	.07		*	.10				1.61
Leeper[2]	do	.16	.20	T.			.73							.17	.07	.01		.01	T.		.09			.04	.27	.05		.30	.07				2.17
Licking[2]	Gasconade	.22	.04				.67							.47	.25			.26								.15	*	.36					2.42
Macedonia Lookout[2]	Black	.16	T.				.26							*	.20			*T.*	T.		.09				.42	.11		.08	.18				1.50
Marble Hill	Mississippi	T.	T.			.37	.25							.31	.07									.26	.37			.46					2.09
Morehouse	do	.16				.05	.31							.23	.01			*T.*			.01			.31	.56			.36					2.00
Moselle[2]	Meramec																																....
New Madrid[2]	Mississippi	.27	.03				.35	T.						T.	.12	T.		T	T.		T.			T.	.86	.16		T.	.16				1.95
Oates Tower[2]	Black	.23	T.			T.	.21							.11	.09			.16	*T.*		.17	*T.*		T.	T.	T.		.47	T.				1.44
Owensville[2]	Gasconade	.51	.09	T.			.25	.08						.59	.26			.11			.15					.53		.35	.05				2.97
Pacific[2]	Meramec	.60	*T.*	*T.*			.35	*T.*						*	.22			.15			*.13*	*T.*		T.		.17		*.36*	*.09*				§2.07
Parma[2]	St. Francis	.20	T				.62							T.	.19	T.									.92	.10		T.	.20				2.23
Perryville	Mississippi	*	*.35*				.25							.24				*.20*			T.	T.	T.					*.50*				.30	§1.84
Poplar Bluff[2]	Black	.11	.02				.43							.10	.12						.08				.74	.09		.21	.01				1.91
Puxico[2]	St. Francis	.20	T				.39							.13	.29			.01	T		.08				.71	.09	.01	.33	.18				2.42
Qulin[2]	do	.15	.01				.27							.03	.12	T.					.05			T.	.82	.16		.12	.09				1.82
Reynolds[2]	Black	.20					.68							.43	.07			.11			.24					T.		.40	.10				2.23
Richwoods[2]	Meramec	.37	*T.*				.60							*	.45			.10			.12	.01		T.		.15		*	1.06				§2.86
Rolla[2]	do	.35	.03				.50	T.					T.	.60	.10	T.	T.	.20			.12			.04	T.	.45	T.	.50	.05				2.94
Round Spring[2]	Black	.28					.68							.39	.05			.21			.18					.09		.22					2.10

Continued on next page

Daily Precipitation for March 1947—Continued from preceding page

Stations	Drainage-basins	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Total
Southeastern Division –	*Concluded*																																
St. Louis:																																	
City Office[1], [5]	Mississippi	.12	T.	....	....	.17	.07	....	....	....	....	....	T.	.58	.01	T.	T.	.07	....	.03	.13	.02	....	T.	.09	T.	.04	.75	T.	....	....	.16	2.24
Airport[3], [5]	Missouri	.13	T.	T.	....	.19	.08	T.	....	....	....	....	T.	.53	T.	T.	.02	.04	....	.26	.10	T.	....	T.	.23	T.	.19	.58	....	....	....	.23	2.58
St. Louis Univ.[1], [5]	Mississippi	.26	.02	....	....	.30	.06	....	....	....	....	....	....	.57	T.	T.	....	.13	....	.03	.13	.02	....	T.	.10	T.	.12	.64	....	....	....	.18	2.56
Washington Univ.[2]	....do	.35	.05	....	....	....	.20	....	....	....	....	....	....	.45	.19	....	....	.07	....	....	.21	.01	....	....	....	.30	....	.70	.85	....	....	....	3.38
Salem	Meramec	.22	....	....	....	.43	.11	....	....	....	....	....	....	.63	....	....	....	.15	....	....	.13	....	....	....	.10	....	....	.35	....	....	....	.30	2.42
Sikeston[3]	Mississippi	.18	T.	....	....	....	.50	T.	....	....	....	....	....	.11	.24	*T.*	....	.04	....	....	.06	....	....	T.	.79	.12	....	.20	.11	....	....	....	2.35
Steelville[2] ...2½ mi. NE	Meramec	.20	.10	....	....	....	.60	....	....	....	....	....	....	.45	T.	T.	....	.17	....	....	....	....	....	T.	....	.21	....	.56	....	....	....	....	2.29
Sullivan[2]	....do	.45	.03	T	....	....	.41	T.	....	....	....	....	....	.38	.23	T.	....	.09	....	....	.10	....	....	T.	T.	.23	T.	.77	.03	....	....	....	2.72
Summersville[2]	Black	.34	.10	T.	....	....	.47	....	....	....	....	....	....	.35	.07	....	....	.10	....	....	.14	....	....	....	.04	....	....	.29	T.	T.	....	....	1.90
Union[2] ....1½ mi. SE	Meramec	.21	.02	....	....	....	.27	....	....	....	....	....	....	.33	.07	....	....	.09	....	....	.10	.02	....	.03	....	.18	....	.21	.08	....	....	....	1.61
Valley Park[2]	....do	.54	T.	....	....	....	.34	....	....	....	....	....	....	.10	.15	....	....	.08	....	....	.20	T.	....	....	....	.27	....	.45	.17	....	....	....	2.30
Van Buren[2]	Black	....	....	....	....	....	.53	....	....	....	....	....	....	.17	....	....	....	....	....	....	.28	....	....	....	.30	....	....	.31	T.	....	....	....	1.59
Vichy[3] ..... 2 miles NW	Meramec	.13	T.	T.	....	.21	.02	....	....	....	....	....	.36	.58	.01	T.	.13	.01	....	.08	T.	T.	....	T.	.27	T.	T.	.45	....	....	....	.14	2.39
Wappapello Dam[3]	St. Francis	.12	.03	....	....	....	.31	....	....	....	....	....	....	.17	.08	....	....	T.	T.	....	.07	....	....	.02	.62	.06	....	.28	.02	....	....	....	1.78
Webster Groves	Mississippi	.24	....	....	....	.13	T.	....	....	....	....	....	....	.56	.05	....	....	.08	....	....	.19	.01	....	....	.22	....	....	.75	....	....	....	.16	2.39
Weingarten	....do	.32	....	....	....	.15	.45	....	....	....	....	....	....	.25	....	....	....	.10	....	....	.10	....	....	....	.10	....	....	.90	....	....	....	.10	2.47
West Plains[3]	Black	.03	T.	....	....	.37	T.	....	....	....	....	....	.07	.30	T.	....	T.	T.	....	.05	.12	....	....	.10	.04	T.	T.	.18	....	....	....	....	1.26
Williamsville[2]	....do	....	....	....	....	....	.46	....	....	....	....	....	....	.26	T.	....	....	....	....	....	....	....	....	....	.68	.16	....	.02	....	....	....	....	1.58
Willow Springs[2] 500 ft E	White	.32	.08	....	....	....	.58	....	....	....	....	....	....	.30	.24	....	....	....	....	....	.29	....	....	....	.02	.08	....	.25	.05	....	....	....	2.21
Winona Ranger Sta.[2]	Black	.25	....	....	....	....	.49	....	....	....	....	....	....	....	.35	.10	....	.08	T.	....	.15	....	....	....	*.20*	....	....	.20	.15	....	....	....	§1.97
Zalma[2]	Mississippi	.10	T.	....	....	....	.37	....	....	....	....	....	....	.22	.23	....	....	.03	T.	....	.02	....	....	T.	.53	.10	....	.16	.11	....	....	....	1.87
Cairo, Ill.[1], [5]	....do	.03	T.	....	....	.45	.09	....	....	....	....	....	....	.36	.02	T.	T.	.06	....	....	.04	....	....	.89	.15	.04	.01	.30	....	....	....	....	2.44
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....

Except as otherwise indicated, amounts are for 24 hours ending late in afternoon. [1] Midnight to midnight. [2] Measured in the morning; for the preceding 24 hours. [3] Data for 24 hours ending 12:30 A. M. (C. S. T.) of following day. [5] Recording gage. T. Trace or 0.005 inch or less. * Included in next measurement. // Windshield on gage. Italics data interpolated. § Partly interpolated. (A) Record from cooperative station gage. (B) Record from river station gage. (C) Airport.
‡ Received too late to be included in means and extremes.

Daily Evaporation (inches), Mean Temperature (F°), and Wind Movement (miles) for March 1947

(See precipitation data in daily precipitation table)

Station	Data	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Monthly
Columbia (Univ. of Mo. Hort. Exp. Sta. 9 mi. WNW.)	Evaporation	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
	Mean temperature	22	18	20	31	32	32	33	30	31	33	42	44	42	31	26	29	26	32	38	35	37	48	60	48	38	31	32	42	48	40	46	35.4
	Wind movement	146	165	32	24	156	157	71	87	32	35	103	68	81	137	157	106	84	58	84	88	160	130	171	173	198	131	107	131	164	84	105	3,425
Lakeside (Osage Dam)	Evaporation	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.069	*	.049	.062	.055	.085	.060	.086	.233	.104	.082	.196	*	.060	.121	.184	.224	....
	Mean temperature	24	23	20	32	28	28	33	35	32	36	41	48	46	38	30	34	34	36	39	38	38	48	53	53	40	34	34	42	46	42	43	37.2
	Wind movement	68	124	85	24	62	81	56	69	47	46	37	84	84	98	125	134	67	32	29	57	65	45	101	74	106	137	49	55	79	55	79	2,254
St. Louis (Washington University)	Evaporation	....	....	....	....	....	....	....	....	....	....	....	....	....	.026	*	*	*	*	.279	.076	.051	.036	.191	.082	.037	....	....	....	....	.164	.126	....
	Mean temperature	26	24	24	32	33	35	31	32	32	34	40	50	46	35	28	33	34	36	44	40	38	46	50	49	38	32	32	40	45	40	46	37.0
	Wind movement	54	63	66	30	78	132	82	120	73	40	17	38	53	65	61	58	58	46	51	69	56	58	90	73	101	133	35	47	54	73	57	2,031

Observations taken at 8:00 a. m. except at 5:00 p. m. at Columbia. For Lakeside and St. Louis (Washington University) descriptions see April 1932 and August 1938 reports, respectively. * Included in next measurement.

Missouri Storms, March 1947

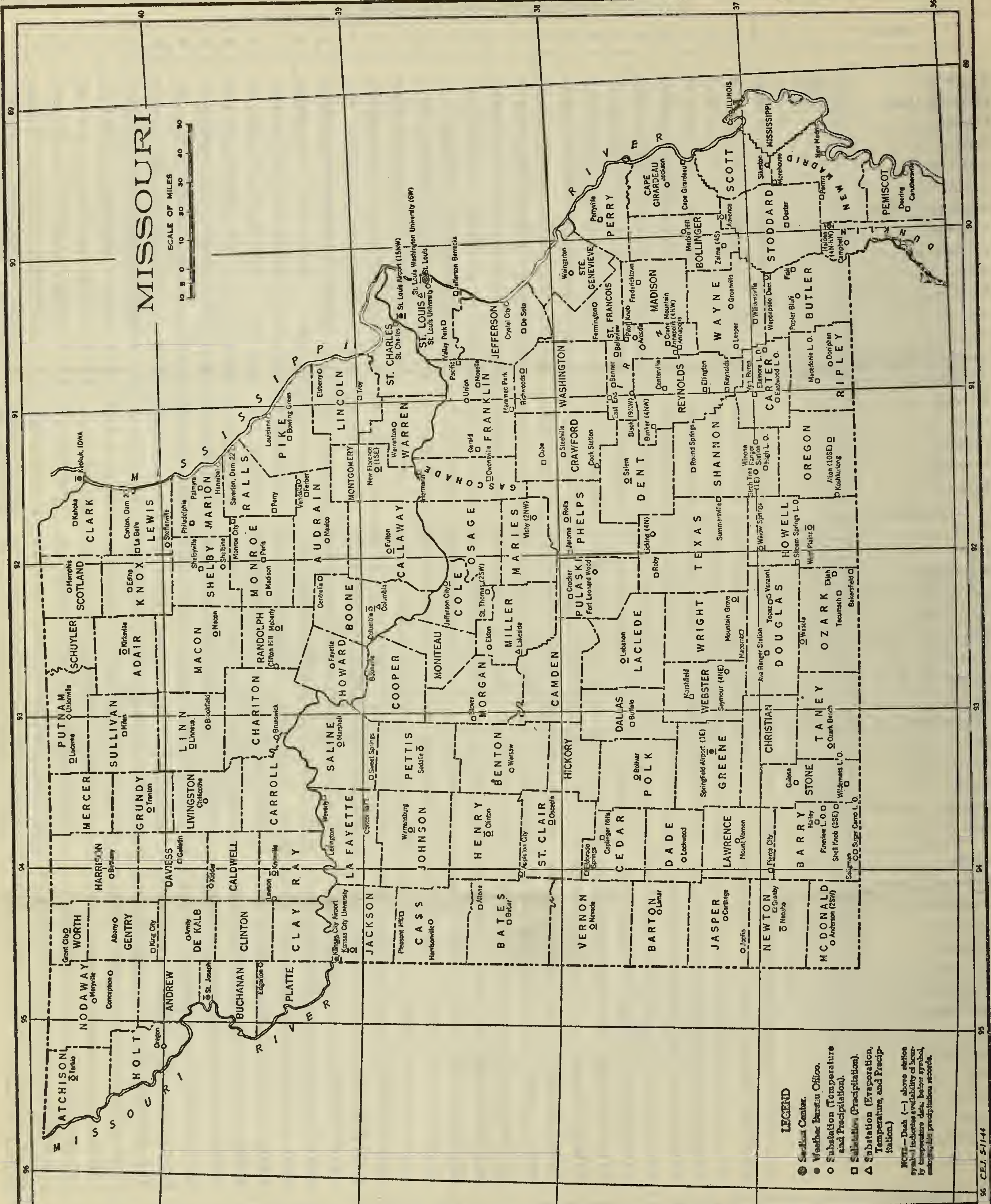
County	Date	Time	Nature of storm	Storm moved from	Width of path (miles)	Length of path (miles)	Loss of life	Property damage (estimated)	Remarks
Carroll	31	11:25 p.m. to 11:40 p.m.	Heavy hail	....	....	....	None	$7,500	Storm occurred at Carrollton and the surrounding area, resulting in slight damage to at least 500 buildings, mostly to roofs, local greenhouses, automobiles and trees. Some slight damage was done to wheat. The stones averaged one inch in diameter with some two inches, covering the ground.

Time used on this tabulation is Central Standard Time, unless otherwise indicated.

Daily Temperatures for March 1947

Stations		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Northern Division																																	
Brunswick /	Maximum..	24	26	34	41	34	40	40	42	43	46	54	46	47	34	32	40	39	43	38	41	40	72	70	50	45	38	40	60	50	57	49	43.7
	Minimum ..	18	15	9	10	22	28	28	25	25	27	27	36	40	28	22	21	20	19	28	26	25	28	31	43	33	23	23	28	32	27	27	25.6
Chillicothe Airport....	Maximum..	22	25	34	36	32	40	38	40	41	41	49	43	42	32	30	37	37	36	35	41	40	71	69	54	43	36	41	57	47	55	49	41.7
	Minimum ..	16	10	− 1	15	27	25	25	25	26	25	33	38	29	22	21	19	13	27	30	23	28	28	50	32	26	21	27	30	28	24	40	25.2
Columbia	Maximum..	26	27	35	44	36	39	37	40	41	45	54	52	48	35	33	40	38	45	47	43	43	74	71	54	47	40	40	58	53	58	47	44.8
	Minimum ..	17	14	9	27	29	28	31	23	25	27	33	40	31	23	22	21	21	27	33	31	31	29	54	33	28	23	29	29	34	29	39	28.1
Fayette...............	Maximum..	25	26	82	42	34	37	36	39	42	44	54	50	47	35	35	41	38	43	41	41	42	73	70	65	45	43	38	58	53	57	55	44.5
	Minimum ..	17	13	2	17	27	26	30	22	24	23	28	38	35	25	21	18	16	23	31	27	34	24	53	32	32	21	27	27	39	25	38	26.3
Grant City	Maximum..	20	22	31	34	31	40	40	37	40	40	50	44	40	33	31	37	36	35	35	41	40	75	70	60	46	36	41	57	56	53	52	42.0
	Minimum ..	15	10	1	16	24	25	31	30	30	25	34	40	31	20	18	18	15	30	28	27	31	29	50	32	28	17	25	30	34	25	40	26.1
Hannibal	Maximum..	25	28	31	36	35	42	36	39	40	42	53	55	47	34	31	38	40	42	45	43	42	68	68	54	41	39	42	55	50	52	45	43.2
	Minimum ..	17	13	7	20	30	27	28	23	23	24	27	36	30	22	19	19	22	24	31	29	31	27	50	31	24	19	27	29	30	27	37	25.9
Kansas City Airport..	Maximum..	22	27	37	38	33	35	39	41	41	48	53	45	45	32	30	44	41	52	35	47	48	74	71	58	50	38	42	64	51	62	63	45.4
	Minimum ..	18	12	8	20	26	24	32	28	28	30	40	41	32	25	25	22	29	32	32	30	35	37	57	34	30	25	29	33	35	32	44	29.8
Kirksville	Maximum..	23	22	..	36	33	42	39	40	44	41	51	48	44	34	28	38	42	38	36	41	39	71	68	60	43	39	47	58	57	54	50	ᵃ43.5
	Minimum ..	15	14	..	6	28	27	27	22	28	24	33	37	34	21	18	16	20	22	30	23	33	25	50	32	31	18	25	30	36	23	39	ᵃ26.2
Louisiana	Maximum..	28	29	32	39	36	45	38	40	43	43	52	58	51	43	31	39	40	41	49	45	42	70	70	64	40	38	40	55	55	51	50	45.1
	Minimum ..	20	15	6	16	32	29	29	25	19	20	21	37	43	27	21	21	21	22	32	32	35	25	53	33	32	22	29	29	40	22	39	27.3
Macon /...............	Maximum..	24	26	34	35	33	40	37	39	42	42	52	47	43	34	35	38	40	39	38	40	39	72	69	44	42	38	41	57	50	56	49	42.4
	Minimum ..	15	12	5	5	15	26	27	21	23	22	23	32	37	25	18	17	19	21	30	22	23	28	32	40	31	19	21	26	31	24	29	23.2
Maryville	Maximum..	20	27	33	36	32	38	40	38	39	40	49	45	40	34	31	40	37	37	36	49	43	74	72	68	47	36	41	59	57	54	55	43.5
	Minimum ..	15	12	5	21	25	25	29	29	31	26	34	38	32	22	18	14	14	28	27	27	32	31	52	32	27	18	25	29	32	28	41	26.4
Mexico /.............	Maximum..	24	25	36	41	32	41	35	45	42	44	54	53	47	34	31	38	37	41	46	45	39	70	71	44	42	39	37	55	51	55	48	43.3
	Minimum ..	18	13	6	8	23	26	27	20	21	22	25	32	37	27	21	20	17	17	27	29	29	28	32	43	31	20	23	27	31	24	35	24.5
Moberly /	Maximum..	22	22	32	32	82	40	36	40	42	41	52	49	44	33	29	37	37	39	40	40	40	71	68	45	43	38	37	55	49	54	50	41.6
	Minimum ..	12	12	2	14	25	22	26	21	25	22	30	36	39	26	20	17	14	22	31	24	27	27	40	38	31	21	25	27	35	24	33	24.8
Oregon	Maximum..	24	28	35	36	34	40	40	43	42	41	49	46	41	38	41	42	41	45	39	46	45	76	74	65	45	35	44	63	48	59	62	45.1
	Minimum ..	15	11	9	19	24	21	28	27	30	36	38	38	32	22	18	18	20	29	27	28	33	33	53	32	30	20	26	31	34	29	42	27.5
St. Charles /	Maximum..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
	Minimum ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
St. Joseph	Maximum..	21	25	34	37	31	38	41	41	41	42	50	42	41	31	30	42	39	45	36	46	45	76	75	52	46	36	41	62	50	60	61	43.8
	Minimum ..	17	13	11	21	26	24	29	29	32	30	37	40	30	24	21	21	24	32	30	30	34	35	51	33	28	24	27	33	35	32	43	28.9
Trenton	Maximum..	28	26	33	36	35	41	42	40	43	45	50	46	40	37	32	38	40	36	37	40	46	73	68	64	45	38	40	60	50	55	53	43.8
	Minimum ..	17	12	0	20	27	28	30	29	30	25	34	38	32	26	20	18	20	27	32	21	34	28	50	33	21	27	29	38	33	26	40	27.3
Unionville /	Maximum..	21	22	30	35	32	40	39	39	43	41	51	42	39	28	28	36	39	37	36	40	38	70	65	46	40	38	46	57	44	54	46	40.7
	Minimum ..	14	14	2	4	20	27	26	25	25	22	24	32	37	25	11	15	16	18	29	22	23	23	31	35	29	17	19	27	31	20	25	22.2
Warrenton	Maximum..	29	28	35	46	37	41	39	40	42	44	52	60	57	42	34	42	39	44	50	48	42	70	68	60	40	41	41	56	55	52	50	45.9
	Minimum ..	20	15	5	22	28	26	27	27	15	17	28	34	42	26	19	18	20	18	31	30	32	23	54	32	30	21	27	22	41	23	38	26.2
Keokuk, Iowa.........	Maximum..	27	29	31	37	37	43	37	39	42	45	53	57	51	34	30	39	40	40	39	43	41	69	72	58	36	38	48	56	46	53	48	43.8
	Minimum ..	17	18	10	22	31	30	29	23	27	28	36	37	34	22	21	20	22	26	31	29	32	40	55	34	24	21	31	32	33	28	43	28.6
Southwestern Division																																	
Clinton...............	Maximum..	25	28	36	47	33	36	43	43	44	55	56	50	47	33	30	45	40	54	39	45	49	75	71	52	50	39	38	60	57	63	58	46.5
	Minimum ..	16	9	5	22	28	28	27	24	25	28	32	41	33	25	24	22	27	25	32	30	31	29	52	32	31	24	30	28	32	28	44	27.9
Eldon	Maximum..	30	28	36	50	43	35	35	43	..	50	58	57	60	38	34	44	42	53	52	43	44	77	76	66	47	44	42	60	58	60	56	ᵃ48.7
	Minimum ..	19	12	8	22	28	27	31	23	..	22	32	39	36	27	22	20	23	24	31	30	33	28	52	32	32	22	29	27	42	27	38	ᵃ27.9
Harrisonville /	Maximum..	21	28	36	45	31	38	42	43	44	52	53	47	41	33	30	45	43	45	37	46	50	74	71	55	51	39	42	62	57	62	60	45.9
	Minimum ..	17	5	5	8	28	26	28	25	25	27	32	37	40	26	22	18	19	26	29	25	26	31	37	35	32	21	25	28	32	28	32	25.6
Jefferson City	Maximum..	29	26	36	44	39	38	36	40	43	47	55	54	57	37	31	41	41	49	52	41	41	73	69	69	46	43	48	57	55	62	52	46.8
	Minimum ..	20	13	5	14	28	28	31	23	20	21	29	38	36	28	22	22	22	20	31	31	31	24	53	31	33	22	28	25	43	24	38	26.9
Joplin Airport.........	Maximum..	29	25	42	63	44	36	42	45	49	50	53	58	49	41	37	49	41	55	49	49	54	71	68	64	53	45	44	60	61	69	63	50.3
	Minimum ..	14	7	8	32	30	29	27	27	28	32	38	43	33	28	25	23	28	27	32	32	36	36	54	35	37	28	29	28	38	32	48	30.5
Lamar /...............	Maximum..	30	31	40	55	37	36	40	45	48	56	52	57	49	38	40	50	44	56	48	47	55	73	68	55	55	45	36	60	60	65	63	49.5
	Minimum ..	19	5	6	10	30	28	27	25	25	27	30	38	42	28	24	20	25	25	26	31	32	33	42	44	32	26	26	27	29	30	36	27.4
Lebanon	Maximum..	30	26	38	57	52	32	34	43	46	51	52	59	54	37	39	44	42	58	53	47	49	69	66	58	49	45	41	58	59	61	59	48.5
	Minimum ..	20	10	4	25	31	27	29	27	21	25	31	38	37	29	21	19	27	25	35	30	33	28	52	32	32	20	29	25	41	26	40	28.0
Lexington /	Maximum..	26	30	35	42	32	35	37	38	40	50	55	45	45	42	35	38	45	42	40	39	50	59	67	47	50	40	50	44	40	60	47	43.4
	Minimum ..	18	10	8	16	30	27	30	27	26	34	40	44	38	28	22	24	23	28	31	29	34	32	40	34	33	23	24	32	30	28	35	28.3
Marshall	Maximum..	23	25	33	42	38	36	38	39	45	46	54	50	49	45	32	40	39	47	46	40	41	72	70	65	47	44	39	59	58	57	57	45.7
	Minimum ..	17	13	5	20	28	27	30	23	24	26	34	39	32	27	22	21	18	28	32	29	35	30	55	32	33	23	27	30	39	39	28	27.9
Mountain Grove	Maximum..	29	23	35	57	56	34	37	46	48	50	52	59	55	45	37	45	42	51	58	53	49	65	65	53	49	46	42	58	62	58	64	49.1
	Minimum ..	20	11	7	24	33	29	30	28	23	27	30	41	39	27	23	21	28	24	32	31	32	29	48	33	35	22	30	24	39	28	39	28.6
Neosho	Maximum..	33	27	47	64	62	39	41	47	50	57	56	61	52	46	40	51	50	58	56	49	55	72	68	66	53	52	47	62	62	69	70	53.6
	Minimum ..	20	9	4	29	34	29	33	28	26	31	32	42	37	28	25	22	31	22	26	32	33	30	58	42	33	28	35	23	35	33	50	30.3
Nevada	Maximum..	31	29	39	52	45	37	39	46	50	55	52	54	49	38	35	47	46	55	51	48	53	72	70	63	52	48	41	61	62	66	65	50.0
	Minimum ..	18	8	6	28	31	28	32	24	24	27	36	41	37	27	24	20	28	25	34	32	35	33	55	34	35	23	30	29	37	30	43	29.5
Sedalia	Maximum..	29	25	34	44	41	36	36	39	42	50	54	51	47	35	32	42	42	51	51	41	42	72	70	64	49	45	38	59	57	60	57	46.3
	Minimum ..	18	11	5	25	29	25	32	22	25	27	34	39	35	27	22	21	19	26	32	30	33	30	55	32	32	22	28	30	37	27	37	28.0
Springfield....4 mi. NW	Maximum..	26	22	34	57	44	31	35	43	46	50	48	54	50	42	33	45	42	52	51	42	48	72	64	50	49	42	40	58	59	60	62	46.8
	Minimum ..	12	5	5	25	30	28	29	27	24	31	34	41	30	25	23	22	28	24	31	30	33	32	48	32	35	23	28	26	35	30	43	28.0
Warrensburg..........	Maximum..	28	27	34	43	40	38	40	41	43	51	56	50	46	36	32	43	42	51	51	42	45	73	71	66	52	47	40	61	59	61	55	47.2
	Minimum ..	18	10	9	24	29	27	31	24	25	27	36	40	36	27	23	21	23	28	33	29	34	31	55	33	33	23	28	30	40	28	39	28.8
Southeastern Division																																	
Arcadia /	Maximum..	32	30	40	60	37	38	34	43	47	50	56	65	50	47	41	48	42	53	62	46	50	64	62	52	50	46	37	59	66	58	65	49.4
	Minimum ..	21	16	8	10	25	30	28	24	19	22	22	23	30	28	22	22	23	16	16	32	32	21	22	49	35	22	23	13	24	24	27	23.5
Birch Tree.... ½ mile E	Maximum..	30	27	39	60	58	36	37	43	49	52	54	63	56	50	42	46	43	52	62	59	53	64	62	52	51	48	44	60	66	61	70	51.3
	Minimum ..	25	14	0	23	34	30	31	28	19	27	23	40	45	24	24	24	30	15	27	33	28	20	51	38	35	24	30	18	35	28	36	27.7
Caruthersville.........	Maximum..	37	34	39	58	59	45	43	46	47	52	58	65	61	55	50	47	48	52	60	59	62	63	62	71	55	54	45	57	66	63	73	54.4
	Minimum ..	30	19	16	31	41	35	35	31	28	32	31	39	47	36	30	26	36	24	36	37	31	28	50	45	34	30	35	26	36	36	38	33.2
Crystal City	Maximum..	33	32	38	51	46	40	40	42	41	46	56	66	63	51	37	46	44	48	60	56	45	67	66	56	48	46	42	55	61	53	52	49.3
	Minimum ..	25	18	7	20	30	30	28	27	20	21	24	33	44	29	24	25	29	19	83	35	35	25	54	36	35	23	31	19	33	27	33	28.1
Doniphan	Maximum..	35	32	44	62	56	41	41	51	56	55	59	69	61	58	50	52	50	56	65	53	61	68	61	58	57	58	49	65	75	58	75	55.8
	Minimum ..	27	17	8	26	32	34	34	27	19	30	21	28	46	29	27	25	32	14	29	37	29	27	52	43	32	29	33	29	31	29	29	29.2
Farmington	Maximum..	29	30	39	57	45	37	35	33	43	47	56	65	57	50	39	45	40	51	62	54	47	63	63	53	48	43	40	56	62	55	59	48.5
	Minimum ..	21	16	11	26	30	28	26	25	22	23	26	32	43	27	22	23	28	17	33	32	32	23	47	35	35	21	29	17	40	26	35	27.5
Jackson	Maximum..	33	32	38	56	53	44	42	43	47	52	57	68	60	50	47	47	44	51	61	57	53	61	64	57	51	46	44	57	66	60	72	52.0
	Minimum ..	27	17	8	28	35	31	28	26	24	26	24	34	45	32	25	27	30	18	33	36	32	23	47	38	35	24	31	13	39	28	31	28.9
Poplar Bluff...........	Maximum..	35	33	40	61	56	41	39	48	50	55	58	65	59	55	51	50	47	53	63	52	59	64	61	57	55	50	46	58	72	68	73	54.0
	Minimum ..	28	18	14	28	34	33	32	28	24	30	25	33	45	32	28	27	33	20	31	36	32	25	49	51	35	28	32	25	36	31	30	30.7
Rolla /................	Maximum..	24	24	39	53	34	30	32	39	42	45	54	57	46	34	32	39	38	45	54	42	46	61	61	44	47	40	41	55	55	57	56	44.1
	Minimum ..	20	13	7	18	30	27	28	26	24	25	30	38	44	27	21	20	27	23	37	31	32	26	45	43	32	21	29	22	40	27	39	28.1
St. Louis............	Maximum..	29	27	35	44	37	42	34	35	41	44	51	62	55	39	32	40	39	45	55	45	41	66	65	52	42	40	36	54	53	50	54	44.6
	Minimum ..	19	18	15	30	30	30	29	28	26	29	33	39	37	26	24	25	28	28	34	33	34	32	51	33	27	23	30	28	37	31	33	29.8
Salem	Maximum..	29	28	37	59	47	34	33	42	46	50	55	64	56	41	38	44	41	52	59	52	48	65	62	53	49	44	40	56	61	58	53	48.3
	Minimum ..	20	15	6	23	32	28	28	26	19	23	29	40	39	26	22	22	28	19	32	32	30	23	50	35	34	22	30	21	41	25	37	27.6
Sikeston /	Maximum..	35	32	39	59	40	42	39	45	47	49	58	67	53	53	46	48	44	53	60	44	51	63	61	63	53	47	37	55	68	55	72	50.9
	Minimum ..	28	19	15	18	31	33	30	29	25	29	28	31	36	35	29	26	30	23	29	36	33	27	33	52	34	27	29	26	31	30	35	29.6
Union ....1½ mi. SE	Maximum..	30	29	36	49	40	40	39	39	42	45	53	64	59	44	33	41	40	46	56	50	43	70	67	60	45	42	40	54	56	55	51	47.0
	Minimum ..	22	17	4	15	30	28	30	28	19	20	24	30	43	29	23	22	26	19	33	33	35	23	52	32	34	23	30	23	34	23	34	27.0
West Plains	Maximum..	29	27	38	60	41	35	37	47	49	52	54	62	53	52	42	47	42	52	62	48	53	65	65	50	52	47	40	61	68	57	70	50.2
	Minimum ..	16	13	5	20	33	31	31	30	20	27	23	40	36	27	26	24	20	17	28	29	28	23	50	37	36	25	28	23	34	30	36	27.3
Cairo, Ill.	Maximum..	34	30	37	57	41	43	40	44	45	50	56	66	55	50	45	47	42	51	59	50	54	62	62	65	51	44	37	54	67	54	71	50.4
	Minimum ..	23	20	18	33	36	33	31	30	27	31	31	37	45	33	29	29	33	26	39	36	35	31	53	41	36	28	32	28	40	33	40	32.8

/ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs. ᵃ, ᵇ, ᶜ, etc., number of days missing, for example, ᵇ indicates two days missing. *Italics data interpolated.* § Partly interpolated.


MISSOURI
SCALE OF MILES
10 5 0 10 20 30 40 50
LEGEND
● Section Center.
● Weather Bureau Office.
○ Substation (Temperature and Precipitation).
□ Substation (Precipitation).
△ Substation (Evaporation, Temperature, and Precipitation.)
NOTE—Dash (—) above station symbol indicates availability of hourly temperature data; below symbol, autographic precipitation records.
MISSOURI RIVER
MISSISSIPPI RIVER
ATCHISON
NODAWAY
WORTH
HARRISON
MERCER
PUTNAM
SCHUYLER
SCOTLAND
CLARK
HOLT
GENTRY
SULLIVAN
ADAIR
KNOX
LEWIS
ANDREW
DAVIESS
GRUNDY
DE KALB
LIVINGSTON
LINN
MACON
SHELBY
MARION
BUCHANAN
CLINTON
CALDWELL
CHARITON
RANDOLPH
MONROE
RALLS
PLATTE
CLAY
RAY
CARROLL
AUDRAIN
PIKE
SALINE
HOWARD
BOONE
MONTGOMERY
LINCOLN
JACKSON
LA FAYETTE
COOPER
CALLAWAY
WARREN
ST. CHARLES
ST. LOUIS
CASS
JOHNSON
PETTIS
MONITEAU
COLE
OSAGE
GASCONADE
FRANKLIN
JEFFERSON
BATES
HENRY
BENTON
MORGAN
MILLER
MARIES
ST. CLAIR
CAMDEN
HICKORY
PULASKI
PHELPS
CRAWFORD
WASHINGTON
STE. GENEVIEVE
VERNON
CEDAR
DALLAS
LACLEDE
ST. FRANCOIS
PERRY
POLK
DENT
IRON
MADISON
CAPE GIRARDEAU
BARTON
DADE
WEBSTER
WRIGHT
TEXAS
REYNOLDS
BOLLINGER
JASPER
GREENE
SHANNON
WAYNE
SCOTT
LAWRENCE
CHRISTIAN
DOUGLAS
HOWELL
CARTER
STODDARD
MISSISSIPPI
NEWTON
BARRY
STONE
TANEY
OZARK
OREGON
RIPLEY
BUTLER
NEW MADRID
MC DONALD
DUNKLIN
PEMISCOT
Keokuk, IOWA
Cairo, ILLINOIS
C.E.J. 5-11-44

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U. S. DEPARTMENT OF COMMERCE, WEATHER BUREAU

CLIMATOLOGICAL DATA

SEP 15 1947

MISSOURI SECTION

H. F. WAHLGREN
ST. LOUIS, MO.

VOL. LI APRIL 1947 No. 4

PRICE: 5 CENTS A COPY; 25 CENTS A YEAR

SEP 16 1947

GENERAL SUMMARY

Although the average temperature for the State was practically normal during April, it was a very wet month, plagued by high winds, frequent thunderstorms, tornadoes, hailstorms, and prolonged floods, all of which combined made it a very unfavorable month for outdoor and field work. At the close of the month only a small percentage of the usual early spring planting of crops had been accomplished and this work was three to four weeks later than average for that time of year.

It was the fourth-wettest month of its name in the past 60 years, only April 1893, 1927, and 1945 averaging wetter than the current month. Precipitation during the month was practically all in the form of rain, snowfall being of little consequence, with measurable snowfall occurring at only a few stations in the extreme northwestern corner of the State. Monthly precipitation ranged from a total of 12.28 inches at Neosho to 3.22 inches at Doniphan. Rains were quite frequent, and at times heavy to excessive, occurring on an average of 13 days during the month, for the State, as a whole, while some stations had measurable rain on 18 or 19 days. All three divisions of the State received considerably more than normal precipitation, the averages with departures, being as follows: Northern Division, 6.42 inches, +2.91 inches; Southwestern Division, 7.27 inches, +3.02 inches; Southeastern Division, 6.64 inches, +2.17 inches; for the State, 6.78 inches, +2.70 inches. The frequent and persistent rainfall during the first week of April caused most rivers of the State to rise steadily, exceeding flood stages early in the month. Subsequent frequent heavy rains throughout the remainder of the month increased and prolonged the floods which extended into May, in portions of the Mississippi, Missouri, Osage and St. Francis Rivers. On the Missouri, at Jefferson City and below, crest stages this month were the highest since April 1945, while at Waverly and Boonville, the crests were the highest since June 1945 and May 1944, respectively. On the Mississippi River crests at Grafton and Chester, Ill., were the highest since May 1944, while at St. Louis the April crest was the highest since June 1945.

The month averaged 4.4° colder than April a year ago and it was the coldest month of its name since 1944. Extremes of temperature were not unusual. The 10th, 23d and 30th were the warmest and the 7th and 17th the coldest days during the month, as a rule. Freezing, or below, occurred on an average of only one day, for the State as a whole. Although frost formed on many nights from the 7th to the 26th there was very little damage due to the fact most crops, gardens, and truck had not been planted or were not suffcently advanced to be injured; also, the frosts were not severe enough, as a rule, to damage fruits or other crops that were advanced enough to be susceptible. The Southeastern Division had the highest monthly mean of 57.3°, or 0.3° above normal. The averages for the Southwestern and Northern Divisions, with departures, were 56.0°, −0.2° and 52.2°, −1.0°, respectively.

A number of damaging storms occurred during the month and are tabulated elsewhere in this issue.

(Continued on page 27)

PRESSURE, WIND, HUMIDITY, AND SUNSHINE

Stations	Sea-level pressure, extremes-inches				Wind				Relative humidity				Percentage of sunshine	Degree days
	Highest	Date	Lowest	Date	Average hourly velocity	Maximum velocity ¶	Direction of maximum	Date	12:30 a. m.	6:30 a. m.	12:30 p. m.	6:30 p. m.		
Columbia	30.45*	7	29.20*	5	9.2	35	sw.	5	77*	82*	60*	60*	48	346
K. C. Airport	30.46	5	29.19	5	12.4	44	sw.	5	76	81	62	59	49	342
St. Joseph	30.46*	7	29.12*	5	9.9	34	w.	5	81*	85*	62*	62*	53	371
St. Louis	30.42*	7	29.33*	5	13.8	49	sw.	10	80*	79	65	62*	51	287
Springfield	30.42	26	29.26	5	14.8	52	sw.	5	78	85	58	58	53	287
Cairo, Ill.	30.43	26	29.44	5	11.2	40	sw.	¶5	..	82	65	..	54	186
....	.....	..	.....	..	....	..	......	..	..	..	..	..	..	....

* Data for Airport station. ¶ For 5-minute period.

COMPARATIVE DATA FOR APRIL

Year	Temperature			Precipitation					Number of days			
	Average for State	Highest	Lowest	Average for State	Average, Northern Division	Average, Southwestern Division	Average, Southeastern Division	Snowfall, Average for State	Precip. .01 inch or more	Clear	Partly cloudy	Cloudy
1888	57.9	94	20	1.92	1.54	2.37	1.85	....	5	..	..	..
1889	55.7	90	27	2.66	2.84	3.31	1.83	....	8	..	..	..
1890	56.2	93	25	3.58	2.26	3.43	5.05	....	8	..	..	..
1891	56.8	93	15	3.46	3.88	4.08	2.41	T.	9	..	..	..
1892	53.1	90	24	5.83	5.14	5.35	7.01	0 0	11	9	8	13
1893	53.9	95	19	8.27	6.37	9.14	9.29	0.0	12	8	9	13
1894	56.1	95	20	3.11	2.24	3.52	3.58	T.	8	12	10	8
1895	57.9	100	24	2.04	1.87	2.08	2.17	T.	7	14	8	8
1896	61.9	92	17	3.57	3.10	4.35	3.25	0.0	9	11	12	7
1897	54.4	88	21	4.65	4.07	3.78	6.10	T.	10	10	11	9
1898	52.5	90	14	3.64	3.77	3.75	3.40	T.	10	12	9	9
1899	54.0	96	6	3.80	3.46	4.02	3.93	3.8	8	12	9	9
1900	56.7	89	21	3.50	3.05	3.66	3.78	0.7	9	11	10	9
1901	53.3	94	24	2.96	2.63	2.83	3.41	1.8	8	14	7	9
1902	53.9	95	19	2.82	1.98	3.30	3.18	T.	11	13	11	6
1903	55.9	91	26	3.37	3.97	3.34	2.79	1.2	9	11	10	9
1904	49.0	84	19	5.63	6.14	6.07	4.67	2.7	9	15	6	9
1905	54.9	92	20	3.09	3.66	2.28	3.34	0.3	6	14	8	8
1906	59.5	93	22	2.42	2.67	2.40	2.18	0.0	6	17	7	6
1907	48.7	89	16	3.33	2.62	3.83	3.55	T.	8	11	8	11
1908	56.6	90	18	5.89	2.55	6.58	8.53	T.	11	11	8	11
1909	54.8	93	19	4.72	4.36	3.60	6.21	T.	8	13	9	8
1910	54.8	97	21	3.58	2.74	3.55	4.45	0.9	11	12	7	11
1911	53.5	91	20	4.93	4.28	4.70	5.81	T.	10	12	8	10
1912	56.0	89	24	6.08	3.78	6.47	8.00	0.7	10	13	7	10
1913	56.2	94	25	3.32	3.36	3.10	3.50	T.	7	16	5	9
1914	55.2	91	18	3.14	2.57	3.11	3.75	T.	8	12	7	11
1915	61.9	96	18	2.12	1.93	2.64	1.79	T.	7	16	8	6
1916	53.5	93	21	3.32	2.77	3.93	3.27	1.9	10	11	8	11
1917	53.2	89	19	5.95	5.66	5.08	7.11	1.2	12	12	6	12
1918	50.8	93	19	5.33	3.61	5.26	7.11	0.9	11	12	6	12
1919	55.3	94	20	3.03	3.15	3.46	2.47	T.	9	12	7	11
1920	50.2	89	4	3.82	4.86	3.30	3.31	4.8	11	11	7	12
1921	56.0	91	19	5.36	4.70	5.22	6.16	1.1	10	13	7	10
1922	57.3	91	24	6.41	4.96	8.47	5.81	T.	11	13	6	11
1923	54.2	92	14	3.26	2.52	3.38	3.89	0.4	8	14	8	8
1924	56.6	95	11	2.15	1.26	2.78	2.40	T.	6	14	8	8
1925	61.0	92	24	4.12	4.12	4.73	3.52	0.0	10	12	9	9
1926	49.9	91	11	2.42	2.39	2.17	2.69	2.4	8	14	6	10
1927	57.7	94	18	8.68	6.73	8.61	10.70	T.	14	10	7	13
1928	51.6	88	16	4.86	2.76	5.46	6.37	0.2	8	13	7	10
1929	57.4	96	27	6.15	6.32	6.58	5.56	0.0	12	11	8	11
1930	59.1	96	23	2.02	1.89	2.77	1.39	0.0	8	14	8	8
1931	54.8	90	22	2.96	2.92	2.77	3.18	T.	9	14	6	10
1932	57.6	95	22	2.58	2.43	2.52	2.78	0.0	8	14	8	8
1933	54.9	88	22	3.84	2.08	3.82	5.62	0.7	10	11	9	10
1934	56.5	90	24	2.50	2.06	2.61	2.84	T.	7	16	8	6
1935	52.3	90	23	2.90	3.10	3.02	2.59	0.7	9	9	7	14
1936	53.0	95	9	2.45	2.00	1.93	3.41	0.5	8	16	7	7
1937	54.5	93	21	4.04	3.25	3.67	5.21	T.	10	10	8	12
1938	56.7	89	18	3.68	3.79	4.13	3.13	3.2	10	13	9	8
1939	53.4	88	16	5.01	4.35	4.32	6.36	0.1	10	11	8	11
1940	54.0	92	15	4.41	3.01	4.57	5.64	0.3	11	11	8	11
1941	59.2	90	29	4.49	3.47	6.20	3.81	0.0	10	11	9	10
1942	59.1	94	20	3.83	3.07	4.56	3.87	0.0	9	14	8	8
1943	56.0	91	18	2.91	2.28	3.15	3.30	T.	9	13	10	7
1944	52.2	89	16	6.68	7.69	5.78	6.57	0.0	13	8	9	13
1945	55.9	86	20	7.75	5.73	9.00	8.52	T	14	9	8	13
1946	59.6	94	25	3.37	2.28	3.95	3.87	0.0	8	13	8	9
1947	55.2	90	22	6.78	6.42	7.27	6.64	0.0	13	9	8	13
....	....	..	..	....	....	....	....	....	..	..	..	..
Period	**55.3**	**100**	**4**	**4.08**	**3.51**	**4.25**	**4.47**	**0.5**	**9**	**12**	**8**	**10**

NAT. HIST.

Climatological Data for April 1947

Stations	Counties	Elevation, feet	Temperature, in degrees Fahr.							Precipitation, in inches						Number of days				Prevailing direction of wind	Observers
			Length of record, years	Mean	Departure from the normal	Highest	Date	Lowest	Date	Length of record, years	Total	Departure from the normal	Greatest in 24 hours [4]	Date	Total snowfall, unmelted	With precip., .01 inch or more	Clear	Partly cloudy	Cloudy		
Northern Division																					
Albany	Gentry	930	6	51.8[b]	......	82[b]	30	27[b]	7	18	5.60	+2.81	1.18	9-10	*T.*	14	7[c]	12[c]	8[c]	s.	Curtis E. Grace
Amity	DeKalb	1,007	1	52.2	......	81	30	29	7	12	5.26	+1.16	1.27	4-5	0.5	14	10	5	15	ne.	O. M. Colhour
Bethany	Harrison	916	52	50.9	− 0.6	81	30	27	7	54	5.04	+1.75	0.97	4-5	0	10	9	7	14	ne.	B. A. McGregor
Brookfield	Linn	767	6	52.4	......	84	30	31	7†	6	5.76	......	2.07	4-5	0	16	8	11	11	e.	G. F. Breen
Brunswick	Chariton	652	66	52.2	− 2.0	84	30	32	7	68	7.31	+3.48	1.95	4-5	0	12	13	1	16	nw.	O. K. Benecke
Canton, Lock & Dam 20	Lewis	488	9	52.2	− 0.7	80	30	35	7†	17	6.27	+3.51	2.39	4-5	*T.*	16	8	8	14	se.	Lockmaster
Carrollton	Carroll	754	1	53.6	......	85	30	30	7	1	7.49	......	1.62	4-5	0	16	10	8	12	e.	Harold E. Finley
Chillicothe 2 mi ESE(C)	Livingston	771	38	51.2	− 0.8	83	30	30	7	41	5.05	+1.83	1.88	4-5	0	18	4	11	15	nw.	Civil Aeronautics Adm.
Columbia	Boone	740	57	54.0	− 0.8	83	30	33	2	57	6.45	+2.68	1.79	24-25	0	14	11	9	10	sw.	U. S. Weather Bureau
Conception	Nodaway	1,108	58	51.6	− 0.6	82	30	28	7†	63	6.35	+3.62	1.95	3-4	0.3	11	7	14	9	se.	Fr. Adelhelm Hess
Edgerton	Platte	856	27	51.7	− 2.1	83	30	28	7	44	4.98	+1.90	2.30	3	0	6	19	0	11	nw.	Mrs. Sadie F. Pack
Elsberry	Lincoln	449	16	53.0	− 0.6	84	23	30	9	16	5.69	+2.64	2.25	24-25	0	14	9	3	18	n.	Soil Conservation Service
Fayette	Howard	760	67	53.4	− 0.8	82	30	31	7	64	6.61	+3.06	1.17	9-10	0	16	11	2	17	se.	Irvin E. Schnell
Fulton	Callaway	818	59	53.1	− 1.5	82	30	34	14†	55	9.22	+5.21	2.02	24-25	0	17	14	5	11	n.	Frank E. Hillgartner
Grant City	Worth	1,134	43	50.6[a]	− 1.6	81[a]	30	26[a]	7	55	6.19	+3.23	1.40	9-10	0.2	12	9[a]	6[a]	14[a]	e.	J. Homer Korn
Hannibal	Marion	759	55	52.1	− 1.3	80	23†	31	7	63	5.39	+2.20	0.94	5	0	14	6	11	13	s.	Hannibal Water Dept.
Kansas City Airport	Jackson	741	58	54.0	− 0.8	85	30	34	16	58	7.76	+4.24	2.27	4-5	T.	19	6	7	17	n.	U. S. Weather Bureau
Kansas City Univ.	Jackson	908	9	55.0	− 1.6	84	30	33	16	9	8.44	+3.15	2.02	2-3	0	17	9	8	13	sw.	University of Kansas City
Kidder	Caldwell	1,020	55	51.4	− 0.8	81	30	28	7	59	6.75	+3.47	2.44	4-5	*T.*	13	8	8	14	n.	Mrs. Geraldine Terry
Kirksville	Adair	969	58	52.0	+ 0.1	83	30	30	7	65	5.02	+0.92	....	..	0	16	12[c]	7[c]	8[c]	sw.	Arthur Lee Jones
Kirksville Airport	Adair	970	8	50.4	......	80	30	29	7	8	4.68	......	1.69	4-5	T.	17	8	9	18	ne.	Civil Aeronautics Adm.
Lathrop	Clinton	1,071	0	52.0	......	82	30	30	7	0	7.52	......	2.60	4-5	0	15	7[b]	9[b]	12[b]	se.	E. L. Fisher
Louisiana	Pike	469	53	54.2	+ 0.2	81	30	32	17	66	7.39	+3.67	1.31	24-25	0	12	8	10	12	ne.	Stark Bro's Nurseries
Macon	Macon	875	48	51.0	− 2.1	81	30	29	7	54	6.34	+2.68	2.76	4-5	0	14	11	3	16	nw.	John W. Atwell
Maryville	Nodaway	1,169	57	50.8	0.0	82	30	27	7†	53	6.16	+3.15	2.10	3-4	1.0	13	6	4	20	ne.	R. B. Montomery
Memphis	Scotland	787	8	49.4	......	81	30	31	21	17	4.60	+1.40	1.87	4-5	T.	13	9	5	16	nw.	John W. Alexander
Mexico	Audrain	800	58	51.7	− 2.1	80	23†	31	7	69	8.10	+4.35	1.92	24-25	0	18	8	3	19	sw.	Darrence W. Stuart
Moberly 3½ mi. NE	Randolph	860	10	51.4	− 2.3	81	30	30	7	10	7.04	+3.01	1.37	4-5	0	17	13	6	11	n.	Robert A. Berg
New Florence. 1 mi SE	Montgomery	885	4	52.8	.....	81	23	33	7	5	6.85	......	2.10	24-25	0	15	6	6	18	s.	U. S. Weather Bureau
Oregon	Holt	1,048	91	52.2	− 0.5	83	30	28	16	91	5.87	+2.58	1.86	9-10	2.0	13	12	6	12	nw.	James M. Curry
Polo	Caldwell	1,000	1	51.4	......	81	30	29	7	1	6.86	......	2.03	4-5	0	15	9	13	8	e.	F. B. Albright
St. Charles	St. Charles	520	59	....	......	..	..	..	..	69	....	......	....	..	....	..	..	..	..	......	....
St. Joseph	Buchanan	957	37	53.0	− 0.5	85	30	32	7	75	5.60	+2.41	1.20	8	T.	18	11	9	10	e.	U. S. Weather Bureau
Salisbury	Chariton	723	1	53.3	......	83	30	31	7	1	7.47	......	1.92	4-5	0	15	12	7	11	s.	David H. Robertson
Saverton, Lock No. 22.	Ralls	472	9	54.2	......	82	30	35	7†	9	7.29	+2.60	1.73	4-5	0	19	16	5	9	se.	Lockmaster
Shelbina	Shelby	779	6	52.4	......	82	30	28	21	54	5.41	+1.66	1.11	4-5	*T.*	14	9	7	14	nw.	Guyman Hatcher
Steffenville	Lewis	650	49	52.0	− 1.1	80	23†	30	7	54	5.97	+2.39	2.49	4-5	T.	15	9	8	13	se.	Mrs. Fannie V. Gross
Tarkio	Atchison	916	44	50.2	− 2.0	82	30	28	7†	53	4.43	+1.19	1.94	3-4	T.	10	5	10	15	n.	Civil Aeronautics Adm.
Trenton	Grundy	822	51	54.1	+ 1.4	85	30	30	7	52	6.61	+3.03	2.69	4-5	0	13	12	10	8	n.	W. H. Estes
Unionville	Putnam	1,062	54	49.4	− 1.6	80	30	28	7	54	5.96	+2.26	1.82	4	0	14	9	14	7	se.	Mrs. Dora A. Wilson
Vandalia	Audrain	766	3	53.0	......	80	30	31	7†	8	7.15	......	1.55	24-25	0	9	12	7	11	nw.	Mrs. Naomi K. Stoutz
Warrenton	Warren	816	65	54.6	− 0.2	84	23	30	7†	57	6.06	+2.02	2.12	24-25	0	12	11	16	3	e.	W. T. Zimmerman
Keokuk, Iowa	Lee, Ia.	574	75	51.0	− 1.3	83	30	32	16	75	6.35	+3.36	3.70	4-5	T.	15	9	9	12	ne.	U. S. Weather Bureau
Division means	**and extremes**	.....	..	**52.2**	**− 1.0**	**85**	**30**	**26**	**7**	..	**6.42**	**+2.91**	**3.67**	**4-5**	**0.1**	**14**	**9**	**8**	**13**	**nw.**	
Southwestern Division																					
Anderson 1½ mi SW	McDonald	1,000	43	56.2	− 0.5	86	30	26	17	48	9.81	+5.12	2.47	9-10	0	15	13	5	12	sw.	Samuel G. Chamberlain
Appleton City. 2 mi. W	Bates	813	52	55.1	− 1.0	83	30	33	17	55	6.05	+1.92	2.20	9-10	0	13	6	15	9	sw.	F. Paul Eye
Bolivar	Polk	1,071	44	57.3	+ 1.0	83	30	33	17	52	7.39	+3.22	2.28	9-10	0	11	9	10	11	sw.	Southwest Baptist College
Boonville	Cooper	650	9	52.8	− 1.1	82	30	33	2	70	7.27	+3.40	1.42	24-25	0	15	8	4	18	ne.	Boonville Water Dept.
Butler	Bates	865	1	55.8	......	85	30	31	17	6	7.79	......	2.41	9-10	0	19	4	14	12	ne.	Harley W. Johnson
Camdenton	Pulaski	940	1	58.4	......	85	30	34	17	1	8.42	......	2.58	24-25	0	8	9	15	6	sw.	Mo. Conservation Com.
Carthage	Jasper	962	13	57.9	......	87	30	32	17	23	9.42	......	3.29	23-24	0	11	9	17	4	sw.	Carthage W. and E. Plant
Clinton	Henry	786	54	55.6	− 0.7	85	30	35	17	60	7.82	+3.65	2.17	9-10	0	14	6	13	11	ne.	U. S. Weather Bureau
Eldon	Miller	934	52	57.0	+ 1.6	85	23	34	7	48	7.00	+2.84	3.05	24-25	0	10	8	16	6	ne.	Arthur Rothwell
Harrisonville	Cass	904	69	53.6	− 0.3	84	30	32	7	72	8.07	+4.69	1.34	4-5	0	13	11	4	15	se.	Jeffrey B. Patterson
Jefferson City	Cole	557	57	55.0	− 1.0	83	23†	32	2†	65	8.44	+4.46	2.20	24-25	0	16	10	8	12	n.	K. W. O. S. Radio Farm
Joplin Airport	Jasper	988	25	57.1	− 1.4	85	30	35	17	42	8.27	+3.57	2.55	24-25	0	14	6	8	16	sw.	Civil Aeronautics Adm.
Lakeside	Miller	595	16	56.2	− 0.2	83	30	33	7	16	8.73	+5.75	2.95	24-25	0	15	11	7	12	ne.	W. S. Frame
Lamar	Barton	980	59	55.0	− 1.6	83	30	33	17	66	5.95	+1.43	2.28	24-25	0	11	8	14	8	sw.	Mrs. Marie Mann
Lebanon	Laclede	1,265	59	54.0	− 1.5	84	23	32	17	60	8.26	+3.91	2.91	24-25	0	13	10	2	18	sw.	Mrs. Rosa E. Montelius
Lexington	Lafayette	688	62	52.6	− 2.0	84	30	32	7	63	6.81	+3.01	1.60	3-4	0	15	12	1	17	e.	Tilton Davis
Lockwood	Dade	1,078	41	57.1	+ 0.6	83	30	34	17	51	8 57	+4.04	2.95	23-24	0	12	11	17	2	sw.	Hubert A. Nieman
Marshall	Saline	779	60	54.6	− 0.2	80	29	32	20	57	6.36	+2.47	1.95	4-5	0	11	11	7	12	ne.	Thomas A. Reid
Monett	Barry	1,317	0	55.4	......	81	23†	32	17	0	9.14	......	2.70	23-24	0	12	10	14	6	s.	Mo. Univ. Fruit Exp. Sta.
Mountain Grove	Wright	1,463	46	57.2	+ 2.3	82	23†	32	17	50	6.74	+2.22	1.93	24-25	0	15	9	12	9	se.	Mo. Fruit Exp. Station
Mount Vernon	Lawrence	1,174	35	58.0	+ 1.9	84	23†	31	17	47	10.13	+5.68	2.89	24-25	0	13	7	13	10	sw.	James C. Williamson
Neosho	Newton	1,011	60	59.0	+ 0.7	86	30	30	17	64	12.28	+7.72	3.90	23-24	0	13	12	13	5	se.	U. S. Fisheries Station
Nevada	Vernon	862	54	57.3	+ 1.6	85	30	33	17	55	6.69	+2.40	2.05	24-25	0	14	7	12	11	sw.	Henry Kraft
Ozark Beach	Taney	700	7	58.9	......	88	30	31	17	22	4.24	−0.23	1.18	10-11	0	10	0	12	18	sw.	Empire District Elec. Co.
Sedalia	Pettis	910	34	55.0	− 0.3	83	30	33	7	36	7.44	+3.71	2.22	9-10	0	13	12	5	13	sw.	Dr. J. E. Cannaday
Seligman	Barry	1,542	46	57.6	+ 1.0	84	23	31	17	44	4.88	+0.82	1.16	8	0	9	11[b]	12[b]	5[b]	sw.	Floyd E. Fawver
Seymour 3½ miles NE	Webster	1,642	41	52.4	− 3.3	82	23	28	17	41	8.31	+3.99	2.35	24-25	0	13	8	3	19	s.	Ira H. Hailey
Springfield 4 mi. NW	Greene	1,265	59	55.9	+ 0.7	87	23	31	17	59	7.38	+3.52	3.00	23-24	0	13	8	3	19	s.	U. S. Weather Bureau
Sweet Springs	Saline	700	6	54.2	......	86	30	30	7	6	6.54	......	1.47	9-10	0	17	12	7	11	ne.	H. F. Nelson
Warrensburg	Johnson	878	60	55.2[a]	− 0.9	85[a]	30	34[a]	7	67	7.14	+3.48	1.61	9-10	0	15	9	11	10	s.	Central Teachers College
Warsaw	Benton	687	46	57.4	+ 0.7	86	30	33	7	52	6.92	+2.46	2.30	24-25	0	13	8	10	12	w.	Dora B. Johnson
Wasola	Ozark	1,294	6	58.8	......	86	23	32	17	7	4.78	......	1.30	24-25	0	11	10	10	10	w.	A. W. Pinckney
Waynesville	Pulaski	805	1	....	......	..	..	..	..	1	....	......	....	..	....	..	..	..	..	......	Jesse H. Barlow
Division means	**and extremes**	.....	..	**56.0**	**− 0.2**	**88**	**30**	**26**	**17**	..	**7.27**	**+3.02**	**3.90**	**23-24**	**0**	**13**	**9**	**10**	**11**	**sw.**	
Southeastern Division																					
Advance ¼ mile W	Stoddard	354	10	56.7	− 0.8	82	10	31	17	10	5.49	+0.32	1.60	10-11	0	11	8	8	14	s.	U. S. Weather Bureau
Arcadia	Iron	926	66	55.0	− 0.3	86	30	27	17	69	9.58	+4.76	2.55	24-25	0	11	11	1	18	e.	Arcadia College
Birch Tree ½ mile E	Shannon	1.000	52	57.9[b]	+ 0.8	83[b]	30	25[b]	17	53	5.87§	+1.11	1.30	24-25	0	11	12[b]	9[b]	7[b]	sw.	Mrs. Mildred E. Catlett
Black 9 miles NW	Iron	1.000	54	55.1	+ 0.1	85	23	22	17	54	8 04	+3.15	2.28	23-24	0	12	9	15	6	sw.	M. L. Volner
Campbell	Dunklin	314	21	60.0	+ 1.3	84	30	34	17	21	5.87	+1.61	1.50	10-11	0	14	13	8	9	s.	Mrs. Ruth Christian
Cape Girardeau	Cape Girardeau	347	2	59.0	......	82	30	33	17	47	6.41	+2.53	2.08	8	0	13	14	6	10	sw.	Dr. Robert Martin
Caruthersville	Pemiscot	265	51	61.8	+ 1.6	84	10	36	17	55	6 00	+1.48	2.36	10-11	T.	12	11	6	13	se.	Victor T. Malloure
Clearwater Dam	Wayne	648	1	59.0	......	86	30	26	17	1	5.91	......	1.47	10	0	12	10	9	11	sw.	U. S. Engineer Office
Crystal City	Jefferson	420	13	57.8	+ 2.8	86	23	30	17	13	6.17	+2.53	1.47	24-25	0	13	9	3	18	nw.	Richard K. Ragland
Doniphan	Ripley	344	43	60.2	+ 1.7	87	30	27	17	43	3.22	−1.71	0.69	8	0	10	13	4	13	sw.	Boyce Lackey
Farmington	St. Francois	896	36	56.4	− 0.5	83	30	30	17	50	8.63	+4.11	2.53	24-25	0	15	7	9	14	s.	F. M. Karsch
Greenville	Wayne	460	38	58.6	+ 2.0	86	30	25	17	40	4.61	−0.09	1.24	10-11	0	12	14	4	12	s.	Beuford Shoemake
Jackson	Cape Girardeau	428	56	58.8	+ 1.7	85	30	29	17	57	6.25	+1.91	1.49	10-11	0	14	11	7	12	s.	Danny Siebert
Koshkonong	Oregon	958	46	59.7	+ 1.2	84	30	34	17	47	5.24	+0.22	1.47	8-9	0	11	11	6	13	s.	Mrs. Genevieve T. Smith
Licking 4 miles N	Texas	1,170	10	55.6	− 1.1	83	23	29	17	10	8.86	+4.18	3.10	24-25	0	10	7	7	16	s.	Fern E. Austin

Continued on next page

Climatological Data for April 1947—Continued from preceding page

Stations	Counties	Elevation, feet	Temperature, in degrees, Fahr.							Precipitation, in inches						Number of days				Prevailing direction of wind	Observers
			Length of record, years	Mean	Departure from the normal	Highest	Date	Lowest	Date	Length of record, years	Total	Departure from the normal	Greatest in 24 hours [4]	Date	Total snowfall, unmelted	With precip., .01 inch or more	Clear	Partly cloudy	Cloudy		
Southeastern Division—	*Concluded*																				
Marble Hill	Bollinger	532	52	57.5	+ 0.3	85	30	28	17	54	4.74	+0.25	1.34	19	0	13	16	5	9	s.	R. A. DeWitt
Poplar Bluff	Butler	339	42	60.1	+ 0.6	86	30	32	17	43	5.52	+1.01	1.39	10-11	0	12	13	3	14	s.	Osmon M. Richardson
Rolla	Phelps	1,202	47	53.8	− 2.1	85	23	32	17	63	6.89	+2.67	2.55	24-25	0	13	7	15	8	w.	Rolla School of Mines
St. Louis:																					
City Office		465	110	55.9	− 0.2	85	23	37	16	110	6.18	+2.37	2.07	24-25	0	14	8	5	17	s.	**Section Center**
St. Louis Airport	St. Louis	556	10	54.8	0.0	87	23	35	9	16	7.25	+3.63	2.05	29	0	15	4	5	21	s.	U. S. Weather Bureau
St. Louis University	St. Louis City	578	35	56.0	+ 0.3	85	23	36	17	35	6.16	+2.30	1.24	25	0	15	14	7	9	se.	St. Louis University
Salem	Dent	1,206	43	56.0	0.0	85	23	29	17	46	8.02	+3.52	2.41	23-24	0	13	7	13	10	s.	E. E. Martin
Sikeston	Scott	318	40	55.5	− 2.6	83	10	32	12	50	6.40	+1.78	1.66	10-11	0	12	15	4	11	s.	Mrs. Lucy W. Humphreys
Union 1½ mi. SE	Franklin	520	9	56.0[b]	− 0.9	90[b]	23	30[b]	17	30	5.12	+0.76	1.70	25	0	14	10[c]	8[c]	9[c]	n.	Cornelius Sieges
Vichy 2 mi. NW	Maries	1,125	11	55.0	……	85	23	34	17	12	7.49	……	3.36	24-25	0	12	7	10	13	se.	Civil Aeronautics Adm.
Wappapello Dam	Butler	475	8	58.6	……	85	30	34	17	8	5.16	−0.32	1.35	10-11	0	13	11	7	12	se.	U. S. Engineer Office
Webster Groves	St. Louis	507	1	56.2	……	87	23	34	17	2	6.28	……	1.95	24-25	0	13	11	8	11	nw.	R. W. Lawrie
Weingarten	St. Genevieve	833	6	56.0	……	84	23	32	17	7	8.63	……	3.70	24	0	12	9	11	10	n.	William J. Miller
West Plains	Howell	1,005	10	56.9	− 0.1	84	30	28	17	10	5.75	+0.10	1.25	10	0	11	6	8	16	se.	U. S. Weather Bureau
Willow Springs 500 ft E	Howell	1,238	6	57.8	……	84	23	26	17	40	7.07	+2.23	1.55	24-25	0	12	10	8	12	s.	Allen Frazee
Cairo, Ill.	Alexander, Ill.	314	75	59.8	+ 0.7	84	10	38	17	76	6.30	+2.58	1.79	10-11	T.	13	8	4	18	ne.	U. S. Weather Bureau
Division means	**and extremes**	…..	..	57.3	+ 0.3	90	23	22	17	..	6.64	+2.17	3.70	24	0	13	10	7	13	s.	
State means	**and extremes**	…..	..	55.2	− 0.1	90	23	22	17	..	6.78	+2.70	3.90	23-24	0	13	9	8	13	sw.	

The departures from normal temperature are computed from the averages of the entire period for stations having 10 or more years of record. Departures of precipitation for stations with 15 years or more of record are computed from a normal or "standard mean", adjusted to a uniform 35-year period; for stations of 10 to 14 years the means for the period of record are used. The normal may be found by adding the departures when minus (−) or subtracting when plus (+). Figures and letters following stations indicate distance in miles and direction of station from the city Post Office, unless otherwise indicated. T. Trace or 0.005 inch or less. [a], [b], [c], etc., number of days missing; for example, [b], indicates two days missing. Italics data interpolated. § Partly interpolated. † And other dates. ‡ Received too late to be included in means and summaries. [4] Best available used for stations not equipped with recorders. Post office address of: Altona is Adrian; Clearwater Dam is Piedmont; Crane Mountain is Arcadia; East End is Goodland; Eastwood Lookout is Van Buren; Hailey is Cassville; High Lookout is Birch Tree; Macedonia Lookout is Doniphan; Oates Tower is Centerville; Perry is Center; Pineview Lookout is Cape Fair; Sugar Camp Lookout is Seligman; Topaz is Cabool; Wilderness Lookout is Lampe. (C) Airport. ¶ Indicates plus.

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Sunshine averaged approximately 8% less than normal this month, for the State as a whole, and each of the six stations equipped with sunshine recorders had 5% to 11% less sunshine than normal.

The prevailing wet weather and resulting floods seriously delayed planting of all crops and by the end of the month only about 3% of the corn crop had been planted and less than 50% of the intended oat crop had been sown in the northern half of the State, while practically all of the intended oat acreage had been sown in the extreme southern portion. It appeared that much of the acreage intended for oats would be planted to other crops, due to the lateness of the season. Wheat and other fall seeded small grains and all grasses made good growth during April, but needed more sunshine and drier weather the latter half of the month. Considerable wheat and alfalfa, on low bottom land, was flooded and killed, particularly where flood waters remained for a considerable time. Fruit trees and strawberries bloomed heavily during the latter half of the month and prospects for a large fruit crop were very good at the close of April. All fruits were quite late in blooming this spring, because of the prevailing low temperatures during March and the wet, cloudy weather in April. Planting of cotton in the southeastern counties was under way the latter part of the month. A prolonged period of warm, dry weather was badly needed as the month closed, to permit the ground to dry out sufficently so that it could be worked and long delayed planting of crops begun.—M. R. W.

TEMPERATURE

The monthly mean for the State, 105 stations reporting, was 55.2°, or 0.1° below the 60-year April average. The highest monthly mean was 61.8° at Caruthersville, and the lowest was 49.4° at Memphis and Unionville. The highest reported was 90° at Union on the 23d, and the lowest was 22° near Black on the 17th.

PRECIPITATION

The average for the State, 215 stations reporting, was 6.78 inches, or 2.70 inches more than the 60-year April average. The greatest monthly amount was 12.28 inches at Neosho, and the least was 3.22 inches at Doniphan. The greatest amount reported in 24 hours was 3.90 inches at Neosho on the 23d-24th. The average number of days with 0.01 inch, or more, was 13.

Measurable snowfall occurred at only a few stations. The greatest monthly amount reported was 2.0 inches, at Oregon.

MISCELLANEOUS PHENOMENA

Dust.—Local, on 5th, 6th, 10th, 18th, 19th, 23d.

Floods.—In Black River, at Poplar Bluff, 12th to 13th; below Leeper, 25th to 28th. In Bourbeuse River, at Union, 26th to 28th. In Gasconade River, at Jerome, 25th to 28th. In Grand River, 4th to 18th and 21st to 24th. In Meramec River, at Pacific, on 22d; at Sullivan, and below, 25th to 30th. In Mississippi River, in the reach bordering the State, on the 6th and continued into May. In Missouri River, at Kansas City, 12th to 13th; at Waverly, and below, on 5th and continued into May. In Osage River, 12th to 20th; on the 25th and continued into May. In St. Francis River, at Fisk, 12th to 20th; on 26th and continued into May.

Fogs.—Heavy, 1st, 2d, 4th, 5th, 8th, 9th, 16th, 20th, 26th.

Frosts.—Light, 7th, 9th, 13th, 14th, 17th, 20th, 21st, 24th, 26th; heavy, 17th, 26th; killing, 2d, 7th, 16th, 17th.

Hail.—Light, 1st at Salisbury, near Seymour, Farmington; 3d at Bethany and University of Kansas City; 4th at University of Kansas City and Altona; 9th at Grant City and Caplinger Mills; 10th at Maryville, Oregon, Appleton City, Lockwood, Roby, Springfield, Wasola, Crane Mountain, Ellington, High Lookout, Macedonia Lookout, West Plains; 15th at Mexico, New Florence, Caplinger Mills, Joplin, St. Louis County; 19th at Centerville and Steelville; 20th at Richwoods; 22d at Appleton City; 23d at Carrollton, Martinsburg, Mexico, Vandalia, Appleton City; 29th at Auxvasse, Carrollton, Fayette, Hannibal, Kirksville, Mexico, Unionville, Warrenton, Bolivar, Eldon, Monett, Springfield, Cook Station, Cuba, St.

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Daily Precipitation for April 1947

Stations	Drainage-basins	Day of month																															Total
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	..	
Northern Division																																	
Albany	Grand	.01	....	.82	.78	.94	.01	....	.12	.02	1.16	....	....	....	....	.17	.14	....	....	.18	.78	....	.27	....	....	....	....	....	....	.20	....	....	5.60
Amity	...do	T.	....	1.14	.19	1.27	.01	....	.03	.02	.75	....	....	T.	....	.18	.14	....	....	.22	.46	....	.34	T.	....	.04	....	....	....	.47	....	....	5.26
Auxvasse	Missouri	.28	....	T.	.01	.80	....	....	.02	.07	1.03	....	....	....	....	.27	.05	....	....	.10	.97	....	.19	.06	1.67	1.08	....	....	....	T.	.22	....	6.82
Bethany	Grand	T.	....	.60	.42	.97	T.	....	T.	T.	.86	....	....	....	....	.10	.20	....	....	.04	.56	....	.45	....	....	....	....	....	....	.84	T.	....	5.04
Bowling Green[2]	Mississippi	1.29	.07	....	.29	1.12	.30	....	....	.02	.02	.74	....	....	....	....	.52	....	....	.16	*	.98	....	.04	.74	2.00	.05	....	....	....	....	....	8.34
Brookfield[2]	Grand	.39	....	.05	.80	2.00	.07	....	.03	.12	....	.50	....	....	....	....	.45	....	....	.25	.40	....	.08	....	.20	.10	....	....	....	.20	.12	....	5.76
Browning.....3 mi. NE	...do	.06	....	.54	.12	1.50	....	....	T.	T.	.59	....	....	....	....	.18	.20	....	....	.17	.11	....	.16	.02	T.	.03	....	....	....	.27	....	....	3.95
Brunswick[2]	...do	.48	T.	....	.92	1.95	....	....	T.	....	.20	.70	....	T	....	....	.72	....	....	.37	.30	....	.14	....	.33	.72	....	....	....	.48	....	....	7.31
Canton, Lock No. 20[2]	Mississippi	.15	.10	....	.49	2.39	.16	....	....	....	.15	.24	....	....	....	....	.35	.02	....	.02	.54	....	T.	.01	.71	.14	....	....	....	.29	.51	....	6.27
Carrollton	Missouri	.36	....	1.12	.80	1.62	...	....	.03	....	.91	....	....	.03	....	.56	.14	....	....	.31	.31	....	.14	.08	.68	.18	....	....	....	.22	T.	....	7.49
Centralia[2]	Mississippi	1.20	.08	....	.24	.65	....	....	....	....	T.	1.29	....	....	....	*	.68	....	....	.16	*	.80	.24	.08	.40	1.58	....	....	....	.09	....	....	7.49
Chillicothe[2]......(B)	Grand	.23	T.	....	.99	1.84	.10	....	T.	....	.16	.57	....	....	....	....	.40	.11	....	.15	.28	....	.09	....	.04	.08	....	....	....	.17	.15	....	5.36
Chillicothe[3] 2 mi ESE (C)	...do	.02	....	.76	1.54	.34	....	.02	.01	.01	.68	....	T.	T.	....	.43	.02	....	....	.44	.01	....	.11	.02	.03	.05	....	....	....	.28	.28	....	5.05
Columbia[1, 5]	Missouri	.05	....	.10	.08	.47	....	....	T.	.18	1.50	....	T.	....	....	.65	.07	....	....	.08	.44	....	.22	.82	1.54	.25	....	....	....	T.	....	....	6.45
Columbia[5]..9 mi. WNW	...do	.12	....	.04	.12	.28	....	....	T.	....	1.54	....	....	....	....	.57	.18	....	....	.09	.46	....	.25	T.	1.27	1.20	....	....	....	T.	.05	....	6.17
Conception	...do	T.	....	1.18	.77	.72	....	....	.06	T.	1.31	....	....	....	....	.11	.31	....	....	.25	.67	....	.78	....	....	....	....	....	....	.19	....	....	6.35
Edgerton	...do	T.	....	2.30	.30	T.	....	....	T.	T.	....	....	....	....	....	.50	....	....	....	.84	T.	....	.84	....	T.	....	....	....	....	.20	....	....	4.98
Edina[2]	Mississippi	.12	.04	....	.66	2.90	.09	....	T.	....	.20	.35	....	....	....	....	.40	....	....	T.	.34	....	T.	.02	.58	.03	....	....	....	.40	.25	....	6.38
Elsberry S. C. S.[2]	...do	.46	.19	T.	.11	T	.34	....	....	....	.08	.60	....	....	....	....	.32	....	....	*	.98	.12	....	....	....	2.10	.15	....	....	.21	.03	....	5.69
Fayette	Missouri	.32	....	.50	.33	.88	....	....	.02	.02	1.15	....	T.	....	....	.48	.09	....	....	.17	.41	....	.31	.29	.80	.75	....	....	....	.09	....	....	6.61
Fulton[2]	...do	1.43	T.	....	.10	1.19	.03	....	....	.01	.26	.62	....	....	....	*	.48	....	....	.23	.44	....	.13	.07	.95	2.02	.02	....	....	....	1.24	....	9.22
Gallatin[2]	Grand	T.	.06	....	.95	2.40	T.	....	....	....	.50	.15	....	....	....	....	.40	....	....	.12	1.00	....	.33	....	....	.05	....	....	....	.29	.13	....	6.38
Grant City	...do	T.	....	1.23	.97	.53	....	....	.08	T.	1.40	....	....	....	....	.11	.11	....	....	.31	.41	....	.39	.02	....	....	....	....	....	.63	....	....	6.19
Hannibal[1].........(A)	Mississippi	T.	....	.55	.11	.94	....	....	T.	.03	.87	....	....	....	....	.55	.08	....	....	.28	.56	....	.06	.40	.74	.19	....	....	....	.03	....	....	5.39
Hannibal[2].........(B)	...do	.60	T.	....	1.11	.74	.30	....	T.	....	T.	.88	....	....	....	....	.50	....	....	.18	.57	.05	....	T.	.34	1.00	.04	....	....	.13	.04	....	6.48
Hermann[2]	Missouri	.92	.18	....	.30	....	.17	....	....	....	.10	.52	....	....	....	....	.43	....	....	....	.41	.08	....	....	.75	2.50	....	....	....	.10	.58	....	7.04
Kahoka[2]	Mississippi	.14	.09	....	.65	3.52	.15	....	.06	....	.21	.26	....	....	....	....	.55	T.	....	*	.44	....	*	.03	.48	....	....	....	....	.50	.35	....	7.43
Kansas City Airport[1, 5]	Missouri	T.	.01	1.78	1.73	.54	....	.01	.02	.09	1.10	....	.18	.06	....	.38	.01	....	....	.43	.06	....	.15	T.	.44	.12	....	....	T.	.46	.19	....	7.76
Kansas City University	...do	....	....	2.02	.95	1.72	....	....	.05	.09	.79	.01	.08	.26	....	.35	.06	....	....	.27	.16	....	.14	T.	.51	.15	....	....	....	.83	T.	....	8.44
Kidder[2]	Grand	.02	....	....	1.05	2.34	.09	....	....	....	.45	.31	....	....	....	....	.44	....	....	.10	.75	T.	.25	T.	....	.10	....	....	....	.63	.22	....	6.75
King City	Missouri	....	....	1.03	.27	.81	....	....	.10	.03	1.47	....	....	....	....	.30	.24	....	....	.31	.10	....	.41	....	.05	....	....	....	....	.74	....	....	5.86
Kirksville	Mississippi	.06	....	.20	.62	*	1.87	....	....	....	.60	.03	....	....	....	.20	.19	....	....	.24	.21	....	....	*	.06	.05	....	....	....	.49	.20	....	5.02
Kirksville Airport[5]	...do	.04	....	.55	1.05	.64	....	....	.08	.02	.55	....	....	....	....	.32	.07	....	....	.54	.02	....	.06	.01	.03	.01	....	....	....	.60	.09	....	4.68
LaBelle[2]	...do	.32	.13	....	.65	3.16	.20	....	....	....	.10	....	....	....	....	....	.65	T.	....	....	.17	....	.01	T.	.27	.12	....	....	....	.34	.08	....	6.20
Lathrop	Grand	.10	T.	1.80	.30	2.30	....	....	.11	.05	.68	T.	....	.05	....	.30	.10	....	....	.24	.60	....	.21	....	T.	.18	....	....	....	.50	T.	....	7.52
Linneus	...do	.05	....	.46	.59	1.94	....	....	....	....	.64	....	....	....	....	.25	.19	....	....	.24	.24	....	.08	.09	.01	....	....	....	....	.91	....	....	5.69
Louisiana.........(A)	Mississippi	.50	.02	....	.35	.95	....	....	....	....	.90	....	....	....	....	.22	.35	....	....	.22	1.25	....	....	.06	1.26	1.31	....	....	....	....	....	....	7.39
Louisiana[2].........(B)	...do	.62	.32	....	.40	.62	.45	....	....	T.	....	.73	....	....	....	....	.54	....	....	T.	1.04	.26	....	.05	.58	1.86	.09	....	....	.01	.01	....	7.58
Lucerne[2]	Grand	....	....	....	.91	2.80	.90	....	.10	....	.10	.60	....	....	....	....	.30	....	....	T.	....	....	T.	....	.30	....	....	....	....	.20	.50	....	6.71
Macon[2]	Chariton	.24	T.	....	.57	2.62	.14	....	.01	....	.05	.50	....	....	....	....	.50	....	....	.09	.30	....	....	.05	.15	.44	....	....	....	.68	....	....	6.34
Madison[2]	Mississippi	.51	....	....	.74	.90	....	....	.11	....	.20	.83	....	....	....	....	.48	....	....	.30	.65	.05	.10	....	.32	1.10	....	....	....	.18	.12	....	6.59
Martinsburg[2]	Missouri	.76	.36	....	.10	.78	.17	....	T.	.03	.15	.75	....	....	....	....	.40	....	....	.04	1.02	.12	....	.13	.76	1.98	.05	....	....	T.	.08	....	7.68
Maryville	...do	.03	....	1.38	.76	.41	....	....	.04	.03	1.39	....	....	....	....	.25	.22	....	....	.07	.32	....	.28	....	....	....	....	....	....	.98	....	....	6.16
Memphis[2]	Mississippi	.12	.06	....	.48	1.82	.05	....	.04	....	.18	.24	....	....	....	....	.34	....	....	.06	.55	....	T.	....	T.	....	....	....	....	.24	.42	....	4.60
Mexico[2]	...do	1.19	.04	....	.15	.74	.19	....	.03	....	.07	1.35	....	....	....	....	.55	....	....	.08	.62	.03	.02	.55	.54	1.89	.03	....	....	....	.03	....	8.10
Milan[2]	Grand	.22	....	....	.82	1.55	....	....	....	....	.27	.40	....	....	....	....	.33	....	....	.06	.48	....	.23	....	....	T.	....	....	....	T.	.12	....	4.48
Moberly[2] ....3½ mi. NE	Mississippi	1.15	.10	....	.80	1.32	.05	....	.02	....	*	.80	....	....	....	....	.45	....	....	.35	.40	.01	.08	T.	.70	.77	....	....	....	*	.04	....	7.04
Monroe City	...do	.23	....	T.	.62	1.43	....	....	....	....	1.01	....	....	....	....	.38	.14	....	....	.38	.48	....	....	....	.84	.63	....	....	....	.31	....	....	6.45
New Florence[3, 5] 1 mi SE	Missouri	.34	....	.14	.01	.59	....	....	T.	.17	.52	T.	....	....	....	.45	.02	....	....	.20	.65	....	.07	.63	1.71	.39	....	....	....	.96	....	....	6.85
Oregon	...do	....	....	1.26	.22	.53	....	....	.13	.09	1.77	....	....	....	....	.22	.27	....	....	.52	.27	....	.40	....	....	.04	....	....	....	.15	....	....	5.87
Palmyra[2]	Mississippi	....	....	....	.60	1.80	....	....	....	....	*	.85	....	....	....	....	.52	....	....	.02	.55	....	....	.06	.30	.72	....	....	....	.04	....	....	5 46
Paris[2]	...do	.60	.02	....	.68	.80	.22	....	.03	T.	.11	.88	....	....	....	....	.50	....	....	.30	.62	T.	.13	T.	.53	1.23	....	....	....	.03	.01	....	6.69
Perry ....1 mile E	...do	.65	....	....	.30	.85	....	....	....	....	1.15	....	....	....	....	.55	.10	....	....	.24	.70	....	.15	....	.65	1.35	....	....	....	.05	....	....	6.74
Philadelphia	...do	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Polo[2]	Missouri	.13	T.	....	1.33	2.00	.03	....	.07	....	.34	.48	....	.05	....	....	.69	....	....	.17	.37	....	.15	....	T.	.34	....	....	....	.45	.26	....	6.86
St. Charles[2] ....(A)	.... do	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
St. Charles[2] ....(B)	.... do	.31	.08	....	.80	T.	.25	....	....	....	.16	.71	....	....	....	....	.47	T.	....	.06	.87	.06	....	....	.46	1.72	.11	....	....	.01	1.65	....	7.72
St. Joseph[1, 5]	....do	.03	....	1.19	.72	.21	....	.01	.01	.06	.94	....	....	.02	....	.46	.03	....	....	.82	.03	....	.48	T.	.02	.06	....	....	....	.42	.09	....	5.60
Salisbury	Chariton	.58	....	.32	1.63	1.92	....	....	.02	T.	.77	T.	....	T.	....	.44	.08	....	....	.42	.16	....	.07	.04	.59	.32	....	....	....	.11	....	....	7.47
Saverton, Lock No. 22[2]	Mississippi	.56	.02	....	.36	1.45	.28	....	.02	T.	.01	.80	....	....	....	....	.78	.02	....	.16	.92	.05	....	.06	.23	1.00	.04	....	....	.17	.36	....	7.29
Shelbina	...do	.14	....	.12	.91	1.11	....	....	T.	....	.74	....	....	T.	....	.34	.02	....	....	.16	.30	....	.07	*	1.06	.19	....	....	....	.25	....	....	5.41
Shelbyville[2]	...do	.34	.08	....	.73	2.63	.14	....	....	....	....	.46	....	....	....	....	.43	....	....	....	.17	....	....	T.	.63	.43	....	....	....	.21	....	....	6.25
Steffenville	...do	.11	....	.10	.64	2.49	....	....	T.	....	.40	....	....	....	....	.27	.28	....	....	.14	.17	....	.03	*	.50	.22	....	....	....	.55	.07	....	5.97
Tarkio[3]	Missouri	T.	....	1.84	.16	.09	....	....	T.	.74	.70	....	....	....	....	.09	....	....	....	.22	....	....	.09	T.	....	T.	....	....	T.	.27	.23	....	4.43
Trenton[2]	Grand	T.	.01	....	.82	2.69	.16	....	....	.02	.41	.34	....	....	....	....	.54	....	....	.10	.60	....	.37	....	....	.02	....	....	....	.53	....	....	6.61
Troy[2]	Mississippi	.45	.13	....	.14	.01	.25	....	....	....	.12	.60	....	....	....	....	.37	T.	....	.07	1.70	.12	....	.05	.40	2.53	.06	....	....	.12	1.11	....	8.23
Unionville[2]	Chariton	.11	....	....	1.10	1.82	.04	....	.07	T.	.32	.35	....	....	....	....	.34	....	....	.02	.56	....	.12	.03	....	....	....	....	....	.03	1.05	....	5.96
Vandalia	Mississippi	.79	....	....	T.	.94	....	....	T.	....	.75	T.	....	....	....	.39	....	....	....	.28	1.07	....	.16	T.	1.22	1.55	....	....	....	T.	T.	....	7.15
Warrenton	...do	.12	....	....	....	.33	....	....	....	....	.71	.02	....	....	....	.18	.15	....	....	.22	.47	T.	....	....	.97	2.12	....	....	....	.08	.69	....	6.06
Keokuk, Iowa[1]	...do	.02	....	.48	2.00	1.78	....	....	.02	....	.39	....	....	....	....	.33	.06	....	....	.15	.02	....	.03	.71	.03	....	....	....	....	.32	.01	....	6.35
Southwestern Division																																	
Altona[2]	Osage	....	....	....	.30	2.00	....	....	....	....	1.55	2.00	....	.21	....	*	.83	....	....	....	.35	T.	.25	....	.50	1.50	....	....	....	....	....	....	9.49
Anderson[2] ...1½ mi. SW	Neosho	.04	.27	....	....	*	1.20	....	.85	.30	.64	1.83	....	T.	.02	.01	.50	....	....	....	.01	....	....	....	2.14	1.92	....	....	....	.08	T.	....	9.81
Appleton City..2 mi. W	Osage	.07	T.	.20	T.	.81	....	....	....	.50	1.70	....	T.	.02	....	.95	.02	....	....	T.	.04	....	.14	.10	.75	.75	....	....	....	T.	....	....	6.05
Ava Ranger Station[2]	White	....	.26	....	....	.44	....	....	.27	.43	.05	1.17	....	....	....	....	....	....	....	....	.20	....	....	....	2.07	1.06	....	....	....	....	.12	....	6.07
Bolivar	Osage	.28	....	.03	T.	.50	....	....	.03	.18	2.10	....	....	....	....	.15	.04	....	....	....	T.	....	T.	....	2.01	1.96	....	....	....	....	.11	....	7.39
Boonville[2] ....(A)	Missouri	.60	.03	....	.39	.90	.03	....	....	....	.44	.90	....	....	....	.65	.20	....	....	.11	.68	T.	.26	.03	.63	1.42	....	....	....	....	....	....	7.27
Boonville[2] ....(B)	...do	.86	.01	....	.45	.90	....	....	T.	....	.20	1.24	....	....	....	....	.87	....	....	.10	.92	....	.06	.28	.57	1.51	T.	....	....	....	....	....	7.97
Bradleyville[2]	White	....	.19	....	....	.56	.06	....	.34	.58	.08	1.60	....	....	....	....	....	....	....	....	.18	....	....	....	.45	1.00	....	....	....	....	.26	....	5.30
Buffalo[2]	Osage	.35	....	....	T.	.98	.04	....	.02	.03	.40	1.86	....	....	....	....	.40	....	....	....	.31	.06	....	....	2.13	3.48	.06	....	....	....	.08	....	10.20
Butler	...do	.06	T.	.33	.03	1.64	....	....	....	.43	1.98	.01	.09	.04	....	.70	.07	....	T.	.01	.17	....	.33	.12	1.02	.64	....	....	.02	.10	....	....	7.79
Camdenton	...do	.18	....	....	....	1.20	....	....	....	....	1.25	.36	....	....	....	.25	....	....	....	....	.25	....	....	....	2.35	2.58	....	....	....	....	....	....	8.42
Caplinger Mills[2]	...do	.23	....	T.	....	.34	....	....	....	....	.65	.91	....	....	....	T.	.39	....	....	T.	.12	T.	....	....	60	2.20	....	....	....	....	....	....	5.44
Carthage	Neosho	.09	....	.27	....	.38	....	....	.21	....	2.52	....	.05	....	....	.69	....	....	....	....	.03	....	....	.03	3.29	1.86	....	....	....	....	....	....	9.42
Cassville[2]	White	.22	.10	....	....	.34	.01	....	.40	.48	.01	.76	....	T.	T.	.01	.03	....	....	....	T	....	....	....	1.04	1.87	.01	....	....	.04	.15	....	5.47
Chadwick[2]	...do	....	.25	....	....	.37	.04	....	.35	.17	.33	.87	....	....	....	....	....	....	....	....	.19	.04	....	....	1.72	3.81	....	....	....	....	.29	....	8.43
Clinton[3]	Osage	.02	....	.19	.11	.92	....	....	....	.53	1.64	....	....	....	....	1.04	.02	....	....	T.	.09	....	.44	.28	1.58	.22	....	....	....	....	.74	....	7.82
Concordia	Missouri	T.	....	1.23	T.	1.23	....	....	.03	.14	1.23	....	.10	T.	....	.57	.03	....	....	.60	.18	....	.39	T.	.70	.26	....	....	....	.05	....	....	6.74
Crocker	Osage	.04	....	....	T.	.42	....	....	....	.08	1.50	....	....	....	....	.27	....	....	....	....	.62	....	....	....	1.92	2.55	....	....	....	....	....	....	7.40
Eldon	Missouri	.30	....	T.	....	1.10	....	....	....	....	1.25	....	....	....	....	.26	.12	....	....	.21	.42	....	T.	.03	....	3.05	....	....	....	....	.26	....	7.00
Eldorado Springs	Osage	.33	....	.06	....	.97	....	....	....	.35	.89	....	.07	....	....	1.04	.09	....	....	T.	T.	....	....	.17	.93	1.21	....	....	....	....	....	....	6.11
Elijah[2]	White	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Forsyth[2]	...do	....	.23	....	....	.31	....	....	.10	.70	.10	1.12	....	....	....	....	....	....	....	....	.05	....	....	....	.39	.94	....	....	....	....	.05	....	3.99
Galena[2]	...do	.02	.20	....	....	.53	.06	....	.20	.59	.14	1.10	....	.01	T.	....	....	....	....	....	.35	....	....	....	1.24	1.82	....	....	....	....	.05	....	6.31
Granby[2]	...do	.02	.10	....	.05	.98	.02	....	.59	.82	*	*3.25*	....	....	*.01*	.07	.03	....	....	....	....	....	....	....	2.66	3.46	....	....	....	.05	....	....	§12.11
Hailey	...do	1.46	....	....	....	.26	....	.91	....	....	1.11	....	....	....	....	....	....	....	....	....	....	....	....	....	1.31	1.12	....	....	....	....	.09	....	6.26
Harrisonville[2]	Osage	T.	....	....	1.05	1.34	.04	....	....	....	1.01	.75	....	.53	....	....	.71	....	....	.22	.36	T.	.20	....	.77	1.06	....	....	....	.03	....	....	8.07
Jefferson City[2] ....(A)	Missouri	.61	.50	....	.17	.90	.07	....	....	.01	.31	.72	....	....	....	T.	.83	....	....	.23	*	.59	T.	T.	.96	2.17	.03	....	....	.02	.32	....	8.44
Jefferson City[2] .....(B)	...do	.51	.48	....	.19	.75	.06	....	....	T.	.26	.74	....	....	....	T.	.88	....	....	.36	.37	.02	T.	T.	.86	2.44	.03	....	....	T.	.20	....	8.15

Continued on next page

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Stations	Drainage-basins	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	..	Total
Southwestern Division—	*Concluded*																																
Joplin Airport[1]	Neosho	.11	....	.30	T.	.33	....	....	.23	.16	2.05	....	.03	T.	....	.79	T.	....	....	.05	.01	....	T.	1.54	2.54	.03	....	....	.10	T.	....	....	8.27
Lakeside[3], [5]	Osage	.56	.27	....	.06	1.30	.02	....	....	....	.23	.95	....	....	....	.02	.32	....	....	.10	1.07	.02	....	....	.83	2.95	T.	....	....	....	.03	....	8.73
Lamar[2]	Neosho	.04	.10	....	.10	.60	....	....	....	....	.45	1.04	T.	.15	....	T.	.55	....	....	....	....	....	....	....	.62	2.28	.02	....	....	....	....	....	5.95
Lebanon[2]	Osage	.21	.14	....	....	.30	.10	....	.16	....	.63	1.22	....	....	....	T.	.14	....	....	....	.50	.07	....	....	1.39	2.91	....	....	....	....	.49	....	8.26
Lexington[2]	Missouri	....	....	....	1.60	1.50	.15	....	T.	....	.30	.80	....	.15	....	....	.70	....	....	.30	*	.20	.18	....	.03	.65	....	....	....	.05	.20	....	6.81
Lockwood	Osage	.07	....	.10	....	1.19	....	....	.06	.04	2.17	....	.06	T.	....	.65	.06	....	....	T.	T.	....	T.	....	2.95	1.18	....	....	T.	.04	....	....	8.57
Mansfield[2]	White	.15	.32	....	....	.41	.07	....	.43	.06	.05	1.20	....	....	....	....	.04	....	....	....	.84	....	....	....	1.43	1.11	....	....	....	.09	....	....	6.20
Marshall	Missouri	T.	....	.64	.03	1.95	....	....	....	T.	.82	....	.05	....	....	*	.20	....	....	*	.34	....	....	T.	.97	1.36	....	....	....	T.	....	....	6.36
Marshfield[2]	White	.22	.20	.02	....	.42	.14	....	.19	.09	.02	1.02	....	....	....	.01	.29	....	....	....	.62	T.	....	....	1.20	3.57	.02	....	....	....	.23	....	8.26
Monett[2]	Neosho	.02	.13	....	....	.49	T.	....	.60	.19	.09	1.60	....	T.	....	....	.09	....	....	....	.02	T.	....	....	2.70	2.34	....	....	....	....	.87	....	9.14
Mountain Grove[2]	Gasconade	.05	.15	....	T.	.45	.05	....	.30	.27	.18	1.27	....	....	....	....	.22	....	....	....	.48	....	....	....	1.34	1.93	.01	....	....	.02	.02	....	6.74
Mount Vernon[2]	Neosho	....	.18	....	.15	.50	.07	....	.30	.27	.52	1.64	.02	....	....	.14	....	....	....	....	T.	....	....	....	2.15	2.89	....	....	....	....	1.30	....	10.13
Neosho	....do	.13	....	....	....	1.35	....	....	.97	.23	3.62	....	....	.02	....	.05	....	....	....	....	.01	....	.06	.24	3.90	1.66	....	....	.04	....	....	....	12.28
Nevada	Osage	.21	....	.12	....	.58	....	....	....	.80	1.01	....	.15	.08	....	1.31	.06	....	....	T.	T.	....	.04	.16	1.08	.97	....	....	.12	....	....	....	6.69
Osceola[2]	....do	1.17	.24	....	.03	.47	.07	....	....	....	.40	.90	....	....	....	T.	.67	....	....	.03	.06	.06	.02	....	.19	2.09	....	....	....	....	....	....	6.40
Ozark[2]	White	.12	.25	....	....	.54	....	....	.30	.43	....	1.03	....	....	....	....	....	....	....	....	.43	....	....	....	2.47	2.59	T.	....	....	....	.17	....	8.33
Ozark Beach[2]	....do	....	.26	....	....	.27	.10	....	.17	.71	.08	1.18	....	....	....	....	....	....	....	....	....	....	....	....	.52	.85	....	....	....	....	.10	....	4.24
Pierce City[2]	Neosho	....	.15	....	....	.74	....	....	.76	....	.40	2.10	....	....	....	.03	.26	....	....	....	....	....	....	....	1.60	3.44	....	....	....	.02	.18	....	9.68
Pineview Lookout[2]	White	.20	....	....	....	.26	....	.50	....	.55	1.20	....	....	....	....	....	....	....	....	.11	....	....	....	....	.60	1.80	....	....	....	....	....	....	5.22
Pleasant Hill[2]	Osage	....	....	.04	1.96	2.29	.04	....	.11	....	.88	.94	....	.54	T.	....	.84	....	....	.35	.33	....	.26	....	.32	1.05	....	....	....	.04	....	....	9.99
Roby	Gasconade	.34	....	....	....	.33	....	....	.35	.18	1.17	T.	....	....	....	.02	.05	....	....	....	.60	....	....	....	2.56	1.66	....	....	....	....	.21	....	7.47
St. Thomas[2]. 2¼ mi SW	Osage	.65	*.20*	....	.19	.31	....	....	....	....	.21	.92	....	....	....	....	.32	....	....	.25	....	.25	....	....	.67	3.00	*T.*	....	....	....	*.02*	....	§6.99
Sedalia	Missouri	....	....	.37	.08	1.20	....	....	....	.11	2.11	....	....	....	....	.60	.08	....	....	.12	.25	....	.20	.05	1.47	.80	....	....	....	....	....	....	7.44
Seligman[2]	Neosho	....	.26	....	....	.40	....	....	1.12	.04	....	1.14	....	....	....	.06	....	....	....	....	....	....	....	....	.33	1.00	....	....	....	....	.53	....	4.88
Seymour[2]....3½ mi. NE	White	.25	.44	....	....	.56	.14	....	.57	.27	.61	1.24	....	....	T.	T.	.11	....	....	....	.36	T.	T.	....	1.30	2.35	.11	....	....	....	....	....	8.31
Shell Knob[2]...3 mi. SE	....do	T.	.23	....	....	.71	T.	....	.60	.37	.04	1.00	....	....	....	....	....	....	....	....	.09	....	....	....	.37	1.40	....	....	....	.02	.17	....	5.00
Siloam Sprgs Lookout[2]	....do	....	.26	....	....	....	....	....	....	.92	....	1.16	....	....	....	....	....	....	....	....	.61	....	....	....	.68	1.66	....	....	....	....	.37	....	5.66
Springfield[1], [5]. 4 mi. NW	....do	.28	T.	.03	T.	.67	....	....	.33	.06	1.69	....	....	T.	....	.03	.01	....	....	T.	.04	T.	T.	.62	2.96	.15	....	T.	T.	.51	....	....	7.38
Stover[2]‡	Missouri	.75	.08	....	*	.22	....	....	....	....	.45	.78	....	....	....	.04	.78	....	....	.29	....	.40	.11	....	.27	1.83	....	....	....	....	....	....	6.00
Sugar Camp Lookout[2]‡	White	....	....	....	....	.15	....	....	....	....	....	....	1.09	....	....	....	.02	....	....	....	.02	....	....	....	.35	1.55	....	....	....	.10	.75	....	4.03
Sweet Springs	Missouri	.02	....	.76	.08	1.37	....	....	.03	.08	1.39	....	.09	....	....	.46	.08	....	....	.29	.15	....	.35	.06	.69	.59	....	....	....	.05	....	....	6.54
Tecumseh[2]...¼ mi. W	White	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Topaz[2]	....do	....	....	....	....	.27	.20	....	*	.85	.20	1.20	....	....	....	....	....	....	....	....	1.25	....	....	....	1.00	1.30	....	....	....	.11	....	....	6.38
Vanzant[2]....3¾ mi. SE	....do	....	.16	....	.07	.27	.30	....	.37	.49	.13	1.09	....	....	....	....	....	....	....	....	1.05	....	....	....	.83	1.31	....	....	....	.08	....	....	6.15
Waco[2]	Spring	.12	*.13*	.18	....	.70	....	....	.09	.02	.73	.93	.10	.08	T.	.22	.53	....	....	....	T.	....	....	....	.60	2.34	....	....	....	T.	....	....	§6.77
Warrensburg	Missouri	....	....	.80	T.	1.45	....	....	T.	.18	1.43	....	.19	.01	....	.64	.06	....	....	.59	.06	....	.30	.05	.75	.59	....	....	....	.04	....	....	7.14
Warsaw[2]....(A)	Osage	1.02	.36	....	.04	.40	.08	....	....	....	.40	.95	....	....	....	T.	.47	....	....	.04	.57	T.	....	.11	.18	2.30	....	....	....	....	....	....	6.92
Warsaw[2]....(B)	....do	1.19	.18	....	T.	.53	.03	....	....	....	.40	.97	....	....	....	....	.46	....	....	....	.69	....	T.	....	.23	2.26	....	....	....	....	....	....	6.94
Wasola[2]	White	T.	.13	....	....	.33	.09	....	.21	.90	....	.88	....	....	....	....	....	....	....	....	.29	....	....	....	.47	1.30	....	....	....	.06	.12	....	4.78
Waverly[2]	Missouri	T.	....	....	1.84	2.18	T.	....	....	....	.48	T.	....	.06	....	....	.72	....	....	.32	.28	T	.40	T.	.16	1.52	T.	....	....	....	....	....	7.96
Waynesville	Gasconade	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Wilderness Lookout[2]	White	T.	.35	....	....	.41	.01	....	.18	.67	.22	1.14	....	....	....	....	....	....	....	....	.03	....	....	....	.30	*	1.14	....	....	....	.58	....	5.03
Southeastern Division																																	
Advance[3].....¼ mile W	St. Francis	.50	T.	....	T.	.25	....	....	1.57	T.	1.40	.26	....	....	....	.08	....	....	....	....	.44	T.	....	....	.49	.37	....	....	....	.03	.10	....	5.49
Alton.......10 miles SE	Black	.03	.10	....	....	.53	....	....	.87	....	.55	.64	....	....	....	....	....	....	....	....	.59	....	....	....	.20	.60	....	....	....	.20	.79	....	5.10
Annapolis[3].....7 mi. W	....do	....	.33	....	....	.05	.67	....	.45	.89	.24	1.38	....	....	....	....	.16	....	....	....	.69	.06	....	....	.70	1.90	....	....	....	.61	.65	....	8.78
Arcadia[2]	St. Francis	.36	....	....	....	....	.61	....	....	.60	.15	1.39	....	....	....	....	.57	....	....	....	.75	.30	....	....	.83	2.55	T	....	....	T.	1.47	....	9.58
Belleview[2]	Meramec	.03	.15	....	....	.01	.51	....	....	.44	.04	1.34	....	....	....	T.	.41	T.	....	....	.77	.37	....	....	.96	2.63	.05	....	....	.37	.35	....	8.43
Bernie[2]	St. Francis	....	1.11	....	....	....	.21	....	.36	1.29	.10	1.49	....	....	....	....	....	....	....	....	.08	....	....	....	.57	.56	T.	....	....	.22	1.33	....	7.32
Birch Tree[2]...½ mile E	Black	....	*.14*	....	....	....	.58	....	....	.78	.19	1.20	....	....	....	....	.11	....	....	....	.73	....	....	....	.48	1.30	....	....	....	.19	.17	....	§5.87
Black...... 9 miles NW	....do	.56	....	....	....	.63	....	....	.49	....	.95	.20	....	....	....	....	.15	....	....	.06	.93	....	....	....	2.28	.98	....	....	....	.43	.38	....	8.04
Bloomfield[2]	St. Francis	....	.37	....	....	....	.21	....	.12	.23	....	1.97	....	....	....	....	.02	....	....	....	.32	.12	....	....	.54	.45	.07	....	....	.09	.59	....	5.10
Bunker[2]... 4 miles NW	Black	....	....	....	.28	....	....	....	.45	T.	.47	1.00	....	....	....	....	....	T.	....	....	.85	....	....	....	.95	.85	.05	....	....	.20	.15	....	5.25
Campbell	St. Francis	.65	.61	....	.04	.25	....	....	1.40	....	.05	1.50	....	.01	....	.21	....	....	....	....	.34	....	....	....	.35	.18	....	....	....	.10	.18	....	5.87
Cape Girardeau....(A)	Mississippi	.43	.50	....	.04	.30	....	....	2.03	....	T.	1.43	....	....	....	.27	.17	....	....	....	.45	....	....	....	.40	.24	....	....	....	.03	.12	....	6.41
Cape Girardeau[2]...(B)	....do	....	1.02	....	T.	T.	....	....	.51	1.63	.02	1.33	....	....	....	....	.58	....	....	....	.37	.24	....	....	.40	.27	.04	....	....	.02	.12	....	6.55
Caruthersville[2]	....do	....	.42	....	.10	T.	.23	....	.50	1.04	T.	2.30	.06	....	T.	.10	....	....	....	....	.20	.07	T.	....	....	.57	....	....	....	....	.41	....	6.00
Centerville(1)[2]	Black	....	.26	....	....	....	.47	....	.35	.44	.18	1.12	....	....	....	....	.76	....	....	....	.82	.05	....	....	.81	3.15	*T.*	....	....	.53	.49	....	9.43
Centerville(2)[2]	....do	....	.25	....	T.	T.	.43	....	.07	.64	.12	1.25	....	....	....	T.	.68	....	....	....	.74	.13	....	....	.52	2.88	.01	....	....	.32	.78	....	8.82
Clearwater Dam[2]	....do	....	.06	....	....	.01	.62	....	.40	.93	.07	1.47	....	....	....	....	T.	....	....	....	.89	....	....	....	.27	.64	*T.*	....	....	.10	.45	....	5.91
Cook Station[2]	Meramec	.20	.22	....	....	.12	....	....	*	.52	.08	.82	....	....	....	....	.25	*T.*	....	....	2.20	....	....	....	1.30	2.55	....	....	....	....	.52	....	8.78
Crane Mountain[2]	St. Francis	....	.27	....	....	.03	.44	....	.45	.33	.14	1.29	....	....	....	....	.44	....	....	....	.64	.01	....	....	.47	2.31	....	....	....	.75	.14	....	7.71
Crystal City	Mississippi	.18	....	....	.18	.50	....	....	.14	....	.49	.39	....	....	....	.08	.26	....	....	.08	.76	....	....	....	1.20	1.47	....	....	....	.44	....	....	6.17
Cuba	Meramec	.04	....	T.	.14	.21	....	....	.04	....	1.52	.08	....	....	....	.09	.10	....	....	.50	1.44	T.	....	....	1.26	1.77	....	....	....	.02	.10	....	7.31
Deering[2]	St. Francis	....	.81	....	.10	....	.22	....	.60	1.12	....	1.95	....	....	....	....	.58	....	....	....	.32	....	....	....	T.	.50	....	....	....	.14	.32	....	6.66
De Soto	Mississippi	.28	....	....	.15	.59	....	....	.12	....	.52	.30	....	....	....	.05	.18	....	....	.47	.90	....	....	....	1.32	1.46	....	....	....	.37	.03	....	6.74
Dexter[2]	St. Francis	....	.37	....	....	.04	.21	....	T.	1.08	....	1.79	....	....	....	....	.04	....	....	....	.43	....	....	....	.12	.75	.04	....	....	T.	.45	....	5.32
Doniphan(1)	Black	*	.25	....	.12	.65	....	....	.69	....	....	....	....	....	....	....	....	....	....	....	.50	....	....	....	.19	.40	....	....	....	.10	.32	....	3.22
Doniphan(2)[2]	....do	....	.43	....	....	....	.51	....	.20	.90	....	1.25	....	....	....	....	....	....	....	....	.35	....	....	....	.20	*	.86	....	....	.08	.31	....	5.09
East End[2]	Meramec	*.03*	*.31*	....	....	*.42*	....	....	....	*.48*	*.04*	*1.10*	....	....	....	....	*.27*	....	....	....	.66	.29	....	....	.93	2.54	.07	....	....	.10	.47	....	§7.71
Eastwood Lookout[2]	Black	....	.40	....	....	*	1.14	....	*	1.18	.04	2.10	....	....	....	....	.04	....	....	....	1.30	....	....	....	*	1.08	.60	....	....	.66	.34	....	8.88
Ellington[2]	....do	....	.29	....	....	....	.57	....	.90	.71	.20	1.48	....	....	....	....	.20	....	....	....	.54	.04	....	....	.50	1.59	.02	....	....	.20	.25	....	7.49
Ellsinore	....do	.20	....	....	*	.47	....	....	.53	....	....	1.50	....	....	....	....	....	....	....	....	.45	....	....	....	.60	....	.31	....	....	.01	.25	....	4.32
Farmington[2]	St. Francis	.02	.44	....	T.	.05	.61	....	....	.43	.06	1.43	....	....	....	....	.71	....	....	....	.63	.36	....	....	.88	2.53	.09	....	....	.03	.36	....	8.63
Fisk[2]	....do	....	.44	....	....	....	.54	....	....	.89	.08	1.78	....	....	....	....	.08	....	....	....	.32	....	....	....	.41	.33	....	....	....	T.	.36	....	5.23
Fredericktown[2]	....do	....	.35	....	....	.03	.57	....	.12	.76	.09	1.50	....	....	....	....	.38	....	....	....	.58	....	....	....	.62	2.41	T.	....	....	.10	1.48	....	8.99
Gerald	Meramec	....	....	....	.19	.23	....	....	....	....	1.51	.03	....	....	....	.09	.29	....	....	.21	.45	....	....	....	.78	2.51	....	....	....	.01	.61	....	6.91
Greenville(1)	St. Francis	.09	.03	....	.05	.56	....	....	.92	....	.47	.77	....	....	....	....	.19	....	....	....	.53	....	....	....	....	.88	....	....	....	.02	.10	....	4.61
Greenville[2](2)	....do	....	.11	....	....	.02	.60	....	.23	.86	.08	1.17	....	....	....	....	.18	....	....	....	.62	.04	....	....	.50	.42	T.	....	....	.03	.14	....	5.00
High Lookout	Black	....	.07	....	T.	.50	....	....	.77	.38	.52	.31	....	....	....	....	....	.51	....	....	....	....	....	....	.71	.62	....	....	....	.05	.50	....	4.94
Jackson	Mississippi	.58	.13	....	.11	.44	....	....	1.40	....	.06	1.49	....	T.	....	.23	.08	....	....	....	.59	T.	....	....	.48	.38	....	....	....	.06	.22	....	6.25
Jerome[2]	Gasconade	.18	.08	....	....	.28	....	....	.06	....	.46	1.04	....	....	....	....	.24	....	....	....	.76	.24	....	....	.92	2.74	.08	....	....	....	....	....	7.08
Koshkonong[2]	Black	....	.32	....	....	....	.63	....	.60	.87	.05	.79	....	....	....	....	....	....	....	....	.40	....	....	....	.19	.64	*T.*	....	....	.31	.44	....	5.24
Leeper[2]	....do	....	.07	....	....	.01	.52	....	.18	.88	.10	1.20	....	....	....	....	.04	....	....	....	.50	.02	....	....	.41	.65	.02	T.	....	.04	.28	....	4.92
Licking[2]	Gasconade	.41	....	....	....	....	....	....	.20	.44	.15	1.89	....	....	....	....	.35	....	....	....	.90	....	....	....	1.05	3.10	....	....	....	....	.37	....	8.86
Macedonia Lookout[2]	Black	....	.29	....	....	....	.46	....	*	.68	....	1.31	....	....	....	....	....	....	....	....	.59	....	....	....	.35	.33	*T.*	....	....	.10	.29	....	4.40
Marble Hill	Mississippi	.39	.08	....	.10	.30	....	....	.60	....	....	.26	....	....	....	.21	.35	....	....	....	1.34	....	....	....	.50	.41	....	....	....	.10	.10	....	4.74
Morehouse	....do	.09	.47	....	.08	.17	....	....	1.29	....	....	1.21	....	....	....	.15	....	....	....	....	.39	....	....	....	.60	.22	....	....	....	.29	.52	....	5.48
Moselle[2]	Meramec	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
New Madrid[2]	Mississippi	....	.98	....	T.	T.	.30	....	.20	2.05	.01	1.43	....	....	T.	....	.78	....	....	....	.37	.11	....	....	.06	.60	T.	....	....	T.	.27	....	7.16
Oates Tower[2]	Black	T.	.13	....	T.	....	.51	....	T.	.40	.01	.64	....	....	....	.01	.42	*T.*	....	....	.63	.05	....	....	.77	*	2.61	....	....	.26	.45	....	6.89
Owensville[2]	Gasconade	.25	.10	....	.15	.11	.23	....	....	....	.40	1.01	....	....	....	....	.63	....	....	.27	*	.87	....	....	.70	3.07	....	....	....	....	.95	....	8.74
Pacific[2]	Meramec	*.17*	*.07*	....	1.24	....	*.26*	....	....	....	*	1.18	....	....	....	....	*.23*	....	....	....	.82	.08	.50	....	.58	2.10	....	....	....	T.	.52	....	§7.75
Parma[2]	St. Francis	....	.69	....	....	.05	.18	....	.24	1.08	.03	1.61	....	....	....	....	.25	....	....	....	.32	....	....	....	.49	.37	....	....	....	.14	.34	....	5.79
Perryville	Mississippi	....	....	....	....	1.34	....	....	.77	....	.59	.22	....	....	....	.15	....	....	....	*	1.11	....	....	....	*	3.05	....	....	....	.20	1.00	....	8.43
Poplar Bluff[2]	Black	....	.34	....	T.	T.	.48	....	.23	.87	T.	1.39	....	....	....	....	.68	....	....	....	.58	.05	....	....	.30	.39	T.	....	....	.05	.16	....	5.52
Puxico[2]	St. Francis	....	.54	....	T.	.01	.45	....	.01	.86	.07	1.51	....	....	....	....	.06	....	....	....	.62	.20	....	....	.39	.44	.02	....	....	.03	.12	....	5.33
Qulin[2]	....do	....	.75	....	.01	.02	.23	....	.60	1.12	.12	1.97	....	....	T.	....	.03	....	....	....	.24	T	....	....	.15	.53	T.	....	....	.06	.81	....	6.64
Reynolds[3]	Black	....	.21	....	....	.57	....	....	.40	.59	.12	1.32	....	....	....	....	.25	....	....	....	.70	.11	....	....	.62	2.70	.02	....	....	.24	.63	....	8.48
Richwoods[3]	Meramec	.20	.10	....	.22	....	.35	....	....	....	.25	1.05	....	....	....	....	.20	....	....	....	.50	.60	....	....	.65	2.20	.01	....	....	....	.12	....	6.45
Rolla[2]	....do	.18	....	....	.10	.17	.05	....	.05	....	.30	.90	....	....	....	....	.40	....	....	.04	1.25	T.	....	....	.88	2.55	....	....	....	....	.02	....	6.89
Round Spring[2]	Black	....	.25	....	....	....	.47	....	....	.84	.09	.74	....	....	....	....	....	....	....	....	.51	....	....	....	.84	2.64	....	....	....	....	.31	....	6.69

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Stations	Drainage-basins	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	..	Total
Southeastern Division —	*Concluded*																																
St. Louis:																																	
City Office[1], [5]	Mississippi	.05	....	.30	.35	.43	....	....	.02	.11	.77	T.	....	....	....	.22	T.	T.	....	.07	.31	....	....	.22	1.05	1.18	....	....	....	1.10	....	....	6.18
Airport[3], [5]	Missouri	.07	....	.18	.28	.26	....	....	T.	.11	.81	.01	....	....	....	.60	.02	....	....	.10	.43	....	....	.34	.98	1.01	....	....	....	2.05	....	....	7.25
St. Louis Univ.[1], [5]	Mississippi	.08	T.	.33	.24	.33	....	....	.01	.15	.94	....	....	....	....	.16	.01	....	....	.06	.25	....	....	.29	1.19	1.24	....	....	....	.88	T.	....	6.16
Washington Univ.[2]	....do	.14	.07	....	.77	....	.43	....	....	....	.21	.95	....	....	....	.01	.43	....	....	.07	.30	.01	....	....	.40	1.98	.04	....	....	.05	1.28	....	7.14
Salem	Meramec	.26	....	....	T.	.38	....	....	.28	.02	1.02	.08	....	....	....	.21	.17	....	....	....	1.40	....	....	....	2.41	1.21	....	....	....	.23	.35	....	8.02
Sikeston[3]	Mississippi	....	.74	....	T.	.04	.27	....	.24	1.04	....	1.66	....	....	*T.*	....	.35	....	....	....	.35	T.	....	....	.44	.33	T.	....	....	.52	.42	....	6.40
Steelville[2] ...2½ mi. NE	Meramec	.25	.10	....	.01	.20	....	....	....	.01	.19	.85	....	....	....	....	.28	....	....	.31	*	2.00	....	....	.82	2.25	*T.*	....	....	T.	.04	....	7.31
Sullivan[2]	....do	.27	.09	....	.23	.09	.41	....	T.	.03	.26	1.04	....	....	....	.01	.25	T.	....	.20	.75	.20	....	....	.78	2.32	.06	....	....	.01	.29	....	7.29
Summersville[2]	Black	T.	.19	....	T.	T.	....	.25	.53	....	.08	.75	....	....	....	....	....	....	....	....	.96	.04	....	....	.75	1.93	....	....	....	.40	.07	....	5.95
Union[2] ......1½ mi. SE	Meramec	.14	.06	....	.17	.01	....	....	....	....	.34	.78	....	....	....	....	.21	....	....	.03	.59	.04	....	....	.22	1.70	.20	....	....	....	.63	....	5.12
Valley Park[2]	....do	.10	.05	....	.72	....	.28	....	....	....	.23	.90	....	....	....	....	.83	....	....	....	.46	T.	....	....	.49	2.11	.07	....	....	....	.63	....	6.87
Van Buren[2]	Black	....	....	....	....	T.	.39	....	.24	.65	....	1.13	....	....	....	....	....	....	....	....	.84	....	....	....	.44	.74	....	....	....	.28	.49	....	5.20
Vichy[6] .....2 miles NW	Meramec	.10	....	.09	....	.18	....	....	T.	.35	1.22	....	....	....	....	.13	.05	....	....	.49	.73	T.	....	.72	2.41	1.02	....	....	....	T.	....	....	7.49
Wappapello Dam[3]	St. Francis	....	.48	....	T.	T.	.42	....	.17	.73	.10	1.35	....	....	....	....	.29	....	....	....	.46	.22	....	....	.43	.33	T.	....	....	.06	.12	....	5.16
Webster Groves	Mississippi	.06	....	....	.59	.44	....	....	T.	....	1.08	.11	....	....	....	.13	.36	....	....	.07	.27	T.	....	....	.65	1.95	....	....	....	.28	.29	....	6.28
Weingarten	....do	.50	....	....	....	.46	....	....	.45	....	.65	.65	....	....	....	.10	.60	....	....	.20	1.00	....	....	....	2.60	1.10	....	....	....	.32	....	....	8.63
West Plains[3]	Black	.25	....	....	T.	.65	....	....	.82	.48	1.25	....	....	....	....	T.	....	....	....	.12	.47	....	....	....	.71	.62	....	....	T.	.33	.05	....	5.75
Williamsville[2]	....do	....	.82	....	....	.02	.66	....	....	1.06	....	1.19	....	....	....	....	.96	....	....	....	1.62	....	....	....	.74	.37	.04	....	....	....	.36	....	7.84
Willow Springs[2] 500 ft E	White	....	*T.*	....	....	.10	.49	....	.28	.79	.13	1.26	....	....	....	....	....	....	....	....	.80	....	....	....	1.23	1.55	.05	....	....	.22	.17	....	7.07
Winona Ranger Sta.[2]	Black	....	.20	....	....	.40	.08	....	.63	.55	.50	.65	....	....	....	....	....	....	....	....	1.05	....	....	....	.55	1.00	....	....	....	.30	.31	....	6.22
Zalma[2]	Mississippi	....	.29	....	.04	.09	.47	....	.34	1.22	.16	1.42	....	....	....	....	.32	....	....	....	1.02	.05	....	....	.45	.36	.02	....	....	.02	.20	....	6.47
Cairo, Ill.[1], [5]	....do	.82	.02	....	.05	.35	....	....	1.07	T.	1.74	.08	....	T.	....	.55	T.	....	....	....	.45	T.	....	....	.69	.19	....	....	....	.18	.11	....	6.30
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....

Except as otherwise indicated, amounts are for 24 hours ending late in afternoon. [1] Midnight to midnight. [2] Measured in the morning; for the preceding 24 hours. [3] Data for 24 hours ending 12:30 A. M. (C. S. T.) of following day. [5] Recording gage. T. Trace or 0.005 inch or less. * Included in next measurement. // Wind-shield on gage. Italics data interpolated. § Partly interpolated. (A) Record from cooperative station gage. (B) Record from river station gage. (C) Airport.
‡ Received too late to be included in means and extremes.

Daily Evaporation (inches), Mean Temperature (F°), and Wind Movement (miles) for April 1947

(See precipitation data in daily precipitation table)

Station	Data	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	..	Monthly
Columbia (Univ. of Mo. Hort. Exp. Sta. 9 mi. WNW.)	Evaporation	.016	.029	.010	.051	.317	.182	.110	.096	.126	.078	.114	.060	.136	.136	.113	.102	.237	.336	.103	.077	.092	.161	.214	.217	.159	.281	.192	.222	.185	.323	....	4.475
	Mean temperature	46	43	43	62	64	49	44	53	48	56	50	45	50	53	56	44	48	60	62	46	52	61	68	58	51	56	61	60	70	68	..	54.2
	Wind movement	27	32	39	126	225	273	34	59	63	154	152	59	82	16	33	187	141	168	54	121	30	93	161	110	104	91	113	53	146	94	..	3,040
Lakeside (Osage Dam)	Evaporation	.015	.020	.102	.096	....	.346	.154	.202	.089	.099	.132	.133	.102	.118	.189	.028	.100	.220	.310	.173	.022	.160	.211	.209	....	.014	.217	.207	.254	.155	....	4.368
	Mean temperature	48	46	50	62	66	54	48	53	52	56	56	46	53	54	50	44	50	61	60	50	54	61	66	46	52	55	63	63	68	69	..	55.2
	Wind movement	34	10	59	77	130	256	57	53	17	106	109	58	66	34	36	96	76	95	94	68	45	61	125	82	80	45	69	47	126	78	..	2,289
St. Louis (Washington University)	Evaporation	.018	.120	....	.052	.062	.188	.176	.099	.024	.147	.118	.102	.145	.094	.144	.044	.026	.170	.263	.195	.022	.118	.071	.159	.076	.049	.188	.207	.117	.206	....	3.517
	Mean temperature	52	44	50	61	64	56	48	46	50	62	54	48	48	54	54	43	48	61	65	46	51	52	67	46	51	58	65	56	62	70	..	54.4
	Wind movement	30	26	48	63	97	111	73	41	22	65	81	46	94	53	37	87	51	57	89	51	118	50	67	101	92	59	29	64	45	64	..	1,911

Observations taken at 8:00 a. m. except at 5:00 p. m. at Columbia. For Lakeside and St. Louis (Washington University) descriptions see April 1932 and August 1938 reports, respectively. * Included in next measurement.

(Continued from page 27)

Louis County, Worth; 30th at Harrisonville, Warrensburg, Koshkonong. Moderate, 1st at Fayette and Koshkonong; 4th at Butler; 9th at Tarkio; 10th at Seymour and Cassville; 15th at Warrenton and Farmington; 19th at Cuba; 29th at Grant City, Maryville, Saverton, Cassville, Lockwood, St. Louis Airport. Heavy, 9th at High Lookout; 19th at DeSoto; 23d at Neosho, with slight damage; 29th at Fulton, northeast of Maryville, New Florence, Worth, Ashland. (See special storm table).

Sleet.—15th

Tornadoes.—5th, 29th. (See special storm table).

Windstorms.—4th, 5th, 20th, 29th. (See special storm table).

Daily Temperatures for April 1947

Stations		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	..	Mean
Northern Division																																	
Brunswick /	Maximum..	57	50	54	75	66	58	55	62	59	62	53	49	60	70	56	50	66	73	56	52	64	72	76	50	63	72	75	74	80	84	..	63.1
	Minimum ..	40	36	37	38	54	39	32	33	39	38	44	40	40	39	43	36	37	37	48	39	36	36	52	42	41	43	45	49	48	55	..	41.2
Chillicothe Airport....	Maximum..	50	51	49	72	64	55	63	61	56	61	52	48	61	69	58	49	65	72	64	53	63	73	74	52	62	70	73	76	79	83	..	62.3
	Minimum ..	35	35	36	46	43	34	30	39	35	46	41	38	41	37	35	33	35	40	38	36	33	49	45	38	43	42	51	46	54	50	..	40.1
Columbia	Maximum..	56	48	54	81	72	58	58	62	61	65	55	49	59	71	54	50	65	78	67	45	66	76	81	48	61	71	74	76	82	83	..	64.2
	Minimum ..	39	33	38	52	48	43	35	45	40	53	42	40	43	37	44	36	35	47	43	39	41	49	47	43	44	41	50	48	60	56	..	43.7
Fayette................	Maximum..	67	50	49	78	68	57	56	61	60	60	58	50	60	70	65	51	66	76	70	51	65	71	78	51	61	70	74	75	80	82	..	64.0
	Minimum ..	39	35	37	47	48	39	31	44	37	51	43	39	42	36	47	35	34	43	50	37	38	49	50	42	42	42	49	47	59	54	..	42.9
Grant City	Maximum..	63	50	48	65	63	51	50	55	52	61	56	50	59	66	60	48	66	..	*70*	58	68	72	70	53	62	70	70	75	71	81	..	^{a}61.0
	Minimum ..	35	34	35	42	36	27	26	36	40	45	41	40	37	40	32	28	33	..	40	35	35	50	50	50	41	42	50	60	51	55	..	^{a}40.2
Hannibal	Maximum..	57	50	50	75	69	56	53	58	58	63	57	50	57	67	58	59	64	75	65	43	62	64	80	52	61	71	70	70	78	80	..	62.4
	Minimum ..	41	37	39	45	46	39	31	43	38	61	43	38	38	39	43	33	37	39	41	38	36	47	44	42	43	44	49	41	57	53	..	41.8
Kansas City Airport..	Maximum..	57	57	56	71	63	59	53	61	56	65	57	47	57	70	58	48	70	74	66	57	68	77	73	47	63	70	75	73	81	85	..	63.8
	Minimum ..	43	37	41	54	45	39	35	44	40	45	44	42	42	40	36	34	40	51	40	38	44	54	47	41	43	47	53	54	58	67	..	44.3
Kirksville	Maximum..	53	53	48	71	65	53	51	61	57	59	59	58	61	68	63	50	65	72	65	64	65	71	78	52	65	74	72	75	78	83	..	63.3
	Minimum ..	37	35	36	44	46	35	30	41	37	48	41	38	35	38	45	33	36	37	40	35	32	49	50	38	43	43	51	43	55	51	..	40.6
Lathrop	Maximum..	54	53	51	71	62	56	53	60	55	61	55	51	59	71	62	49	68	72	68	67	65	75	73	48	63	71	75	75	79	82	..	63.1
	Minimum ..	40	33	39	45	44	34	30	42	*35*	50	41	37	40	37	36	31	34	45	41	35	36	51	47	36	41	43	48	51	55	52	..	41.0
Louisiana	Maximum..	59	56	52	78	74	54	56	58	60	70	60	54	58	69	62	53	64	77	72	56	64	66	82	74	61	69	72	70	78	81	..	65.3
	Minimum ..	42	38	40	46	54	43	33	44	33	54	45	40	39	33	41	36	32	36	61	41	40	48	54	44	44	39	44	41	58	57	..	43.0
Macon /................	Maximum..	57	52	53	74	66	55	54	60	61	60	48	49	58	67	59	50	65	74	50	49	64	70	78	50	64	70	71	73	79	81	..	62.0
	Minimum ..	39	34	35	42	52	37	29	32	35	39	42	37	38	37	44	33	36	39	43	35	36	40	49	39	43	44	49	43	47	52	..	40.0
Maryville	Maximum..	56	52	48	64	63	52	49	55	53	64	61	52	57	66	62	49	67	73	68	59	63	74	71	53	63	73	71	76	72	82	..	62.3
	Minimum ..	35	34	39	44	40	32	27	37	36	47	39	38	38	37	32	27	31	43	36	35	38	51	45	35	42	39	49	50	54	49	..	39.3
Mexico /...............	Maximum..	54	50	53	78	69	67	56	62	61	63	51	51	57	70	*54*	50	64	76	62	43	64	71	80	48	60	69	73	73	80	79	..	62.6
	Minimum ..	37	35	38	41	52	41	31	34	37	39	43	38	40	32	39	34	34	40	50	39	38	41	47	44	42	44	44	44	52	55	..	40.8
Moberly /	Maximum..	59	51	56	76	66	56	54	61	60	59	48	59	59	59	54	59	64	76	49	46	62	72	77	48	61	69	72	72	80	81	..	62.2
	Minimum ..	39	33	35	44	55	38	30	34	36	45	42	41	36	86	42	34	35	41	42	34	37	43	51	41	42	41	43	45	53	53	..	40.7
Oregon	Maximum..	60	55	50	64	62	55	52	57	53	60	55	53	49	70	66	49	70	73	65	61	66	77	75	53	63	72	75	75	79	83	..	63.2
	Minimum ..	37	35	39	44	42	33	30	39	39	46	40	38	38	38	35	28	36	48	37	36	42	53	46	36	42	45	51	54	55	52	..	41.1
St. Charles /	Maximum..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
	Minimum ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
St. Joseph	Maximum..	57	55	51	69	62	54	53	58	54	65	55	47	60	70	59	48	68	72	65	61	66	77	70	50	64	70	75	75	80	85	..	63.2
	Minimum ..	40	39	41	51	42	36	32	41	39	44	43	41	41	40	34	32	38	51	38	37	41	53	43	38	44	45	51	55	55	55	..	42.7
Trenton	Maximum..	52	56	50	72	68	55	55	55	60	62	55	52	63	68	62	50	68	73	70	55	63	73	74	65	68	72	76	73	79	85	..	64.3
	Minimum ..	38	36	39	42	50	36	30	36	40	50	41	40	41	39	50	33	37	49	44	36	35	54	58	38	44	56	56	58	58	53	..	43.9
Unionville /	Maximum..	52	52	50	69	63	50	53	58	58	59	49	48	60	64	63	48	64	71	43	52	64	69	74	53	63	71	68	74	75	80	..	60.6
	Minimum ..	36	35	36	40	48	33	28	32	33	37	40	34	38	37	40	32	32	35	40	34	31	33	48	35	41	40	48	44	48	51	..	38.1
Warrenton	Maximum..	60	60	55	79	72	67	57	60	61	75	59	55	55	71	66	53	65	79	75	63	63	71	84	75	59	71	75	72	78	82	..	67.2
	Minimum ..	40	34	36	47	55	43	30	41	30	50	44	37	39	30	41	35	30	43	50	39	38	45	57	43	42	41	46	40	56	55	..	41.9
Keokuk, Iowa...........	Maximum..	55	49	48	71	68	47	51	58	55	62	56	49	56	63	61	47	62	71	46	48	62	64	78	53	62	70	64	70	76	83	..	60.2
	Minimum ..	44	41	42	46	45	38	35	43	42	50	44	38	37	43	38	32	37	38	38	35	33	48	44	41	45	46	45	38	66	54	..	41.9
Southwestern Division																																	
Clinton................	Maximum..	65	59	56	82	67	60	60	65	63	61	62	46	60	70	55	52	68	77	70	51	70	80	79	47	62	71	77	77	82	85	..	66.0
	Minimum ..	43	37	42	56	47	42	36	46	40	49	45	43	43	41	39	37	35	50	48	39	46	54	47	43	43	43	48	54	61	55	..	45.1
Eldon	Maximum..	58	59	62	83	80	63	65	65	66	70	63	56	60	73	75	54	67	80	79	72	68	75	85	75	60	74	76	77	81	82	..	70.1
	Minimum ..	*39*	37	38	52	53	43	34	42	42	38	44	40	40	37	49	36	35	43	49	39	42	50	59	43	42	45	46	48	58	56	..	44.0
Harrisonville /	Maximum..	66	59	62	76	64	59	57	65	60	62	62	45	69	69	56	52	68	75	65	56	67	78	77	45	64	70	76	72	81	84	..	65.0
	Minimum ..	40	35	37	42	53	38	32	36	39	42	42	41	39	40	48	33	33	40	51	37	37	44	55	40	41	43	48	52	58	52	..	42.3
Jefferson City	Maximum..	59	54	58	81	75	60	59	61	62	69	59	52	59	71	65	53	66	78	72	*69*	65	76	83	64	59	70	74	76	82	83	..	66.8
	Minimum ..	36	32	37	50	54	43	33	45	38	50	44	36	41	33	47	36	32	42	50	39	41	49	69	43	43	37	48	47	59	56	..	43.3
Joplin Airport.........	Maximum..	68	65	71	81	73	63	68	65	68	66	65	53	57	70	64	50	64	76	73	48	76	78	78	48	57	67	76	72	81	85	..	67.5
	Minimum ..	51	43	48	61	53	43	42	47	45	50	42	44	43	43	43	36	35	50	48	41	42	56	48	44	43	41	48	53	61	57	..	46.7
Lamar /................	Maximum..	70	63	65	81	62	64	67	67	65	67	66	50	61	71	53	52	65	75	72	48	70	78	80	48	56	68	76	73	80	83	..	66.5
	Minimum ..	45	38	40	45	58	41	41	41	44	43	45	43	42	43	44	36	33	34	47	40	39	43	54	45	42	38	39	51	54	53	..	43.4
Lebanon /	Maximum..	63	63	58	79	68	63	67	64	65	70	62	59	61	72	63	49	63	76	74	44	68	74	84	45	56	68	77	72	80	81	..	66.3
	Minimum ..	45	34	35	39	57	42	35	36	37	40	43	40	41	37	40	35	32	36	50	43	39	41	50	42	42	40	44	50	53	57	..	41.8
Lexington /	Maximum..	59	57	59	69	56	58	53	65	57	64	55	46	56	64	54	45	68	74	59	55	65	78	72	45	64	70	73	73	80	84	..	62.6
	Minimum ..	40	36	37	41	52	38	32	38	38	42	44	42	42	40	47	36	36	43	54	38	37	42	51	40	42	44	50	52	52	56	..	42.7
Marshall	Maximum..	60	54	49	77	65	66	55	60	60	61	62	53	60	67	67	53	65	79	72	67	64	70	75	60	60	74	68	74	80	79	..	65.2
	Minimum ..	42	35	38	45	37	39	33	44	39	51	43	39	42	39	48	35	35	48	49	32	47	50	56	38	40	56	50	47	61	59	..	43.9
Mountain Grove	Maximum..	64	67	64	75	71	67	68	68	66	71	63	67	64	72	70	62	63	75	75	72	65	69	82	78	53	68	77	76	78	82	..	69.7
	Minimum ..	50	40	38	52	55	43	40	45	39	50	44	41	41	40	53	35	32	41	50	40	39	45	53	44	43	39	47	52	54	56	..	44.7
Neosho	Maximum..	67	67	70	80	74	66	71	71	68	67	66	66	59	71	71	60	65	75	75	65	76	77	81	68	58	68	76	74	82	86	..	70.7
	Minimum ..	48	35	49	62	55	42	40	49	46	66	43	47	45	41	54	37	30	47	62	41	43	54	64	46	44	34	41	48	62	54	..	47.3
Nevada	Maximum..	67	66	61	81	74	64	65	68	64	64	66	61	65	71	68	55	68	75	70	64	70	80	76	53	60	70	78	74	82	85	..	68.8
	Minimum ..	43	40	43	56	54	40	39	46	42	52	45	43	41	43	49	36	33	49	49	39	45	55	53	43	43	39	46	53	61	53	..	45.8
Sedalia................	Maximum..	59	59	50	80	76	58	57	61	60	63	61	55	59	68	67	52	66	76	73	55	67	73	77	56	60	68	75	76	80	83	..	65.7
	Minimum ..	45	34	39	47	51	40	33	45	41	50	43	40	42	36	50	35	35	45	53	38	42	51	56	41	41	44	49	51	60	54	..	44.4
Springfield....4 mi. NW	Maximum..	62	63	60	80	70	62	66	63	66	67	63	59	60	68	64	48	61	75	75	62	68	76	87	48	55	67	75	69	81	83	..	66.8
	Minimum ..	47	36	42	55	49	42	39	46	42	51	45	45	43	40	46	35	31	46	54	40	41	51	48	43	44	37	44	53	56	58	..	45.0
Warrensburg..........	Maximum..	62	60	52	77	65	60	58	64	63	62	61	58	61	71	70	54	68	74	72	53	69	76	76	53	61	..	76	76	81	85	..	^{a}66.1
	Minimum ..	46	37	40	45	50	40	34	44	40	50	43	41	42	42	48	35	35	46	51	38	42	52	53	42	42	44	..	52	60	54	..	^{a}44.4
Southeastern Division																																	
Arcadia /	Maximum..	60	66	65	70	70	73	68	60	65	78	66	66	64	74	70	48	65	77	80	58	65	68	84	50	69	73	83	70	76	86	..	68.9
	Minimum ..	36	40	33	36	56	49	37	39	39	42	53	36	39	38	39	46	27	31	44	52	38	38	46	44	44	32	34	44	45	54	..	41.0
Birch Tree.... ½ mile E	Maximum..	68	..	..	71	72	71	72	70	68	70	65	69	67	75	72	61	63	75	76	72	68	69	82	78	51	70	78	77	76	83	..	^{b}71.0
	Minimum ..	55	..	..	55	55	49	39	40	36	55	47	40	43	40	47	39	25	41	50	42	40	45	56	46	45	32	37	50	55	50	..	^{b}44.8
Caruthersville.........	Maximum..	71	69	70	67	81	75	75	68	62	84	79	70	68	73	73	70	61	72	79	78	57	69	81	80	61	67	79	79	79	82	..	72.6
	Minimum ..	55	52	45	55	57	48	48	50	48	55	61	49	49	51	56	48	36	41	51	55	47	48	57	56	55	44	47	48	56	59	..	50.9
Crystal City	Maximum..	63	60	63	78	74	68	63	60	63	80	62	62	60	73	68	55	65	79	80	79	65	72	86	82	58	74	78	73	76	83	..	70.1
	Minimum ..	45	37	43	50	57	50	37	44	40	53	50	37	42	38	44	39	30	45	53	42	40	47	59	46	46	37	46	44	58	65	..	45.5
Doniphan	Maximum..	71	76	68	73	75	77	73	63	66	82	77	69	67	77	78	70	67	75	80	75	69	69	84	71	55	74	83	75	79	87	..	73.5
	Minimum ..	53	50	39	57	57	45	37	48	41	55	54	42	45	42	51	46	27	40	53	48	43	43	56	51	49	33	39	53	57	57	..	47.0
Farmington	Maximum..	60	61	64	72	70	70	65	57	64	78	64	61	59	69	69	55	63	75	77	71	62	67	82	75	54	70	78	71	76	83	..	68.1
	Minimum ..	51	41	40	53	55	50	40	42	41	53	47	38	39	40	45	38	30	44	51	40	38	43	52	44	44	35	45	43	55	62	..	44.6
Jackson	Maximum..	68	66	67	64	76	75	72	65	68	82	70	66	63	75	76	62	64	73	77	72	59	66	81	79	53	70	79	77	77	85	..	70.9
	Minimum ..	53	46	40	54	55	50	40	46	46	56	56	42	42	42	45	42	29	44	51	45	40	44	55	48	48	34	40	46	57	62	..	46.6
Poplar Bluff...........	Maximum..	68	74	66	71	76	76	72	65	65	82	70	70	65	75	77	62	65	73	79	72	65	66	82	73	54	71	78	72	78	86	..	71.6
	Minimum ..	52	47	41	54	64	49	42	48	46	56	58	44	44	46	52	46	32	42	50	50	42	45	54	52	49	37	45	52	57	61	..	48.6
Rolla /................	Maximum..	56	59	64	74	70	62	58	56	67	67	56	50	58	67	58	51	63	76	71	44	59	72	85	45	60	70	70	74	77	83	..	64.1
	Minimum ..	42	39	36	45	57	44	38	44	39	42	44	39	40	39	47	35	32	46	51	42	38	43	51	43	43	40	45	48	55	59	..	43.5
St. Louis............	Maximum..	60	51	57	73	72	63	58	51	61	77	59	56	59	70	61	51	62	77	74	55	65	65	85	60	55	70	72	67	75	80	..	64.7
	Minimum ..	51	43	43	50	53	50	41	45	41	54	47	44	40	44	51	37	38	51	55	39	39	48	59	45	44	45	51	44	58	64	..	47.1
Salem	Maximum..	60	63	62	76	71	67	66	62	65	75	63	64	61	72	69	44	64	76	78	60	66	72	85	77	54	71	79	72	78	84	..	68.5
	Minimum ..	41	39	35	59	55	46	35	43	34	53	45	36	41	38	43	36	29	44	46	40	38	46	55	44	44	34	45	48	55	59	..	43.5
Sikeston /	Maximum..	62	68	65	72	79	74	67	56	66	83	63	66	60	73	71	56	61	72	78	69	56	67	81	56	53	69	78	73	78	82	..	68.5
	Minimum ..	41	46	39	45	48	38	33	35	36	37	49	32	33	33	37	41	33	40	50	57	41	42	51	44	50	39	45	50	54	57	..	42.5
Union ....1½ mi. SE	Maximum..	59	58	61	79	73	66	60	58	63	77	61	67	55	70	67	55	63	78	79	67	65	72	90	..	..	72	75	72	80	84	..	^{b}68.4
	Minimum ..	38	33	39	50	58	47	34	43	32	51	46	36	42	33	42	37	30	43	52	41	40	46	57	..	..	37	48	44	58	61	..	^{b}43.5
West Plains	Maximum..	65	70	59	74	73	71	71	64	64	74	65	68	67	75	72	52	64	74	77	63	65	70	83	69	51	70	80	66	76	84	..	69.2
	Minimum ..	45	42	40	58	65	49	40	46	39	54	43	43	45	42	49	32	28	40	46	43	41	47	55	46	37	34	39	49	56	56	..	44.6
Cairo, Ill.	Maximum..	63	67	65	68	80	74	66	56	66	84	66	66	59	74	75	59	61	72	78	68	65	68	81	67	55	70	78	73	79	82	..	69.2
	Minimum ..	56	47	43	58	58	53	48	49	48	58	54	48	46	49	54	42	38	49	56	44	42	49	60	52	46	43	50	53	59	63	..	60.5

/ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs. ^{a}, ^{b}, ^{c}, etc., number of days missing, for example, ^{b} indicates two days missing. Italics data interpolated. § Partly interpolated.

Missouri Storms, April 1947

County	Date	Time	Nature of storm	Storm moved from	Width of path (miles)	Length of path (miles)	Loss of life	Property damage (estimated)	Remarks
Bates	4	8:30 p.m.	Wind and moderate hail	SW	2	Unknown	0	Minor	Storm occurred at Butler and vicinity. Several outbuildings and trees were blown down. Hailstones the size of marbles but no damage from hail.
Cedar	5	1:15 a.m. to 1:30 a.m.	Tornado	SW	200 yards	2	0	$200,000	Tornado occurred at El Dorado Springs. Many homes, several business buildings and a church were badly damaged; also several barns, outbuildings, many trees and wires were blown down and electric and telephone service disrupted. One horse and many chickens were killed. One person was slightly injured when cut by flying glass.
Callaway	5	4:30 a.m.	Tornado and high wind	SW	½ mile	2	0	$3,000	Storm struck Dixie and Ham's Prairie areas in southern portion of county resulting in damage to farm homes, outbuildings, roofs, trees, and power and telephone lines. High winds were general over the whole county throughout the day with minor damage reported at Fulton and Hatton.
Bates, Boone, Callaway, Shelby, St. Clair, St. Louis and St. Louis City	5	All day	High straight winds	SW and W	No definite path	....	0	Considerable but total damage unknown	Generally high winds prevailed over the State all day of the 5th with considerable damage reported in the counties named. At Appleton City, and vicinity, small outbuildings were blown over and roofs damaged; estimated damage $1,000. In Boone County, light damage was done at Columbia to trees, wires, plate glass windows, automobiles, chimneys, roofs, and billboards; at Sturgeon and Ashland communities, outbuildings, roofs and trees were damaged; also electric wires at latter place. In Shelby County, at Shelbina, and to the southwest of that place, roofs and outbuildings were damaged. At St. Louis and in St. Louis County, scattered damage was done to plate glass windows, trees, signs and buildings; three persons were slightly injured. See storm above for damage in Callaway County.
New Madrid	20	Early morning	High wind	SW	....	....	0	Not reported	Storm occurred in vicinity of Gideon and Risco, destroying two dwellings and damaging several farm buildings and electric lines. One person was injured.
Howell	20	Between midnight and 1:00 a.m.	Windstorm	SW	100 yards	100 yards	0	$1,050	Storm occurred at Mountain View, and vicinity, damaging three houses, a barn, and other outbuildings.
Worth	29	About 2:25 p.m.	Tornado and high wind	SW	¼ to ½	About 32 in Missouri	14	$772,000	Tornado struck first about 6 to 8 miles south and west of Worth, passed through the town of Worth demolishing the business district and demolished or damaged practically every home or other building in the town. Fourteen persons were killed and between 40 and 50 injured, many seriously, in Worth. Power and communication services were disrupted and trees uprooted or broken. Some livestock and poultry were killed. The storm continued in a northeasterly direction with damage to farm homes and outbuildings in the Denver and Hatfield communities. The storm crossed the Iowa line striking the town of Clio, Iowa. No crop damage resulted, as crops were just being planted. Light to heavy hail accompanied the tornado at Worth, and vicinity. One report stated the hailstones ranged in size from walnuts to baseballs. Many automobiles damaged by falling debris and wind.
Dent, Phelps and Crawford	29	Between 9:00 p.m. and 9:30 p.m.	Tornado and high wind	SW	Varied	About 10	1	$30,000	Storm struck near Lake Springs, in northwestern Dent County and moved northeastward into southeastern Phelps County and southwestern Crawford County, through the Hobson, Seaton and Winkler communities. Several farm homes, barns and other outbuildings were demolished, or badly damaged, and much valuable timber was blown down. Communication lines were disrupted and considerable livestock killed or strayed. One person was killed at Winkler, and five others were injured by the storm. Crop damage was light.
Nodaway	29	2:00 p.m.	Heavy hail	SW	1½	10	0	$12,500 to $18,000	Storm occurred at Maryville and extended 10 miles northeastward. Damage was mostly to roofs, windows and greenhouses. A number of lambs, small pigs and chickens were killed and young fruit trees badly damaged. Wheat and alfalfa were also damaged but were expected to recover. Stones ranged in size from ¼ inch to 3 inches in diameter.
Boone	29	6:00 p.m.	Heavy hail	W-NW	1½	15	0	Reported as severe but no estimate made	Storm occurred at Ashland, and vicinity, damaging roofs, windows, trees, and automobile tops. Crop loss small as practically none had been planted. Stones ranged up to 7 inches in circumference and covered the ground for about two hours.
Callaway	29	Between 7:00 p.m. and 7:40 p.m.	Heavy hail and high wind	W	2	8	0	$2,000	Storm occurred at Fulton, and vicinity, resulting in damage to roofs, windows, greenhouses, and power and communication lines. Approximately 75% of damage was from hail. Storm was accompanied by heavy rain. Hailstones were from ½ inch to 3¼ inches in diameter and covered the ground. No crop damage reported. It is possible this may have been a continuation of the Ashland storm above
St. Louis City	29	Between 10:00 p.m. and midnight	High wind and thunderstorms	W	....	....	0	$10,000	Storm occurred in extreme northeast section of the city, with damage to several buildings, a large floating boat dock, trees, and wires. Storm was accompanied by heavy rain and light to moderate hail in scattered areas of the city and in St. Louis County. Lightning struck three buildings in the area during thunderstorms early in the morning and again at night.

Time used on this tabulation is Central Standard Time, unless otherwise indicated.

WBO, St. Louis, 9-5-47—1130.

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U. S. DEPARTMENT OF COMMERCE, WEATHER BUREAU

CLIMATOLOGICAL DATA

19

MISSOURI SECTION

H. F. WAHLGREN
ST. LOUIS, MO.

VOL. LI MAY 1947 No. 5

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GENERAL SUMMARY

May was a rather cool month, with precipitation averaging slightly below normal. However, it was the most favorable month of the current spring for crop growth and field work, although at the close of the month much of the corn and other crops had not been planted, and plowing and planting operations and advancement of all crops were two to three weeks later than normal for this time of year.

It was the fourth consecutive month of the current year and the third consecutive May with sub-normal average temperature. Temperature extremes were not unusual, for the month as a whole; however, the cool spell the last three or four days of May was the coldest of record for so late in the season, at most places, and a number of stations reported light frost, or thin ice formation, on the mornings of the 29th and 30th, but without material damage, as a rule. The only general warm period during the month occurred from the 11th to the 18th, when daily averages were generally above normal. The prevailing low nighttime temperatures were largely responsible for the temperature deficiency during May, rather than low daytime temperatures, although daytime temperatures also averaged somewhat below normal. Monthly averages, with departures, by divisions, were as follows: Northern, 59.7°, —3.7; Southwestern, 62.9°, —2.2°; Southeastern, 64.2°, —1.6°; for the State, 62.3, —2.1°. Although frost, mostly light to moderate, formed on several nights during the month, very little damage resulted. The 9th, 10th, 29th and 30th were generally the coolest days during May, while the 14th and 15th were the warmest days.

The frequent showers and persistent wet weather that prevailed during April continued the first few days of May, after which there was a brief period of little or no rain anywhere in the State. However, on the 13th showers began again and frequent rains and wet weather continued throughout most of the remainder of the month. Most of the major streams of the State were rising steadily and were already at, or rapidly approaching flood levels, for the second time this month, as the month closed. Precipitation during the month was rather irregularly distributed, ranging from a total of 7.80 inches at Chillicothe Airport to 1.88 inches at Winona Ranger Station. Snowfall during May amounted to only a trace, occurring at a few scattered stations in the central and west-central portions of the State. Rainfall for May was heaviest in the Northern Division where the average was 4.75 inches, or 0.09 inch more than normal. The averages, with departures from normal, for the Southwestern and Southeastern Divisions were 4.54 inches, —0.69 inch and 3.85 inches, —0.72 inch, respectively; for the State as a whole, 4.38 inches, —0.44 inch. It was the driest May since 1941, and averaged 2.50 inches drier than May a year ago. The frequency of the month's rainfall, rather than the total monthly amount, caused May to be characterized as a wet month.

A number of damaging storms occurred during the month and these are tabulated elsewhere in this issue.

(Continued on page 35)

PRESSURE, WIND, HUMIDITY, AND SUNSHINE

Stations	Sea-level pressure, extremes-inches: Highest	Date	Lowest	Date	Wind: Average hourly velocity	Maximum velocity ¶	Direction of maximum	Date	Relative humidity: 12:30 a. m.	6:30 a. m.	12:30 p. m.	6:30 p. m.	Percentage of sunshine	Degree days
Columbia	30.39*	10	29.43*	28	7.4	30	w.	1	74*	78*	51*	53*	67	143
K. C. Airport..	30.32	9	29.46	28	10.4	36	nw.	1	70	80	52	52	57	127
St. Joseph Ap't	30.33	9	29.57	28	8.1	33	nw.	2	75	82	54	54	56	169
St. Louis ...	30.43*	10	29.48*	28	12.0	49	sw.	15	75*	73	51	53*	67	115
Springfield ...	30.32	10	29.48	28	11.7	44	w.	1	79	82	49	58	68	131
Cairo, Ill.	30.39	10	29.61	20	8.6	34	sw.	29	..	81	55	..	72	61
....	.....	..	.....	..	....	..	......	..	..	..	..	..	..	....

* Data for Airport station. ¶ For 5-minute period.

COMPARATIVE DATA FOR MAY

Year	Temperature: Average for State	Highest	Lowest	Precipitation: Average for State	Average, Northern Division	Average, Southwestern Division	Average, Southeastern Division	Snowfall, Average for State	Number of days: Precip. .01 inch or more	Clear	Partly cloudy	Cloudy
1888	62.1	93	30	4.98	6.23	4.73	3.98	....	5	..	..	..
1889	63.5	100	28	6.06	7.41	6.91	3.87	....	5	..	..	..
1890	62.8	97	26	3.65	2.91	4.62	3.43	....	6	..	..	..
1891	61.5	97	27	4.11	4.84	3.87	3.62	0	8	..	..	..
1892	60.7	91	28	9.04	8.72	10.11	8.28	0	17	5	9	17
1893	61.8	94	30	6.14	5.74	6.11	6.56	0	10	11	11	9
1894	63.7	96	29	4.31	2.60	5.18	5.14	0	8	13	11	7
1895	64.6	103	28	3.95	4.01	5.45	2.40	0	9	13	12	6
1896	70.1	96	37	9.17	9.00	10.29	8.22	0	12	12	12	7
1897	62.4	93	28	2.60	2.64	2.68	2.47	0	7	16	11	4
1898	65.2	97	31	7.68	8.36	7.81	6.88	0	14	12	10	9
1899	66.9	96	34	6.07	7.01	5.89	5.31	0	12	10	13	8
1900	66.3	97	29	3.63	3.80	3.00	4.09	0	10	14	11	6
1901	63.8	98	30	1.47	1.55	1.43	1.42	0	6	15	10	6
1902	69.4	98	39	4.82	5.31	5.65	3.51	0	11	13	11	7
1903	65.1	92	23	7.05	7.01	8.21	5.93	0	15	9	10	12
1904	63.1	95	32	4.74	5.46	5.40	3.35	0	12	13	10	8
1905	64.9	94	34	5.33	4.20	6.62	5.17	0	10	12	11	8
1906	66.3	98	27	2.45	2.08	3.02	2.25	0	7	15	10	6
1907	59.5	91	17	5.61	3.64	5.92	7.27	0.8	10	14	6	11
1908	66.1	96	24	6.91	8.16	6.77	5.79	0	12	12	10	9
1909	63.3	96	25	5.55	5.19	6.22	5.25	T.	9	15	9	7
1910	60.1	94	32	6.38	7.46	7.42	4.25	0	13	11	8	12
1911	68.8	101	27	1.46	2.45	1.10	0.84	0	5	19	7	5
1912	67.6	97	30	3.80	3.90	3.45	4.05	0	7	18	8	5
1913	65.8	101	33	2.79	3.82	3.16	1.40	0	8	16	7	8
1914	66.6	98	31	1.49	0.97	2.31	1.20	0	5	17	9	5
1915	63.7	97	30	7.72	8.34	8.11	6.70	0	12	12	7	12
1916	65.6	96	33	5.47	7.30	5.46	3.64	0	11	15	8	8
1917	58.7	91	30	4.28	4.14	5.38	3.32	0	.10	15	7	9
1918	68.3	100	28	5.50	5.71	4.23	6.57	0	10	16	8	7
1919	62.0	93	35	5.74	5.65	5.96	5.61	0	13	10	10	11
1920	63.8	97	32	5.01	3.77	5.10	6.15	0	12	9	9	13
1921	66.4	102	28	3.68	3.80	3.68	3.55	0	7	17	8	6
1922	67.2	97	38	3.07	3.53	3.59	2.09	0	10	14	10	7
1923	62.7	97	25	4.68	2.45	4.40	7.18	T.	12	11	10	10
1924	58.6	96	31	4.71	3.18	5.13	5.83	0	10	13	8	10
1925	61.2	98	24	2.10	2.32	2.39	1.60	0	7	14	9	8
1926	67.0	100	29	2.78	2.42	3.34	2.58	0	7	16	9	6
1927	64.6	94	34	6.95	4.55	6.77	9.54	0	12	11	10	10
1928	65.8	95	29	2.87	2.05	3.16	3.41	0	8	16	9	6
1929	61.7	95	28	7.76	5.30	9.66	8.31	0.3	13	9	10	12
1930	64.7	95	33	3.33	3.22	3.78	2.98	0	9	16	8	7
1931	61.0	96	29	4.50	4.84	4.64	4.03	0	10	15	6	10
1932	66.1	98	31	1.80	2.44	2.03	0.93	0	6	18	9	4
1933	65.9	96	35	7.75	6.44	8.07	8.74	0	13	11	9	11
1934	69.0	110	31	1.93	1.82	2.42	1.56	0	5	21	7	3
1935	60.3	92	32	8.46	9.73	7.99	7.66	0	17	6	8	17
1936	68.8	95	32	2.52	3.07	2.95	1.54	0	7	17	10	4
1937	66.2	98	34	3.86	3.97	4.36	3.25	0	9	13	11	7
1938	65.0	94	32	6.13	5.32	7.75	5.31	0	13	9	12	10
1939	67.4	102	31	4.17	2.94	5.98	3.60	0	9	15	9	7
1940	62.7	95	30	2.44	2.44	2.40	2.48	0	8	16	9	6
1941	68.9	97	35	2.29	2.71	1.95	2.21	0	8	16	11	4
1942	63.8	97	29	5.31	5.09	5.37	5.47	0	10	11	11	9
1943	63.9	95	33	9.91	7.83	13.05	8.85	0	16	7	9	15
1944	68.4	99	27	4.44	4.29	4.12	4.91	0	12	10	13	8
1945	60.5	92	31	5.50	4.79	6.20	5.50	0	12	10	9	12
1946	61.4	87	30	6.88	5.05	6.50	9.09	0	14	10	9	12
1947	62.3	92	29	4.38	4.75	4.54	3.85	0	11	13	10	8
....	....	..	..	....	....	....	....	....	..	..	..	..
Period	**64.4**	**110**	**17**	**4.82**	**4.66**	**5.23**	**4.57**	**T.**	**10**	**13**	**10**	**8**

Climatological Data for May 1947

Stations	Counties	Elevation, feet	Temperature, in degrees Fahr.							Precipitation, in inches						Number of days				Prevailing direction of wind	Observers
			Length of record, years	Mean	Departure from the normal	Highest	Date	Lowest	Date	Length of record, years	Total	Departure from the normal	Greatest in 24 hours 4	Date	Total snowfall, unmelted	With precip., .01 inch or more	Clear	Partly cloudy	Cloudy		
Northern Division																					
Albany	Gentry	930	6	58.6[b]	......	87[b]	14	32[c]	7†	18	4.57	+1.89	1.24	15	0	12	12[d]	8[d]	7[d]	n.	Curtis E. Grace
Amity	DeKalb	1,007	1	59.4	......	87	14	32	29	12	4.71	−0.54	1.62	27–28	0	13	12	8	11	nw.	O. M. Colhour
Bethany	Harrison	916	52	58.2	− 4.3	87	14	30	9	54	5.48	+1.31	1.50	27–28	0	12	15	6	10	sw.	B. A. McGregor
Brookfield	Linn	767	6	60.4	......	91	14	34	9	6	5.00	......	1.72	26–27	0	10	13	10	8	e.	G. F. Breen
Brunswick	Chariton	652	66	59.6	− 4.6	89	14	36	29†	68	5.36	+0.75	1.52	24	0	12	16	4	11	nw.	O. K. Benecke
Canton, Lock & Dam 20	Lewis	488	9	60.5	− 2.1	83	15	39	29	17	4.78	−0.54	1.00	17	0	14	11	11	9	nw.	Lockmaster
Carrollton	Carroll	754	1	61.1	......	90	14	31	9	1	4.54	......	1.24	24	T.	11	13	9	9	w.	Harold E. Finley
Chillicothe 2 mi ESE(C)	Livingston	771	38	58.4	− 4.5	89	14	34	9†	41	7.80	+3.71	2.39	28	0	15	9	11	11	n.	Civil Aeronautics Adm.
Columbia	Boone	740	57	62.0	− 3.0	88	14	39	29	57	3.24	−1.22	1.20	20	0	11	10	16	5	w.	U. S. Weather Bureau
Conception	Nodaway	1,108	58	59.4§	− 2.7	81	14	31	29	63	5.42	+1.36	2.48	28	0	11	12	10	9	nw.	Fr. Adelhelm Hess
Edgerton	Platte	856	27	58.7§	− 4.3	88	14	30	9	44	4.81	+0.61	1.56	28	*T.*	11	5	17	9	sw.	Leroy H. Mindrup
Elsberry	Lincoln	449	16	61.0	− 3.7	87	14†	29	9	16	2.62	−0.70	1.21	19–20	0	10	21	6	4	s.	Soil Conservation Service
Fayette	Howard	760	67	60.8	− 3.0	86	14	36	7†	64	4.55	+0.23	1.30	16–17	0	10	16	10	5	nw.	Irvin E. Schnell
Fulton	Callaway	818	59	61.7	− 2.9	88	14	34	9	55	3.36	−1.24	1.23	20	0	10	25	0	6	w.	Frank E. Hillgartner
Grant City	Worth	1,134	43	58.3	− 3.7	86	14	30	29	55	5.20	+0 97	1.95	28	0	10	16	6	9	n.	J. Homer Korn
Hannibal	Marion	759	55	59.2	− 4.4	85	14	37	9†	63	4.32	−0.03	1.01	27	0	9	12	11	8	nw.	Hannibal Water Dept.
Kansas City Airport	Jackson	741	58	61.9	− 2.9	89	14	35	29	58	4.26	+0.32	1.12	24	0	12	8	11	12	n.	U. S. Weather Bureau
Kansas City Univ	Jackson	908	9	61.9	− 3.1	87	14	34	29	9	4.37	−0.18	1.32	24	0	12	13	8	10	sw.	University of Kansas City
Kidder	Caldwell	1,020	55	59.2§	− 3.4	86	14	32	29	59	5.22	+0.57	1.24	28–29	0	13	18	1	12	n.	Mrs. Geraldine Terry
Kirksville	Adair	969	58	59.4	− 2.9	88	14	33	29	65	5.86	+0.53	1.48	24	0	16	16	5	10	nw.	Arthur Lee Jones
Kirksville Airport	Adair	970	8	56.8	......	85	14	34	29	8	5.50	......	1.16	27	0	13	8	6	17	nw.	Civil Aeronautics Adm.
Lathrop	Clinton	1,071	0	59.6	......	88	14	32	29	0	5 63	......	1.94	28	0	14	10	14	7	nw.	E. L. Fisher
Louisiana	Pike	469	53	61.2	− 2.5	88	14	32	9	66	5.57	+0.87	1.04	17	0	14	13	14	4	n.	Stark Bro's Nurseries
Macon	Macon	875	48	58.6	− 4.9	87	14	34	9	54	4.31	−0.28	1.17	27	0	13	14	4	13	nw	John W. Atwell
Maryville	Nodaway	1,169	57	58.5	− 2.8	87	14	31	29	53	4.56	−0.09	2.10	28	0	13	10	8	13	nw.	R. B. Montomery
Memphis	Scotland	787	8	56.8	......	86	14	34	9†	17	4.63	+0.62	0.70	27–28	0	14	10	10	11	nw.	John W. Alexander
Mexico	Audrain	800	58	59.6	− 4.4	87	14	33	9	69	2.61	−1.99	1.05	20	0	12	12	6	13	sw.	Darrence W. Stuart
Moberly 3½ mi. NE	Randolph	860	10	60.2	− 3.8	86	14	34	9	10	4.68	+0.71	1.00	24–25	0	12	11	16	4	w.	Robert A. Berg
New Florence. 1 mi SE	Montgomery	885	4	59.9	......	85	14	36	9	5	4.04	......	1.50	20	0	11	9	13	9	nw.	U. S. Weather Bureau
Oregon	Holt	1,048	91	60.1	− 3.1	88	14	32	29	91	4.62	+0.09	1.62	28	0	8	14	8	9	nw.	James M. Curry
Polo	Caldwell	1,000	1	59.2§	......	88	14	32	29	1	5.66	......	1.63	28	0	13	15	11	5	ne.	F. B. Albright
St. Charles	St. Charles	520	59	....	......	..	..	..	..	69	....	......	....	..	....	..	..	..	..	......	....
St. Joseph Airport	Buchanan	957	37	60.2	− 4.0	91	14	35	29	75	3.45	−1.25	1.11	27	T.	10	13	7	11	n.	U. S Weather Bureau
Salisbury	Chariton	723	1	61.2	......	90	14	35	9	1	6.22	......	1.85	16–17	*T.*	14	14	7	10	s.	David H. Robertson
Saverton, Lock No. 22.	Ralls	472	9	62.0	......	86	14†	32	9	9	5.00	−0.41	0.80	28–29	0	13	13	9	9	nw.	Lockmaster
Shelbina	Shelby	779	6	59.6	......	88	14	34	9	54	5.44	+1.12	1.24	27	0	10	14	8	9	nw.	Guyman Hatcher
Steffenville	Lewis	650	49	59.2	− 4.6	86	14	32	9	54	6.97	+2.40	2.83	20	0	16	15	4	12	nw	Mrs. Fannie V. Gross
Tarkio	Atchison	916	44	57.6	− 5.0	88	14	30	9	53	3.58	−0.96	2.26	28	0	13	10	13	8	n.	Civil Aeronautics Adm.
Trenton	Grundy	822	51	60.4	− 3.1	88	14	33	29	52	5.36	+1.78	1.56	28–29	0	14	10	19	2	n.	W. H. Estes
Unionville	Putnam	1,062	54	56.6	− 5.5	85	14	32	29	54	4.32	−0.93	0.90	28	0	15	12	14	5	w.	Mrs. Dora A. Wilson
Vandalia	Audrain	766	3	60.2	......	85	14†	34	9	8	2.74	......	0.83	20	0	8	16	6	9	w.	Mrs. Naomi K. Stoutz
Warrenton	Warren	816	65	62.3	− 2.6	89	31	30	9	57	4.10	−0.30	1.46	20	0	12	18	10	3	w.	W. T. Zimmerman
Keokuk, Iowa	Lee, Ia	574	75	58.8	− 5.0	87	14	37	29	75	4.51	+0.58	1.27	27–28	0	11	14	9	8	nw	U. S. Weather Bureau
Division means	**and extremes**	.....	..	**59.7**	**− 3.7**	**91**	**14**	**29**	**9**	..	**4.75**	**+0.09**	**2.83**	**20**	**0**	**12**	**13**	**9**	**9**	**nw.**	
Southwestern Division																					
Anderson 1½ mi SW	McDonald	1,000	43	61.4	− 4.3	89	14	36	30	48	6.01	+0.26	1.63	15–16	0	13	13	8	10	sw.	Samuel G. Chamberlain
Appleton City. 2 mi. W	Bates	813	52	62.5	− 2.5	88	14	35	29	55	4.58	−0.22	1.55	20	T.	11	17	11	3	sw.	F. Paul Eye
Bolivar	Polk	1,071	44	64.2[b]	− 0.6	90[b]	14	39[b]	29†	52	3.02	−2.33	0.86	15–16	0	11	16	10	5	sw.	Southwest Baptist College
Boonville	Cooper	650	9	60.8	− 2.6	85	14	37	9†	70	4.23	−0.38	0.83	28–29	0	11	12	6	13	sw.	Boonville Water Dept.
Butler	Bates	865	1	61.8	......	89	14	34	29	6	5.32	......	1.44	20	0	13	7	16	8	se.	Harley W. Johnson
Camdenton	Pulaski	940	1	64.8[d]	......	90[d]	14	37[d]	30	1	3.19	......	0.87	28	0	7	13[b]	12[b]	4[b]	sw.	Mo. Conservation Com.
Carthage	Jasper	962	13	64.4	......	92	14	38	29†	23	5.67	......	1.48	15–16	0	10	9	21	1	sw.	Carthage W. and E. Plant
Clinton	Henry	786	54	61.4	− 4.1	87	14	37	29	60	6.97	+2.14	1.37	17	0	12	13	8	10	s.	U. S. Weather Bureau
Eldon	Miller	934	52	64.2	0.0	88	14	37	9	48	3.18	−1.12	1.05	20	0	9	7	18	6	ne.	Arthur Rothwell
Harrisonville	Cass	904	69	61.0	− 2.8	86	14	34	29	72	4.53	+0.10	1.41	24	0	12	11	7	13	se.	Jefirey B. Patterson
Jefferson City	Cole	557	57	62.2	− 2.5	86	14	32	9	65	3.45	−0.96	1.66	20–21	0	14	16	9	6	sw.	K. W. O. S. Radio Farm
Joplin Airport	Jasper	988	25	63.7	− 2.6	92	14	40	29	42	5.33	−0.03	1.61	15–16	0	12	5	13	13	sw.	Civil Aeronautics Adm.
Lakeside	Miller	595	16	63.0	− 3.1	92	14	35	9	16	3.33	−0.94	0.93	20	0	9	13	10	8	sw.	W. S. Frame
Lamar	Barton	980	59	61.3	− 4.3	88	14	37	29	66	5.25	−0.01	1.30	23–24	0	8	19	3	9	sw.	Mrs. Marie Mann
Lebanon	Laclede	1,265	59	62.0	− 2.9	90	14	36	9†	60	2.78	−2.43	1.05	15–16	0	8	16	7	8	se.	Mrs. Rosa E. Montelius
Lexington	Lafayette	688	62	60.4	− 4.0	88	14	35	29	63	3.45	−1.51	1.23	24	0	10	18	7	6	s.	Tilton Davis
Lockwood	Dade	1,078	41	64.4	0.0	91	14	39	29	51	4.65	−0.67	1.08	15–16	0	9	14	14	3	sw.	Hubert A. Nieman
Marshall	Saline	779	60	62.3	− 1.9	87	14	35	9†	57	5.20	+0.59	1.14	24	0	11	13	14	4	e.	Thomas A. Reid
Monett	Barry	1,317	0	62.0	......	86	14	33	29	0	4.66	......	1.81	15–16	0	9	13	13	5	sw.	Mo. Univ. Fruit Exp. Sta.
Mountain Grove	Wright	1,463	46	63.6	− 0.2	84	14†	36	30	50	3.59	−0.87	1.55	15 16	0	9	17	9	5	se.	Mo. Fruit Exp. Station
Mount Vernon	Lawrence	1,174	35	64.1	− 1.7	91	14	37	30	47	3.34	−2.17	1.14	15–16	0	10	10	13	8	se	James C. Williamson
Neosho	Newton	1,011	60	65.0	− 1.0	90	14	36	30	64	4.54	−1.02	1.82	15–16	0	8	14	12	5	se.	U. S Fisheries Station
Nevada	Vernon	862	54	64.5	0.0	92	14	37	29	55	5.10	+0 17	1.48	20	0	13	16	9	6	sw.	Henry Kraft
Ozark Beach	Taney	700	7	65.8§	......	90	14	39	30	22	7.00	+1.78	2 72	14	0	11	6	11	14	sw.	Empire District Elec. Co.
Sedalia	Pettis	910	34	62.5	− 2.8	88	14	36	29	36	4.22	−0.32	1.12	20	0	9	14	9	8	sw.	Dr. J. E. Cannaday
Seligman	Barry	1,542	46	62.9§	− 1.6	86	14	38	29	44	5.21	−0.23	1.51	15–16	0	10	14	12	5	s.	Floyd E. Fawver
Seymour 3½ miles NE	Webster	1,642	41	60.4	− 3.3	85	14	33	30	41	5.04	+0.21	2.10	16–17	0	9	17	9	5	s.	Ira H. Hailey
Springfield 4 mi. NW	Greene	1,265	59	62.0	− 1.7	88	14	38	29	59	4.40	−0.79	2.06	15–16	0	10	7	12	12	s.	U. S. Weather Bureau
Sweet Springs	Saline	700	6	61.8	......	88	14	33	9	6	4.31	......	1.26	24	0	12	13	13	5	s.	H. F. Nelson
Warrensburg	Johnson	878	60	62.7	− 2.3	88	14	36[a]	29	67	5.18	+0.46	1.37	24	0	11	13	11	7	nw	Central Teachers College
Warsaw	Benton	687	46	64.2	− 1.3	91	14	35	9	52	5.16	+0 16	1.70	20–21	0	12	12	14	5	sw.	Dora B. Johnson
Wasola	Ozark	1,294	6	64.5	......	86	4	40	29†	7	3.56	......	0.93	15–16	0	9	11	14	6	s.	A. W. Pinckney
Waynesville	Pulaski	805	1	....	......	..	..	..	..	1	....	......	....	..	....	..	..	..	..	......	Jesse H. Barlow
Division means	**and extremes**	....	..	**62.9**	**− 2.2**	**92**	**14**	**32**	**9**	..	**4 54**	**−0.69**	**2.72**	**14**	**0**	**10**	**13**	**11**	**7**	**sw.**	
Southeastern Division																					
Advance ¼ mile W	Stoddard	354	10	64.0	− 1.8	90	15	36	10	10	5.40	+1.13	1.39	24–25	0	11	7	11	13	s.	U. S. Weather Bureau
Arcadia	Iron	926	66	62.6	− 1.5	89	14	32	9†	69	4.40	+0.16	1.99	15–16	0	10	16	2	13	e.	Arcadia College
Birch Tree ½ mile E	Shannon	1,000	52	63.8e	− 1.2	88e	14†	35e	30	53	2.39	−1.96	0.81	20	0	8	12e	8e	6e	nw	Mrs. Mildred E. Catlett
Black 9 miles NW	Iron	1,000	54	61.4	− 2.6	88	14	29	10	54	3.71	−0.80	1.38	15–16	0	15	16	13	2	sw.	M. L. Volner
Campbell	Dunklin	314	21	66.7	− 0.6	89	15†	42	8†	21	4 89	−0.12	2 10	20–21	0	13	15	14	2	s.	Mrs. Ruth Christian
Cape Girardeau	Cape Girardeau	347	2	65.4	......	88	15	39	9	47	5.17	+1.10	1.53	1	0	12	14	14	3	s.	Dr. Robert Martin
Caruthersville	Pemiscot	265	51	68.2	− 1.6	88	13†	46	10	55	5.01	+0.57	1.31	24–25	0	10	19	7	5	s.	Victor T. Malloure
Clearwater Dam	Wayne	648	1	64.8	......	88	13†	33	10†	1	2.93	......	1.51	24	0	10	12	9	10	nw.	U. S. Engineer Office
Crystal City	Jefferson	420	13	64.8	− 0.4	88	28	34	9	13	3.84	−0.32	1.17	20–21	0	10	10	6	15	nw.	Richard K. Ragland
Doniphan	Ripley	344	43	65.8	− 0.7	91	15	33	10	43	4.35	−0.01	1.10	19–20	0	14	16	8	7	w.	Boyce Lackey
Farmington	St. Francois	896	36	62.9	− 0.8	85	15†	33	9	50	5.23	+0 16	2.25	15	0	11	11	7	13	nw.	F. M. Karsch
Greenville	Wayne	460	38	63.5[a]	− 2.4	89[a]	13†	32[a]	10†	40	4.35	+0.17	1.44	15	0	12	17[a]	7[a]	6[a]	s.	Beuford Shoemake
Jackson	Cape Girardeau	428	56	65.4	− 0.2	90	13†	34	9	57	3.62	−0.65	0.88	24–25	0	11	11	16	4	sw.	Danny Siebert
Koshkonong	Oregon	958	46	66.2	− 0.4	88	5	40	30	47	4.23	−0.32	1.78	20	0	9	12	7	12	s.	Mrs. Genevieve T. Smith
Licking 4 miles N	Texas	1,170	10	62.0	− 2.4	84	15	33	30	10	2.58	−2.55	1.10	15–16	0	5	14[b]	5[b]	10[b]	s.	Fern E. Austin

Continued on next page

Climatological Data for May 1947—Continued from preceding page

Stations	Counties	Elevation, feet	Temperature, in degrees, Fahr.							Precipitation, in inches						Number of days				Prevailing direction of wind	Observers
			Length of record, years	Mean	Departure from the normal	Highest	Date	Lowest	Date	Length of record, years	Total	Departure from the normal	Greatest in 24 hours [4]	Date	Total snowfall, unmelted	With precip., .01 inch or more	Clear	Partly cloudy	Cloudy		
Southeastern Division—	*Concluded*																				
Marble Hill	Bollinger	532	52	64.2	− 1.4	89	13†	33	10	54	3.62	−0.87	0.92	24	0	9	20	2	9	s.	R. A. DeWitt
Poplar Bluff	Butler	339	42	66.1	− 1.4	88	13†	39	11	43	5.26	+0.74	1.29	24-25	0	9	13	8	10	sw.	Osmon M. Richardson
Rolla	Phelps	1,202	47	61.7	− 2.8	86	14	38	29	63	2.60	−2.15	0.98	20	0	8	7	19	5	w	Rolla School of Mines
St. Louis:																					
City Office		465	110	64.0	− 3.0	86	15	40	9	110	2.43	−1.91	1.14	20-21	0	14	13	7	11	s.	**Section Center**
St. Louis Airport	St. Louis	556	10	63.0	− 2.8	89	14	38	9	16	3.23	−0.69	1.66	20	0	14	13	4	14	nw.	U. S. Weather Bureau
St. Louis University	St. Louis City	578	35	64.0	− 1.7	86	15	40	9	35	2.19	−2.00	1.04	20-21	0	13	20	7	4	se.	St. Louis University
Salem	Dent	1,206	43	63.6	− 0.9	89	14	34	30	46	3.39	−1.12	1.53	15-16	0	11	15	13	3	s.	E. E. Martin
Sikeston	Scott	318	40	64.9	− 3.6	88	15†	39	10	50	4.85	+0.61	1.09	12-13	0	10	15	14	2	se.	Mrs. Lucy W. Humphreys
Union 1½ mi. SE	Franklin	520	9	63.3	− 1.4	88	14	34	9	30	4.14	−0.40	1.64	20	0	8	14	8	9	nw.	Cornelius Sieges
Vichy 2 mi. NW	Maries	1,125	11	62.2	......	88	14	38	29	12	2.96	......	1.20	20	T.	9	11	13	7	nw.	Civil Aeronautics Adm.
Wappapello Dam	Butler	475	8	64.8	......	88	13	40	10	8	4.16	−0.35	1.42	20-21	0	11	18	7	6	sw.	U. S. Engineer Office
Webster Groves	St. Louis	507	1	63.2	......	90	15	36	9	2	2.53	......	0.88	20-21	0	9	15	12	4	w.	R. W. Lawrie
Weingarten	St. Genevieve	833	6	63.2	......	83	26†	34	9	7	3.35	......	1.47	15-16	0	8	11	16	4	s.	William J. Miller
West Plains	Howell	1,005	10	63.2	− 1.4	88	14	37	30	10	2.76	−2.22	0.78	19-20	0	10	7	12	12	s	U. S. Weather Bureau
Willow Springs 500 ft E	Howell	1,238	6	64.0	......	86	14	37	30	40	3.67	−0.93	0.94	24	0	8	15	11	5	s.	Allen Frazee
Cairo, Ill.	Alexander, Ill.	314	75	67.1	− 2.3	88	16	45	10	76	5.71	+2.00	1.25	12	0	11	6	13	12	s.	U. S. Weather Bureau
Division means	**and extremes**	.....	..	**64.2**	**− 1.6**	**91**	**15**	**29**	**10**	..	**3.85**	**−0.72**	**2.96**	**24-25**	**0**	**10**	**13**	**10**	**8**	**s.**	
State means	**and extremes**	.....	..	**62.3**	**− 2.1**	**92**	**14**	**29**	**9†**	..	**4.38**	**−0.44**	**2.96**	**24-25**	**0**	**11**	**13**	**10**	**8**	**nw.**	

The departures from normal temperature are computed from the averages of the entire period for stations having 10 or more years of record. Departures of precipitation for stations with 15 years or more of record are computed from a normal or "standard mean", adjusted to a uniform 35-year period; for stations of 10 to 14 years the means for the period of record are used. The normal may be found by adding the departures when minus (−) or subtracting when plus (+). Figures and letters following stations indicate distance in miles and direction of station from the city Post Office, unless otherwise indicated. T. Trace or 0.005 inch or less. [a], [b], [c], etc., number of days missing; for example, [b], indicates two days missing. Italics data interpolated. § Partly interpolated. † And other dates. ‡ Received too late to be included in means and summaries. [4] Best available used for stations not equipped with recorders. Post office address of: Altona is Adrian; Clearwater Dam is Piedmont; Crane Mountain is Arcadia; East End is Goodland; Eastwood Lookout is Van Buren; Hailey is Cassville; High Lookout is Birch Tree; Macedonia Lookout is Doniphan; Oates Tower is Centerville; Perry is Center; Pineview Lookout is Cape Fair; Sugar Camp Lookout is Seligman; Topaz is Cabool; Wilderness Lookout is Lampe. (C) Airport. ¶ Indicates plus.

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The cool month, with its frequent rains, was generally unfavorable for preparing the ground for seeding of spring crops and for the best growth and development of corn, that had been planted, and for cutting and curing of hay crops. However, it was a very good month for wheat, grasses, and the few oats that had been planted, and these crops made good progress during the month. Wheat was about one-half headed and oats beginning to head in southern portions of State the latter part of May. The brief cessation of rain over the entire State, between the 3d and 13th, permitted all field work to advance rapidly, after having been seriously delayed during March, April and the first two days of May, but there were only brief intermittent periods, after about the 13th, during which farmers could get into the fields to resume work. At the close of May only about 70% of the corn and approximately 30% of the soybean crops had been planted, while cotton planting in southeastern counties was mostly completed, by the end of the month. First cuttings of alfalfa hay were made during the latter half, but this work was hampered by frequent showers. Pastures were in very good condition during May and furnished abundant grazing for livestock. Fruit prospects continued very promising throughout the month, with a few exceptions, and picking of a good crop of strawberries was under way over the greater part of the State, during the last two weeks. Warmer and drier weather was badly needed at the close of the month, to permit planting, replanting, and cultivation of crops and harvesting of hay.—M. R. W.

TEMPERATURE

The monthly mean for the State, 105 stations reporting, was 62.3°, or 2.1° below the 60-year May average. The highest monthly mean was 68.2° at Caruthersville, and the lowest was 56.6° at Unionville. The highest reported was 92° at Carthage, Joplin Airport, Lakeside, and Nevada on the 14th, and the lowest was 29° at Elsberry on the 9th and near Black on the 10th.

PRECIPITATION

The average for the State, 212 stations reporting, was 4.38 inches, or 0.44 inch less than the 60-year May average. The greatest monthly amount was 7.80 inches at Chillicothe Airport, and the least was 1.88 inches at Winona. The greatest amount reported in 24 hours was 2.96 inches at Eastwood Lookout on the 24-25th. The average number of days with 0.01 inch, or more, was 11. Only a very few stations reported snowfall, amount being only a trace at any place.

MISCELLANEOUS PHENOMENA

Floods.—In Grand River, at Chillicothe, 29th to 31st. In Mississippi River, in the reach bordering the State, continued from April to May 9th, except at Hannibal and Dam No. 25 where the flood continued from April to May 21st and May 10th, respectively; in the reach from Hannibal to Dam No. 25, on the 28th and continued into June. In the Missouri River, at Hermann and below, continued from April to May 2d. In Osage River, at St. Thomas, continued from April to May 1st. In St. Francis River, at Fisk, continued from April to May 8th.

Fogs.—Heavy, 13th, 14th, 15th, 17th, 18th, 19th, 20th, 21st, 22d, 23d, 24th, 25th, 28th.

Frosts.—Light, 6th, 7th, 8th, 9th, 10th, 11th, 12th, 29th, 30th; heavy, 7th, 9th, 29th; killing, 9th, 29th.

Hail.—Light, on 1st at Brunswick, Fayette, Salisbury, Tarkio, Crocker, Advance, Cape Girardeau, Crystal City, Farmington, Jackson, Puxico, Rolla, St. Louis; 2d at Fulton; 14th at Maryville; 15th at Bethany, Martinsburg, Shelbina, Springfield, Centerville, Reynolds; 17th at Martinsburg and Stover; 27th at Brunswick; 28th at Kansas City University, Maryville, St. Louis; 29th at St. Louis; 31st at Martinsburg. Moderate, 1st at Cassville, Wappapello Dam, southern Pemiscot County (See special storm table).

Tornado.—20th. (See special storm table).

Windstorms.—1st, 15th, 28th. (See special storm table).

Daily Precipitation for May 1947

Stations	Drainage-basins	Day of month																															Total
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Northern Division																																	
Albany	Grand	*	.24									T.	T.			1.24	.09	.20		.03			.08		.67		.03	.65	.96	.38			4.57
Amity	....do	.45	T.			T.	T.					T.	T.			.02	.20	.11		.02		T.	.05	.17	.62	T.		1.35	1.62	.03	.05	.02	4.71
Auxvasse	Missouri	.29	.12				T.										.04	.83			1.09	T.			.15			.10		.56			3.18
Bethany	Grand	*	.61			T.	T.							T.		1.10	.05	.51		T.			.12		*	.71		.61	1.50	.10	.17		5.48
Bowling Green[2]	Mississippi	.25	.05	.21												.11	.07	.47	.20			.93				.07		.30	.05	.65			3.36
Brookfield[2]	Grand	.22	.05													.40			.40			.17		.45		.89		1.22	.50	.70			5.00
Browning.....3 mi. NE	....do	.36	T.			.02	T.					T.	T.			.62	.04	.81		.01	.09		.01	.79	.78		.02	1.06	1.16	.09	.02	.01	5.89
Brunswick[2]	....do	.28	.07				T.							T.		.04	.08	.68	.22			.38		.12		1.52		.42	.40	1.15			5.36
Canton, Lock No. 20[2]	Mississippi	.06	.03	.19		T.										.10	.14	.40	1.00			.37		.15		.46	.08	.50	.77	.53			4.78
Carrollton	Missouri	.23														.42	.12	.90	.07		.15		T.	.08	1.24			.41	.30	.62	T.		4.54
Centralia[2]	Mississippi	.29		.05												.18		.38	.18			.90			.39	.34		.12		.81			3.64
Chillicothe[2] ......(B)	Grand	.25	.17				T.									.48	.01	.13		.03		.08	.10	.50	.06	.96		1.12	1.19	1.02	.01		6.11
Chillicothe[3] 2mi ESE(C)	....do	.08	T.			T.	.03									.62	.07	1.06		.02	.04		.28	.28	.95		.01	1.24	2.39	T.	.01	.72	7.80
Columbia[1, 5]	Missouri	.39	.02			T.	T.						.01			.03	.01	.35			1.20			.08	.39		T.	.05	.71	T.		T.	3.24
Columbia[5] ..9 mi. WNW	....do	.34	T				T.							.07		T	.05	.71			.80	.09		.35	.41	.05		.05		.80			3.72
Conception	....do	.17				T.								.04		.09	T.	.47		.04		T.	.06		.77			.86	2.48	.22	.22		5.42
Edgerton[2]	....do	T.														.05	.03	.60	.22	T.		.05		.43	.09	.53		1.25	.26	1.30			4.81
Edina[2]	Mississippi	.15		.10												.10	.48	.50	.96		.45			.93		.44		.48	.94	.70			6.23
Elsberry S. C. S.[2]	....do	.31	.05	.16			.02										.17	.13			1.21					.11		.43	.03				2.62
Fayette	Missouri	.38	.01										T.	T.		.30	.30	1.00			.69			.05	.98			.17		.67			4.55
Fulton[2]	....do	.30	.26	.07									T.			.06	.10		.55	T.		1.23				.23		.03		.53			3.36
Gallatin[2]	Grand	.46	.10					T.								.08	.02			.07				.32	.05	.77		1.29	.21	1.44	.03		4.84
Grant City	....do	.90														.54	T.	.42					.28		.62		.05	.22	1.87	.08	.22	T.	5.20
Hannibal[1] ....(A)	Mississippi	.10	.23										T.			.45	.45	.03			.75			T.	.53			1.01	.77			T.	4.32
Hannibal[2] ....(B)	....do	.03	.04	.24			T.	T.								.28	.21	.45	T.			.76			.12	.24		.95	.46	.38			4.16
Hermann[2]	Missouri	.42	.32	.31										.03			.25	.22	.08			1.45				.15		.20		.50			3.93
Kahoka[2]	Mississippi	.07	T.	.26												.11	.56	.42	.33			.34		.90		.42	.10	.23	.97	.72			5.43
Kansas City Airport[1, 5]	Missouri	T.					.02						T.			.38	.06	1.06		.03	.23		.05	.18	1.12		T.	.33	.73			.07	4 26
Kansas City University	....do	.15		T.			.01					T.				.44	.10	.48		.05	.23			.06	1.32		T.	.34	.80	.39			4.37
Kidder[2]	Grand	.26					T.									.23	.23	.04	.10	.02		T.		.57	.02	.85		1.17	.46	1.24	.03		5.22
King City	Missouri															.86	.21						T.		.80			1.23	1.36				4.46
Kirksville	Mississippi	.31	.02			*	.05										.64	.36			.26	.09	.03	.53	1.48	.03	.09	1.12	*	85			5.86
Kirksville Airport[5]	....do	.12	.04			.06										.95	.36	.23			.23		.37	.53	.56		T.	1.16	.88	T.	T.	.01	5.50
LaBelle[2]	....do	.08		.13			T.									T.	.38	T.	.70		.10	1.39		.40		.42	T.	.75	1.10	.88			6.33
Lathrop	Grand	.24	T.									T.				.20	.07	.15		.01	.06		.05	.61	.92			1.12	1.80	.14	.02	.24	5.63
Linneus	....do	.35														1.02	.02	1.00		.01	.06		.02	.41	1.25	.04		1.20	.56	.99	.11		7.04
Louisiana ....(A)	Mississippi	.32	.26				.02						.02			.35	.54	1.04			.54	.40		.05	.05	.09		.96		.93			5.57
Louisiana[2] ....(B)	....do	.30	.05	.26												.28	.72	.75	.55			.98			.04	.12		.87	.11	.96			5.99
Lucerne[3]	Grand	*	.30			T.										.20	.30	.20			T.	T.		.80		.25		.30	.70	1.00	.10		§4.15
Macon[2]	Chariton	.16	T.	.02			.01									.03	.05	.69	.12			.42		.07		.50		1.17	.35	.72			4.31
Madison[2]	Mississippi	.18															.65	.85				1.10				1.05		.73		.75			5.31
Martinsburg[2]	Missouri	.29	.07	.15			T.							T.		.12	.05	.37	.60			.92			T	.11		.07	.04	.62			3.41
Maryville	....do	.20				.02							T.	T.		.25	.06	.25		.04	.03		.12		.81			.40	1.97	.13	.28	T.	4.56
Memphis[2]	Mississippi	.24	T.	.09			.02									.13	.53	.13	.22			.28		.61		.60	.12	.33	.70	.63			4.63
Mexico[2]	....do	.22	.04	.07			T.										.05	.12	.12			1.05			.02	.13		.05	.13	.61			2.61
Milan[2]	Grand	.15					.18	T.								.37	.50	.06				T		.54	T.	.79	.12	1.05	.25	.67	.06		4.74
Moberly[2] ....3½ mi. NE	Mississippi	.30		.15			.03									.09	.29	.76	.10			.59				1.00		.54	.13	.70			4.68
Monroe City	....do	.11				T.										1.48	.27	.62			2.04			.04	.52			1.24	.08				6.40
New Florence[3, 5] 1 mi SE	Missouri	.37	.19			T.							.02	T.		.12	.42	.44			1.50				.41	T.	T.	.05	.51	T.		.01	4.04
Oregon	....do	.11					T.										.34	.11		.10			.02		.80			1.62	1.52				4.62
Palmyra[2]	Mississippi	.08	*	.23												.36	.62	.23				.64				.50		.74	.06	.25	.62		4.33
Paris[2]	....do	.15	.03	.15			.03									.32	.14	.80	.30			1.11			.09	.65		1.13	.05	.87			5.82
Perry ....1 mile E	....do	.18	.14				.03									.15	.05	.25			.75	.20		.75	.15	.07		.57		.65			3.94
Philadelphia	....do																																....
Polo[2]	Missouri	.28	T.													.19	.06	.01	.75	T.		.10		.53	.12	.97		.93	.07	1.63	.02		5.66
St. Charles[2] ....(A)	.... do																																....
St. Charles[2] ....(B)	.... do	.12	.06	.21			T.	T.						.17			.14	.03	.17	T.		1.70				.34		.04	.02	.44			3.44
St. Joseph Airport[1, 5]	....do	T.		T.			.01				T.		T.			.02	.51	.04		.05	T.		.10	T.	.56		.02	1.11	1.03			T.	3.45
Salisbury	Chariton	.42	.01			T.										.01	.10	1.85	.02		.52	.01		.06	1.21	.01		.42	.65	.93			6.22
Saverton, Lock No. 22[2]	Mississippi	.15	.06	.20			T.	T.						T.		.67	.07	.39	.42		T.	.59		T.	.60	.16		.72	.17	.80			5.00
Shelbina	....do	.30	.14			T.	T.									.43	.22	.58			.85	T.			.93			1.24	.10	.65			5.44
Shelbyville[2]	....do	.09	.04	.12			.08									.33	.26					.90			.07	.71		1.02	.33	.51			4.46
Steffenville	....do	.12	.12			*	.02									.16	.31	.91			2.80	.03		.12	.55	.05		1.00	.17	.60		.01	6.97
Tarkio[3]	Missouri	T.				T.	.01				T.				.05	T.	.08	T.	.05	.01	.15	.11	.02		.46	T	.01	.09	2.26		.28	T.	3.58
Trenton[2]	Grand	.30	.07													.27	.13	.10	.06	.02		T	.08	.39	T.	.69		1.35	.29	1.56	.05		5.36
Troy[2]	Mississippi	.35	.08	.25			T.	T.						.02			.19	.40	.05			1.37				.12		.50	.01	.60			3.94
Unionville[2]	Chariton	.42	.18				.05									.32	.34	.15		.01			.11	.05		.54	.16	.25	.75	.90	.09		4.32
Vandalia	Mississippi	T.	.14			T.	T.							T.		.21	.13	.22			.83		T.		.23			.29		.69			2.74
Warrenton	....do	.28	.29	T.									.03	.04			.23	.91			1.05	.41			.17	.05		.20		.44			4.10
Keokuk, Iowa[1]	....do	.14	.25			T.	T.									.40	.16	.62		T.	.41		T.	.50	.20		.05	.90	.88			T.	4.51
Southwestern Division																																	
Altona[2]	Osage	.50												.15		T.	.34	.75	.65	.06		1.15		*	.73	.55		.10		.69			5.67
Anderson[2] ...1½ mi. SW	Neosho	.50									T.		.02	.42			1.13	.50		.60	1.40	.70			.33	.30		*	.05	.06			6.01
Appleton City..2 mi. W	Osage	.40				T.	T.		T.				T.	.01		.10	.30	.78		.06	1.55			.26	.72			.07		.33		T.	4.58
Ava Ranger Station[2]	White																																....
Bolivar	Osage	.42											.02			T.	.86	.02	.08	.03	.78	T.		.04	.41			.04		.32			3.02
Boonville[2] ....(A)	Missouri	.23	.02											.08			.06	.50	.43			.78			.61	.63		.06		.83			4.23
Boonville[2] ....(B)	....do	.24												.08			.04	.65	.45			.67			.23	.92		.06		.70			4.04
Bradleyville[2]	White	.56												.74	.45	.46	.84				.41	.56			.73	.38							5.13
Buffalo[2]	Osage	.51															.75					1.00			.04	.25		.07		.35			2.97
Butler	....do	.01				T.	T.		T.				.01	.52		.31	.11	.70		.32	1.44			.23	1.28			.15	.07	.17		T.	5.32
Camdenton	....do	.63															.45				*	.84			*	.40				.87			3.19
Caplinger Mills[2]	....do	.45	.01											.09			1.14	.03	.27		.29	.54			1.09	.77		.03		.44			5.18
Carthage	Neosho	.72								.04			.40				1.48			.67	1.03			.47	.60			.03		.23			5.67
Cassville[2]	White	.58					.03				T.		T.	.88			1.34	.54			.33	.68			.42	.22		*	.02	.02			5.06
Chadwick[2]	....do	.45	T.										.58	.61		.65	1.10	1.31			.71	.72				.10			T.				6.23
Clinton[3]	Osage	.18											.26			.33	.03	1.37		.07	1.27			.37	1.13			.36	.57			1.03	6.97
Concordia	Missouri	.33					T.						T.			.04	.38	.57			.53			.04	1.50	.02	T.	.18	.37	.79			4.75
Crocker	Osage	.70															1.08				1.21	T.	T.	T.						.29	.40		3.68
Eldon	Missouri	.65	T.										T.	.08		T.	.37	.07	T.		.97	.08		T.	.22	.03		T.		.71		T.	3.18
Eldorado Springs	Osage	.43			T.								.11			T.	.81	.08		.03	.96			.21	.47			.08		.40			3.58
Elijah[2]	White																																....
Forsyth[2]	....do	.40												.80		1.83	.85				.17	1.21			.45	.20				.03			5.94
Galena[2]	....do	.53									.03			1.05	.03	.11	1.20	.94			.59	.68			.30	.10		.03		.03			5.62
Granby[2]	....do	.54											.06	.32	T.		1.53	.14			.52	.61		.37	.49			.03		.19		T.	4.80
Hailey	....do	.62											.74	T.			1.90	T.			.98												4.24
Harrisonville[2]	Osage	.32															.53	.12	.49	.04		.73		.04	.70	.71		.18	.06	.61			4.53
Jefferson City[2] ....(A)	Missouri	.34	.01	.04										.10		.04	.22	.04	.04	T.		1.66	T.		.04	.24	T.	.02	.01	.65	T.		3.45
Jefferson City[2] .....(B)	....do	.41	.02	.01				T.						.06		.05	.21	.02	.04			1.29			.08	.19			.01	.68			3.07

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Stations	Drainage-basins	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Total
Southwestern Division—	*Concluded*																																
Joplin Airport[1]	Neosho	.62	....	....	....	....	....	....	.02	....	....	T.	.34	....	....	.92	.71	T.	....	.21	1.15	....	....	.44	.62	....	....	.03	.21	....	....	.06	5.33
Lakeside[2, 5]	Osage	.57	.01	T.	....	....	....	....	....	....	....	....	....	.22	....	....	.33	T.	.03	....	....	.93	....	....	.01	.58	....	T.	T.	.65	....	....	3.33
Lamar[2]	Neosho	.50	....	....	....	....	....	....	....	....	....	....	....	.30	....	....	1.17	....	....	....	.43	.80	....	....	1.30	.15	....	T.	....	.60	....	....	5.25
Lebanon[2]	Osage	.36	T.	....	....	....	....	....	....	....	....	....	....	T.	....	....	.83	.22	.01	....	.03	.93	....	....	.16	T.	....	....	....	.24	....	....	2.78
Lexington[2]	Missouri	.20	*T.*	....	....	....	....	....	....	....	....	....	....	....	....	T.	.35	.03	.18	....	....	.28	....	.10	T.	1.23	....	.30	.08	.70	....	....	3.45
Lockwood	Osage	.47	T.	....	....	....	....	....	....	....	....	....	.22	....	....	....	1.08	....	....	.60	1.01	....	....	.19	.49	....	....	.04	....	.55	....	....	4.65
Mansfield[2]	White	.38	....	....	....	....	....	....	....	....	....	....	....	.58	....	....	1.29	T.	....	....	1.35	.69	....	....	T.	.09	....	....	....	....	....	....	4.33
Marshall	Missouri	.03	....	....	....	....	....	....	....	....	....	....	....	....	....	T.	.70	.58	*T.*	....	.63	....	....	.65	1.14	....	....	.24	.13	1.00	.10	....	5.20
Marshfield[2]	White	.33	T.	....	....	....	....	....	....	....	....	....	....	.06	....	*	1.34	1.03	.08	....	.10	.64	....	....	.01	.06	....	T.	T.	.42	....	....	4.07
Monett[2]	Neosho	.63	....	....	....	....	....	....	....	T.	....	....	T.	.59	....	....	1.55	.26	....	....	1.00	.05	....	....	.02	.54	....	.02	....	T.	....	....	4.66
Mountain Grove[2]	Gasconade	.34	....	....	....	....	....	....	....	....	....	....	....	.49	....	.11	1.15	.40	....	....	.15	.73	....	....	.06	.16	....	....	....	....	....	....	3.59
Mount Vernon[2]	Neosho	T.	....	....	....	....	....	....	....	....	....	....	....	.22	....	....	1.14	.11	....	.02	.89	.50	....	.08	....	.28	.05	....	....	.05	....	....	3.34
Neosho	do	.60	....	....	....	....	....	....	T.	....	....	T.	.36	....	....	T.	1.82	....	....	.08	.93	....	....	.30	.23	....	....	....	....	.22	....	....	4.54
Nevada	Osage	.45	....	....	....	....	....	....	....	....	....	....	.04	.08	....	.45	.52	.43	....	.05	1.48	....	....	.47	.72	....	....	.03	*	.38	....	....	5.10
Osceola[2]	do	.80	T.	....	....	....	....	....	....	....	....	....	....	.10	....	T.	.35	.07	.20	....	.20	1.27	....	....	.55	.26	....	T.	.05	.47	....	....	4.32
Ozark[2]	White	.55	....	....	....	....	....	....	....	....	....	....	....	.39	....	....	.97	.81	....	....	.24	.51	....	....	.15	....	....	....	....	....	....	....	3.62
Ozark Beach[2]	do	.40	.05	....	....	....	....	....	....	....	....	....	....	.74	.08	2.72	.80	.03	....	....	.28	.78	....	....	.88	.24	....	....	....	....	....	....	7.00
Pierce City[2]	Neosho	.71	....	....	....	....	....	....	....	.03	....	....	....	.33	.04	....	1.46	.20	....	.02	....	1.03	....	....	.68	.11	.03	....	....	.03	....	....	4.67
Pineview Lookout[2]	White	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Pleasant Hill[2]	Osage	.28	....	....	....	....	....	....	....	....	....	....	....	.15	....	....	.55	.20	.75	.06	....	.58	....	.07	.40	.85	....	.22	.48	.68	....	....	5.27
Roby	Gasconade	.31	....	....	....	....	....	....	....	....	....	....	.18	.02	....	....	1.50	.08	....	.04	.59	.02	....	T.	.21	.07	....	T.	....	.17	....	....	3.19
St. Thomas[2]. 2¼ mi SW	Osage	.52	....	....	....	....	....	....	....	....	....	....	....	.28	....	....	.34	....	....	....	....	1.25	....	....	....	.36	....	T.	....	.85	....	....	3.60
Sedalia	Missouri	.27	....	....	....	....	....	....	....	....	....	....	....	.03	....	....	.28	.64	....	....	1.12	....	....	.20	.84	....	....	.11	....	.73	....	....	4.22
Seligman[2]	Neosho	.35	....	....	....	....	....	....	....	....	....	....	....	1.05	.98	....	.83	.68	....	....	.43	.49	....	....	....	.34	....	.02	....	.04	....	....	5.21
Seymour[2]....3½ mi. NE	White	.41	T.	T.	....	....	....	....	....	....	....	....	T.	.43	....	....	....	1.60	.50	.16	1.09	.45	....	....	.36	T.	....	....	T.	....	.04	....	5.04
Shell Knob[2]...3 mi. SE	do	.28	....	....	....	....	....	....	....	....	....	....	.94	....	....	....	.86	1.14	....	....	.50	1.15	....	....	.13	.02	....	....	T.	.08	....	....	5.10
Siloam Sprgs Lookout[2]	do	.41	....	....	....	....	....	....	....	....	....	....	....	.46	....	....	.55	....	....	....	.62	.59	....	....	.21	.49	....	....	....	....	....	....	3.33
Springfield[1, 5]. 4 mi. NW	do	.35	....	....	T.	....	....	....	....	....	....	T.	.06	....	.42	1.17	.89	T.	....	.34	.86	....	....	.08	.22	T.	....	.01	T.	T.	....	T.	4.40
Stover[2]‡	Missouri	.46	T.	....	....	....	....	....	....	....	....	....	....	.19	....	....	.23	....	.53	....	....	1.60	....	....	....	.51	....	....	....	.50	....	....	4.02
Sugar Camp Lookout[2]	White	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Sweet Springs	Missouri	.41	....	....	....	....	T.	....	....	....	....	....	T.	....	....	.02	.21	.51	.11	....	.62	....	....	.03	1.23	.03	....	.14	.36	.64	....	....	4.31
Tecumseh[2]...¼ mi. W	White	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Topaz[2]	do	.30	....	....	....	....	....	....	....	....	....	....	....	.43	....	1.70	....	....	....	.33	.73	....	....	.15	.33	....	T.	....	.04	....	....	....	4.01
Vanzant[2]....3¾ mi. SE	do	.47	....	....	....	....	....	....	....	....	....	....	....	.45	....	....	1.55	....	....	....	.24	.70	....	....	.14	.24	....	....	....	....	....	....	3.79
Waco[2]	Spring	.69	....	....	....	....	....	....	....	T.	....	....	.10	.27	....	....	2.16	.08	....	.09	.66	1.01	....	....	1.37	.17	....	T.	....	.84	....	....	7.44
Warrensburg	Missouri	.46	....	T.	T.	....	....	....	....	....	....	T.	T.	....	....	.03	.32	1.02	.09	....	.70	....	....	.06	1.37	....	....	.10	.58	.45	....	....	5.18
Warsaw[2]...........(A)	Osage	.66	T.	T.	....	....	....	....	....	....	....	....	....	.15	....	....	.30	.28	.30	....	.05	1.70	....	....	.68	.40	....	.03	.04	.57	....	....	5.16
Warsaw[2]...........(B)	do	.65	T.	....	....	....	....	....	....	....	....	....	....	*.11*	....	....	T.	T.	.65	....	....	1.89	....	....	.67	.27	....	....	....	.56	....	....	§4.80
Wasola[2]	White	.47	....	....	....	....	....	....	....	....	....	....	....	.75	.08	....	.93	....	....	....	.19	.60	....	....	.13	.37	....	....	....	.04	....	....	3.56
Waverly[2]	Missouri	*	.16	....	....	....	....	....	....	....	....	....	....	....	....	.11	.31	.27	.60	....	....	.28	....	.40	.18	1.46	....	.40	.18	.32	....	....	4.67
Waynesville	Gasconade	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Wilderness Lookout[2]	White	.56	....	....	....	....	....	....	....	T.	....	....	....	.90	.14	....	1.83	.20	....	....	.29	1.09	....	....	....	.07	....	....	....	.10	....	....	5.18
Southeastern Division																																	
Advance[3].....¼ mile W	St. Francis	.87	.22	....	....	....	....	....	....	....	....	....	.50	....	....	.47	T.	.07	....	.27	1.09	.24	....	T.	1.31	.08	....	....	.28	....	....	....	5.40
Alton.......10 miles SE	Black	.21	....	....	....	....	....	....	....	....	....	....	.27	.30	....	....	....	.05	....	.09	.74	.15	....	....	....	1.65	....	....	....	....	....	....	3.46
Annapolis[2].....7 mi. W	do	.20	.07	.15	....	....	....	....	....	....	....	....	....	.19	....	....	.38	....	.20	....	.01	.51	....	....	.02	.49	....	....	T.	.02	....	....	2.24
Arcadia[2]	St. Francis	.12	.09	.22	....	....	....	....	....	....	....	....	....	.32	....	....	1.57	.42	....	....	.20	.78	....	....	.58	.10	....	....	....	....	....	....	4.40
Belleview[2]	Meramec	.03	.01	.25	....	....	....	....	....	....	....	....	....	.53	....	....	2.07	T.	.08	....	T.	.89	....	....	.24	.05	....	....	T.	.06	....	....	4.21
Bernie[2]	St. Francis	.42	.08	.22	....	....	....	....	....	....	....	....	....	1.73	.23	....	....	....	....	.22	.42	1.22	....	....	.31	.32	....	....	....	1.41	....	....	6.58
Birch Tree[2] ...½ mile E	Black	.18	....	....	....	....	....	....	....	....	....	....	....	.30	....	....	.58	....	....	....	.12	.81	....	....	.17	.09	....	....	....	.14	....	....	2.39
Black...... 9 miles NW	do	.24	.21	....	....	....	....	....	....	....	....	....	.15	.30	....	.19	1.19	....	.06	.04	.15	.76	....	.12	.20	.06	....	.02	....	.02	....	....	3.71
Bloomfield[2]	St. Francis	.44	.08	.18	....	....	....	....	....	....	....	....	....	.66	....	....	.40	....	.04	.09	.57	1.06	....	....	....	.82	....	....	....	.83	....	....	4.67
Bunker[2]... 4 miles NW	Black	.20	....	....	....	....	....	....	....	....	....	....	....	.25	....	....	1.30	....	....	....	....	.95	....	....	.30	....	....	.05	.02	....	....	....	3.07
Campbell	St. Francis	.25	.12	.05	....	....	....	....	....	....	....	....	.02	.61	.03	.08	....	....	....	.28	.23	1.87	....	....	.06	.26	....	....	....	1.03	....	....	4.89
Cape Girardeau....(A)	Mississippi	1.23	.30	....	....	....	....	....	....	....	....	....	....	.13	....	....	.10	.01	.45	.35	.52	.88	....	....	.18	.62	....	T.	....	.35	....	....	5.17
Cape Girardeau[2]...(B)	do	.82	.15	.18	....	....	....	....	....	....	....	....	....	.15	....	....	.08	T.	.06	.04	.25	1.89	....	....	T.	.75	....	....	....	.34	....	....	4.71
Caruthersville[2]	do	.53	T.	.18	....	....	....	....	....	....	....	....	....	.07	....	.05	....	T	T.	.82	.39	1.03	....	....	....	1.31	.03	....	....	.60	....	....	5.01
Centerville(1)[2]	Black	.15	.11	....	....	....	....	....	....	....	....	....	....	.37	....	....	2.00	....	....	....	....	.81	....	....	.64	T.	....	....	....	....	....	....	4.08
Centerville(2)[2]	do	.15	.20	.16	....	....	....	....	....	....	....	....	....	.31	....	....	2.19	.01	....	....	.24	.60	....	....	.46	.07	....	....	.01	.02	....	....	4.42
Clearwater Dam[2]	do	.15	T.	.09	....	....	....	....	....	....	....	....	....	.21	....	....	.20	....	.05	....	.10	.59	....	....	.04	1.47	....	....	....	.03	....	....	2.93
Cook Station[2]	Meramec	....	.15	.30	....	....	....	....	....	....	....	....	....	....	....	....	.88	....	....	....	....	2.05	....	....	....	....	....	....	....	.55	....	....	3.93
Crane Mountain[2]	St. Francis	.13	....	.07	....	....	....	....	....	....	....	....	....	.19	....	....	.56	....	....	....	.51	.52	....	....	.20	1.03	....	....	....	....	....	....	3.21
Crystal City	Mississippi	.25	.20	T.	....	....	....	....	....	....	....	....	....	.19	....	T.	.57	.02	....	....	.11	1.06	....	.07	T.	.85	....	....	....	.52	....	....	3.84
Cuba	Meramec	.39	.18	....	....	....	....	T.	....	....	....	....	.12	....	....	T.	.51	.03	....	....	1.12	.50	....	....	.43	.06	....	T.	....	.29	....	....	3.63
Deering[2]	St. Francis	.59	T.	....	....	....	....	....	....	....	....	....	....	.30	....	.40	....	....	....	.56	.68	.57	....	....	.20	.82	....	....	....	.71	....	....	4.83
De Soto	Mississippi	.12	*	.26	....	....	....	....	....	....	....	....	.02	....	....	.01	.51	.01	....	....	.30	1.01	....	....	.09	.95	....	T.	....	.48	....	....	3.76
Dexter[2]	St. Francis	.26	.14	.14	....	....	....	....	....	....	....	....	....	.62	....	....	.04	....	.03	.06	.61	1.57	....	....	.03	.68	....	....	....	.22	....	....	4.40
Doniphan(1)	Black	.40	.07	.06	....	....	....	....	....	....	....	....	.38	.41	.08	.75	....	.14	....	.05	1.10	.33	....	....	.03	.55	....	....	....	.05	....	....	4.35
Doniphan(2)[2]	do	.40	....	....	....	....	....	....	....	....	....	....	....	.68	....	.80	....	.09	....	....	.20	1.15	....	....	....	.68	....	....	....	....	....	....	4.00
East End[2]	Meramec	.20	....	....	....	....	....	....	....	....	....	....	....	....	....	....	2.00	....	....	....	....	1.20	....	....	1.20	....	....	....	....	....	....	....	4.60
Eastwood Lookout[2]	Black	.68	....	.14	....	....	....	....	....	....	....	....	....	.84	....	....	.44	....	....	....	.74	1.38	....	....	.10	2.96	....	....	*T.*	....	....	....	7.28
Ellington[2]	do	.10	....	.10	....	....	....	....	....	....	....	....	....	.20	....	....	1.01	....	....	....	....	.68	....	....	.03	.36	....	....	....	.05	....	....	2.53
Ellsinore	do	.25	.31	....	....	....	....	....	....	....	....	....	.06	....	....	....	.90	.30	....	....	.40	....	....	....	.60	.60	....	....	....	....	....	....	3.42
Farmington[2]	St. Francis	.06	.01	.31	....	....	....	....	....	....	....	....	....	.36	....	....	2.25	.38	.37	....	....	.86	....	....	.53	.04	....	....	T.	.06	....	....	5.23
Fisk[2]	do	.58	T	....	....	....	....	....	....	....	....	....	....	.86	....	....	....	....	....	....	.35	.65	....	....	....	.79	....	....	....	T.	....	....	3.23
Fredericktown[2]	do	.18	.03	.26	....	....	....	....	....	....	....	....	....	.15	....	....	.30	....	T.	....	T.	.68	....	....	.05	.48	....	....	....	T.	....	....	2.13
Gerald	Meramec	.36	.22	....	....	....	....	....	....	....	....	....	.04	.04	....	....	.43	.04	....	....	.94	.44	....	....	.59	....	....	*T.*	....	.33	....	....	3.48
Greenville(1)	St. Francis	.24	.15	....	....	....	....	....	....	....	....	....	.28	.03	....	1.27	.17	.06	....	.03	.40	.42	....	.01	....	1.29	....	....	....	....	....	....	4.35
Greenville[2](2)	do	.19	.11	.16	....	....	....	....	....	....	....	....	....	.84	....	....	2.57	.02	.05	....	.19	.72	....	....	T	1.02	....	....	....	.02	....	....	5.39
High Lookout	Black	.20	T.	....	....	....	....	....	....	....	....	....	.46	....	....	....	.40	.16	....	.21	*	.83	....	....	....	.23	....	....	....	.16	....	....	2.65
Jackson	Mississippi	.21	.27	....	....	....	....	T.	....	....	....	....	....	.07	....	....	.14	.03	T.	.11	.26	.82	....	....	.12	.88	....	T.	....	.71	....	....	3.62
Jerome[2]	Gasconade	.46	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.42	....	....	....	....	1.06	....	....	.06	.08	....	....	....	.18	....	....	2.26
Koshkonong[2]	Black	.42	....	....	....	....	....	....	....	....	....	....	....	.80	....	T.	.06	.05	....	....	.20	1.78	....	....	.27	.55	T.	....	....	.10	....	....	4.23
Leeper[2]	do	.17	.04	.15	....	....	....	....	....	....	....	....	....	....	.25	....	.42	T.	.10	.09	.21	.90	....	....	.01	1.00	....	....	....	.02	....	....	3.36
Licking[2]	Gasconade	.28	....	....	....	....	....	....	....	....	....	....	....	.28	....	....	1.10	....	....	....	....	.70	....	....	....	.22	....	....	....	....	....	....	2.58
Macedonia Lookout[2]	Black	.31	....	.08	....	....	....	....	....	....	....	....	....	.59	.03	.02	....	....	.13	....	.12	1.14	....	....	.02	.62	....	....	....	....	....	....	3.06
Marble Hill	Mississippi	.38	.32	....	....	....	....	....	....	....	....	....	.10	*T.*	....	.19	....	.09	....	.63	.17	.82	....	....	....	.92	....	....	....	....	....	....	3.62
Morehouse	do	.52	.15	....	....	....	....	....	....	....	....	....	....	.80	....	....	.06	....	....	.86	.29	.76	....	....	.40	....	....	....	....	.60	....	....	4.44
Moselle[2]	Meramec	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
New Madrid[2]	Mississippi	.54	.07	.27	....	....	....	....	....	....	....	....	....	.38	....	....	.05	....	....	.37	1.76	.80	....	....	T.	.87	....	....	....	.52	....	....	5.63
Oates Tower[2]	Black	.11	.07	.17	....	....	....	....	....	....	....	....	....	.57	.02	....	1.38	....	.16	....	....	.67	....	....	.59	.09	....	....	....	.02	....	....	3.85
Owensville[2]	Gasconade	.47	....	.18	....	....	....	....	....	....	....	....	....	....	....	....	.27	.52	....	....	....	1.28	....	....	....	.83	....	....	....	.28	....	....	3.83
Pacific[2]	Meramec	*.15*	*.07*	*.35*	....	....	....	....	....	....	....	....	....	*.18*	....	....	.34	....	....	....	....	1.30	....	....	....	.75	....	....	....	.35	....	....	§3.49
Parma[2]	St. Francis	.47	....	.33	....	....	....	....	....	....	....	....	....	1.16	.04	....	....	....	.02	.48	.73	1.07	....	....	....	.94	....	....	....	1.00	....	....	6.24
Perryville	Mississippi	1.00	T.	....	....	....	....	....	....	....	....	....	....	....	....	.03	.05	....	....	.33	*	.27	....	....	.21	1.15	....	....	....	....	....	....	3.04
Poplar Bluff[2]	Black	.33	T	.15	....	....	....	....	....	....	....	....	....	1.09	.09	....	....	T.	....	....	.97	.70	....	....	.01	1.29	....	....	....	.63	....	....	5.26
Puxico[2]	St. Francis	.32	.03	.15	....	....	....	....	....	....	....	....	....	.72	....	....	.27	....	T.	....	.47	1.16	....	....	.01	.82	....	....	....	.27	....	....	4.22
Qulin[2]	do	.71	T.	.13	....	T.	....	....	....	....	....	....	....	1.23	.05	.45	....	....	.02	.05	.14	1.16	....	....	.06	.58	....	....	....	.45	....	....	5.03
Reynolds[2]	Black	.14	.12	.18	....	....	....	....	....	....	....	....	....	.58	....	....	2.09	....	....	....	.04	.57	....	....	.27	.08	....	....	....	.04	....	....	4.11
Richwoods[2]	Meramec	.10	....	*.38*	....	....	....	....	....	....	....	....	....	*.15*	....	....	.87	....	....	....	....	1.25	....	....	....	.53	....	....	....	.55	....	....	§3.83
Rolla[2]	do	.35	T.	.08	....	....	....	....	....	....	....	....	....	.08	....	....	.43	.38	T.	....	....	.98	....	....	T.	.10	....	....	T.	.20	....	....	2.60
Round Spring[2]	Black	.30	....	....	....	....	....	....	....	....	....	....	....	.50	....	....	.69	....	.15	....	....	.72	....	....	.70	.22	....	....	....	....	....	....	3.28

Continued on next page

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Stations	Drainage-basins	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Total
Southeastern Division —	*Concluded*																																
St. Louis:																																	
City Office[1], [5]	Mississippi	.05	.11	....	....	.01	....	....	....	....	....	....	.02	....	....	.17	.13	.09	....	....	1.13	.01	....	T.	.23	.05	....	T.	.37	.04	....	.02	2.43
Airport[3], [5]	Missouri	.16	.24	T.	....	.01	T.	....	....	....	....	....	.06	T.	....	.09	.08	.06	....	....	1.66	T.	....	T.	.38	.05	....	.01	.38	.04	....	.01	3.23
St. Louis Univ.[1], [5]	Mississippi	.04	.09	....	....	.02	....	....	....	....	....	....	.02	....	....	.14	.13	.06	....	....	1.02	.02	....	T.	.25	.03	T.	T.	.34	.03	....	....	2.19
Washington Univ.[2]	....do	.10	.02	.27	....	....	....	....	....	....	....	....	....	....	....	....	.22	.04	.04	....	....	.98	....	....	....	.39	....	.06	....	.57	....	....	2.69
Salem	Meramec	.35	.13	....	....	....	....	....	....	....	....	....	.14	....	....	....	1.53	.05	....	....	.58	.21	....	....	.05	.23	....	.04	....	.08	....	....	3.39
Sikeston[2]	Mississippi	.48	.03	.23	T.	....	....	....	....	....	....	....	....	1.09	T.	....	.35	....	....	.16	.34	.91	....	....	T.	.70	T.	....	....	.56	T.	....	4.85
Steelville[2] ...2½ mi. NE	Meramec	.23	....	.10	....	....	....	....	....	....	....	....	....	.30	....	....	.67	T.	....	....	....	1.52	....	....	....	.93	....	....	....	.50	....	....	4.25
Sullivan[2]	....do	.18	.10	.29	....	....	....	T.	....	....	....	....	....	.14	....	....	.43	.01	T.	....	....	1.47	....	....	.01	.79	....	....	.02	.44	....	....	3.88
Summersville[2]	Black	.25	....	T.	....	....	....	....	....	....	....	....	....	.40	....	....	.58	....	T.	....	.06	.89	....	....	.31	.26	....	....	....	.09	....	....	2.84
Union[2] ....1½ mi. SE	Meramec	.19	.09	.51	....	....	....	....	....	....	....	....	....	.31	....	....	.35	....	....	....	....	1.64	....	....	....	.86	....	....	....	....	.19	....	4.14
Valley Park[2]	....do	.09	T.	.24	....	....	....	....	....	....	....	....	....	.03	....	....	.25	T.	T.	....	....	1.17	....	....	....	.52	....	....	....	.50	....	....	2.80
Van Buren[2]	Black	.17	....	.10	....	....	....	....	....	....	....	....	....	.38	....	....	.43	....	.24	....	....	.70	....	....	....	.94	....	....	....	....	....	....	2.96
Vichy[3] .....2 miles NW	Meramec	.36	.17	....	....	....	....	....	....	....	....	....	....	....	....	.18	.55	T.	....	....	1.20	....	....	T.	.17	.05	....	T.	.25	T.	....	.03	2.96
Wappapello Dam[2]	St. Francis	.63	.04	.16	....	....	....	....	....	....	....	....	....	.62	....	....	.28	....	.02	....	.79	.63	....	....	.04	.65	....	....	....	.30	....	....	4.16
Webster Groves	Mississippi	.12	.20	....	....	....	....	....	....	....	....	....	T.	*T.*	....	T.	.29	.08	....	....	.29	.59	....	....	....	.40	....	.01	....	.55	....	....	2.53
Weingarten	....do	.10	.36	....	....	....	....	....	....	....	....	....	....	.10	....	.65	.82	....	....	....	.10	....	....	....	1.10	.12	....	....	....	....	....	....	3.35
West Plains[3]	Black	.35	....	....	....	....	T.	....	....	....	....	T.	.28	T.	.01	.01	....	.45	....	.31	.63	T.	....	T.	.54	.01	....	T.	.17	....	....	T.	2.76
Williamsville[2]	....do	.38	....	.08	....	....	....	....	....	....	....	....	....	.64	....	....	.56	....	.22	....	.63	1.46	....	....	....	.41	....	....	....	....	....	....	4.38
Willow Springs[2] 500 ft E	White	.34	....	....	....	....	....	....	....	....	....	....	....	.42	....	....	.73	....	.22	....	.27	.75	....	....	.63	.31	....	....	....	T	....	....	3.67
Winona Ranger Sta.[2]	Black	.17	....	....	....	....	....	....	....	....	....	....	....	.30	....	....	....	....	....	....	....	.80	....	....	.15	.30	....	....	....	.16	....	....	1.88
Zalma[2]	Mississippi	.30	.04	.18	....	....	....	....	....	....	....	....	....	.23	....	....	.57	....	.12	....	.40	.63	....	....	....	1.18	....	....	....	.15	....	....	3.80
Cairo, Ill.[1], [5]	....do	.45	.16	....	....	....	....	....	....	....	....	....	1.25	....	....	.89	T.	.10	....	.70	.52	.32	....	....	.23	.15	....	....	....	.94	....	....	5.71
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....

Except as otherwise indicated, amounts are for 24 hours ending late in afternoon. [1] Midnight to midnight. [2] Measured in the morning; for the preceding 24 hours. [3] Data for 24 hours ending 12:30 A. M. (C. S. T.) of following day. [5] Recording gage. T. Trace or 0.005 inch or less. * Included in next measurement. // Windshield on gage. Italics data interpolated. § Partly interpolated. (A) Record from cooperative station gage. (B) Record from river station gage. (C) Airport.
‡ Received too late to be included in means and extremes.

Daily Evaporation (inches), Mean Temperature (F°), and Wind Movement (miles) for May 1947

(See precipitation data in daily precipitation table)

Station	Data	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Monthly
Columbia (Univ. of Mo. Hort. Exp. Sta. 9 mi. WNW.)	Evaporation	.293	.142	.155	.308	.182	.187	.218	.199	.165	.176	.278	.254	.253	.246	.298	.087	.179	.163	.198	.109	.160	.214	.102	.040	.143	.178	.142	.233	.355	.185	.260	6.097
	Mean temperature	64	54	60	64	54	60	52	52	48	54	60	67	66	68	75	69	68	64	67	62	58	65	64	56	60	66	66	72	60	54	63	61.6
	Wind movement	141	172	60	65	34	30	103	29	12	40	76	124	166	16	68	11	64	16	36	31	52	52	35	27	68	73	29	43	129	52	79	1,933
Lakeside (Osage Dam)	Evaporation	.279	.324	.112	.200	.275	.221	.277	.215	.234	.254	.274	.262	.211	.247	.278	.153	.101	.166	.128	.217	.007	.207	.299	.085	.044	.186	.201	.175	.425	.195	.203	6.455
	Mean temperature	63	58	62	64	58	64	54	56	52	56	58	62	70	72	71	72	71	68	68	62	60	64	62	62	62	66	70	75	54	56	62	63.0
	Wind movement	85	219	103	43	45	42	88	36	46	48	53	61	115	60	34	47	20	51	15	43	58	43	67	43	70	29	43	39	132	55	39	1,872
St. Louis (Washington University)	Evaporation	.224	.170	.000	.144	.278	.154	.186	.196	.181	.127	.178	.212	.147	.237	.200	.156	.094	.173	.166	.210	.092	.186	.221	.143	.089	.160	.156	.105	264	.180	.174	5.203
	Mean temperature	63	53	60	66	56	62	54	54	50	55	61	68	71	70	75	72	74	68	71	64	60	64	68	64	62	66	68	72	51	56	65	63.4
	Wind movement	33	67	46	24	60	30	64	46	42	26	32	21	50	29	20	9	19	19	19	32	49	22	28	30	43	24	35	13	59	32	18	1,041

Observations taken at 8:00 a. m. except at 5:00 p. m. at Columbia. For Lakeside and St. Louis (Washington University) descriptions see April 1932 and August 1938 reports, respectively. * Included in next measurement.

ERRATA

May 1946, page 34: Date of maximum temperature at Brunswick should be 30th. Mean temperature and departure at Clinton should be 62.3 and −3.2, respectively. Number of days 0.01 inch of precipitation at Kidder should be 15. Date of greatest 24-hours precipitation at Kirksville should be 5–6th. Prevailing wind direction at Nevada should be se. Page 39: Mean maximum temperature at Clinton should be 73.5.

June 1946, page 42: Number of days 0.01 inch of precipitation at Fulton and Trenton should be 3 and 6, respectively. Maximum temperature and date at Marshall should be 97 on 25th.

August 1946, page 58: Number of days 0.01 inch of precipitation at Lexington should be 7. Mean temperature at Sweet Springs should be 75.1.

September 1946, page 66: Mean temperature and departure at Anderson should be 68.4 and −2.6, respectively. Page 67: Mean temperature and departure at Sikeston should be 70.4 and −0.7, respectively. Page 71: Mean minimum at Sikeston should be 57.7.

December 1946, page 94: Evaporation on 6th at St. Louis (Washington University) should be .176. Monthly amount should be 1.148.

Annual 1946, page 99: Evaporation for December at St. Louis (Washington University) should be 1.148. Mean temperature at Sikeston should be 60.2. Page 98: Number of days 0.01 inch of precipitation at Kidder, Fulton, Trenton, and Lexington should be 98, 96, 96 and §59, respectively. Page 102: Mean temperature and departure at Clinton for May should be 62.3 and −3.2, respectively. Mean temperature and departure at Anderson for September should be 68.4 and −2.6, respectively. Page 103: Mean temperature and departure at Sikeston for September should be 70.4 and −0.7, respectively.

January 1947, page 6: Wind movement on 30th at St. Louis (Washington University) should be 69; total movement should be 1553.

Daily Temperatures for May 1947

Stations		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Northern Division																																	
Brunswick /	Maximum	68	59	77	75	65	73	62	63	65	70	76	78	77	89	84	73	77	76	75	63	75	75	67	59	74	67	77	60	56	70	76	71.0
	Minimum	55	52	48	48	44	44	40	40	37	37	44	46	58	55	54	62	63	55	56	55	45	45	52	52	44	44	53	52	36	36	46	48.3
Chillicothe 2 mi ESE (C)	Maximum	65	61	76	73	64	72	62	61	67	71	75	80	76	89	80	70	70	76	73	62	74	72	68	56	75	68	75	58	56	74	74	70.1
	Minimum	50	48	44	47	39	42	35	39	34	42	42	53	54	55	64	60	56	49	53	44	41	51	51	45	40	55	51	37	34	42	51	46.7
Columbia	Maximum	67	57	76	76	67	77	64	63	65	69	78	78	78	88	87	80	80	78	80	65	75	80	62	63	75	73	80	84	54	73	79	73.3
	Minimum	52	50	47	53	44	46	40	44	40	44	46	60	58	52	66	64	61	56	61	50	44	56	55	50	48	60	55	40	39	40	54	50.8
Fayette	Maximum	76	60	76	74	65	74	62	62	64	68	76	76	76	86	82	77	76	76	76	69	73	79	71	58	74	72	78	75	62	71	77	72.3
	Minimum	48	48	48	52	39	46	36	44	37	43	43	58	56	50	64	61	61	52	58	52	45	52	52	51	45	60	51	58	36	38	48	49.4
Grant City	Maximum	75	66	78	75	60	66	62	59	62	69	72	77	76	86	82	71	67	75	71	65	71	69	69	65	76	71	64	62	57	67	71	69.5
	Minimum	48	46	43	44	46	45	33	42	32	45	44	55	53	70	66	57	56	45	57	54	39	53	45	50	42	45	50	33	30	41	50	47.1
Hannibal	Maximum	67	55	73	73	63	71	61	59	60	65	77	78	76	85	83	68	78	76	78	68	70	78	60	60	73	66	70	60	57	69	76	69.5
	Minimum	53	41	46	49	41	47	38	41	37	40	43	59	59	52	63	61	61	52	59	51	45	54	53	47	46	54	48	43	37	41	51	48.8
Kansas City Airport	Maximum	69	67	81	77	69	69	65	64	66	73	75	79	82	89	79	70	70	78	72	62	75	73	68	60	78	70	82	69	58	75	76	72.3
	Minimum	54	53	50	55	46	45	40	47	41	52	54	61	55	55	62	61	61	55	56	53	47	52	51	49	46	60	56	38	35	48	59	51.5
Kirksville	Maximum	75	55	75	73	65	72	64	61	64	68	77	78	75	88	83	70	76	79	75	69	76	75	69	71	77	70	70	64	60	70	72	71.5
	Minimum	50	45	45	49	39	48	35	41	34	39	41	58	56	48	65	59	59	48	56	47	41	54	51	49	42	51	49	37	33	49	47	47.3
Lathrop	Maximum	76	66	78	74	65	72	62	62	66	71	72	77	79	88	77	73	72	75	74	68	75	72	69	63	76	68	75	65	56	71	76	71.4
	Minimum	49	48	44	50	39	50	33	43	34	46	46	57	50	51	61	59	57	50	59	47	42	60	50	51	41	55	52	39	32	42	49	47.9
Louisiana	Maximum	77	60	74	75	67	73	67	61	63	67	78	80	76	88	85	80	76	77	79	68	73	78	75	64	75	72	75	76	64	70	78	73.3
	Minimum	54	46	45	55	43	47	40	36	32	34	35	50	62	46	64	64	62	56	57	51	48	50	56	54	49	60	50	59	40	36	44	49.2
Macon /	Maximum	65	53	74	73	65	71	62	59	63	67	76	78	75	87	84	69	77	76	76	66	73	76	68	57	73	68	75	54	58	69	76	69.8
	Minimum	51	46	46	50	39	44	36	40	34	39	40	56	56	49	55	61	61	51	55	51	44	49	51	53	43	49	49	50	35	37	49	47.4
Maryville	Maximum	67	67	79	76	61	68	60	60	62	69	70	78	74	87	80	72	67	75	72	65	76	70	69	65	77	73	64	63	55	66	71	69.6
	Minimum	47	48	42	50	40	46	33	45	37	49	47	58	52	53	61	56	56	46	56	50	43	56	45	50	42	50	52	35	31	42	50	47.4
Mexico /	Maximum	63	52	72	73	65	70	61	60	63	67	76	77	75	87	86	77	78	77	77	67	71	78	61	61	73	68	77	81	56	69	78	70.8
	Minimum	54	46	46	46	40	43	38	38	33	38	42	55	59	49	57	63	63	54	59	52	44	46	53	54	46	52	52	51	38	39	51	48.4
Moberly / 3½ mi. NE	Maximum	64	68	72	74	63	72	61	60	62	72	75	77	75	86	82	72	75	75	76	66	72	75	64	63	72	68	77	61	67	78	76	71.0
	Minimum	53	46	53	54	38	46	35	43	34	40	44	52	57	49	64	59	63	52	60	51	43	55	51	54	53	53	50	53	36	42	50	49.5
Oregon	Maximum	69	67	80	77	70	69	64	63	64	72	73	79	77	88	83	72	67	75	71	66	76	70	71	66	77	71	72	65	58	72	70	71.4
	Minimum	48	47	45	54	41	47	34	45	38	50	51	59	56	53	61	55	57	50	56	51	45	52	56	47	45	53	52	36	32	45	51	48.8
St. Charles /	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
St. Joseph Airport	Maximum	70	70	82	76	67	72	64	63	66	74	74	80	79	91	80	69	69	76	72	65	77	68	73	59	79	71	72	59	58	72	72	71.6
	Minimum	50	52	45	51	43	42	35	42	34	50	49	60	55	51	64	58	57	50	53	48	43	54	50	46	44	56	53	37	35	47	55	48.7
Trenton	Maximum	78	68	79	75	70	73	70	61	64	70	73	80	77	88	82	71	72	78	76	68	78	72	70	65	77	70	70	64	58	70	74	72.3
	Minimum	48	47	50	54	41	42	38	46	35	44	45	55	56	51	55	61	60	50	60	49	42	57	51	53	42	48	51	47	33	40	50	48.4
Unionville /	Maximum	64	59	73	70	61	66	59	58	62	67	73	77	73	85	78	69	73	75	72	61	75	72	69	56	75	65	65	47	56	68	71	67.5
	Minimum	49	44	44	48	37	44	36	40	33	38	44	53	55	46	57	57	58	47	56	47	41	51	50	47	41	48	48	45	32	38	44	45.7
Warrenton	Maximum	80	60	74	76	73	76	68	59	61	65	78	82	79	85	85	85	81	78	80	71	73	78	72	65	74	74	81	84	81	71	89	75.4
	Minimum	52	45	45	52	39	42	39	44	30	38	36	58	60	48	61	60	63	56	57	52	48	58	54	55	47	59	50	58	38	33	48	49.2
Keokuk, Iowa	Maximum	65	53	73	70	62	66	59	58	62	66	76	81	73	87	81	66	77	78	75	68	74	74	64	58	73	63	63	56	55	66	76	68.3
	Minimum	52	44	45	47	42	45	40	44	38	44	46	64	58	52	65	59	57	54	60	52	46	56	52	49	46	53	49	38	37	44	50	49.3
Southwestern Division																																	
Clinton	Maximum	68	66	79	79	65	77	65	67	68	73	75	75	79	87	79	73	77	76	75	59	75	80	59	57	77	71	83	84	60	75	75	72.8
	Minimum	53	53	47	55	44	47	39	45	38	47	44	60	53	52	62	62	61	57	59	48	45	52	54	51	45	56	58	40	37	39	51	50.1
Eldon	Maximum	84	58	80	81	78	80	76	69	68	72	76	84	78	88	83	78	78	76	79	75	75	79	72	68	75	73	83	84	82	73	77	76.8
	Minimum	53	50	48	53	41	47	39	48	37	42	61	59	58	55	63	62	63	57	59	51	43	50	55	52	48	56	57	62	38	39	50	51.5
Harrisonville /	Maximum	70	69	79	81	72	78	66	67	65	70	74	78	80	86	80	72	73	72	74	57	74	73	63	54	71	71	82	81	59	74	72	72.2
	Minimum	51	44	45	53	42	49	36	47	40	48	48	53	52	56	67	60	60	53	58	54	45	54	50	51	42	50	55	61	34	40	49	49.9
Jefferson City	Maximum	78	60	76	76	68	77	68	64	64	69	78	79	78	86	83	78	80	78	79	71	73	79	74	66	75	72	83	85	80	73	80	75.2
	Minimum	54	50	46	52	41	46	39	45	32	40	42	53	58	48	63	60	63	57	58	51	43	47	55	51	48	51	54	59	39	35	47	49.3
Joplin Airport	Maximum	71	68	78	80	75	78	66	63	71	74	77	72	84	92	77	72	78	79	79	65	76	82	68	67	74	81	84	88	60	76	80	75.3
	Minimum	55	50	47	57	50	54	44	50	45	50	50	58	55	61	62	60	60	54	58	48	45	53	54	53	45	59	62	42	40	41	53	52.1
Lamar /	Maximum	70	67	76	80	74	79	65	62	68	70	73	71	79	88	78	71	77	75	75	61	72	78	62	61	72	78	81	82	58	72	78	72.7
	Minimum	53	48	46	46	49	49	41	42	43	43	48	53	53	51	59	61	61	54	58	58	43	46	55	53	45	48	59	61	37	39	45	49.9
Lebanon /	Maximum	66	60	76	80	74	77	66	69	69	72	75	75	82	90	82	75	78	72	78	62	72	78	70	74	74	79	80	83	60	73	78	74.2
	Minimum	55	47	45	51	43	47	39	42	36	40	40	53	59	56	61	62	61	55	59	57	44	49	55	55	48	49	58	61	37	36	45	49.8
Lexington /	Maximum	68	66	80	80	68	68	65	64	66	72	74	77	82	88	74	68	67	76	71	58	75	72	65	57	77	70	80	66	52	74	74	70.8
	Minimum	52	52	50	50	42	49	38	42	38	46	45	54	55	54	64	62	63	55	62	53	46	55	52	53	45	47	53	55	35	38	45	50.0
Marshall	Maximum	82	65	76	75	69	74	67	62	68	68	75	76	77	87	86	72	75	75	75	72	73	75	73	62	73	69	78	80	68	70	73	73.2
	Minimum	54	50	47	55	42	47	37	45	35	44	67	69	54	54	67	60	62	54	58	51	45	56	50	51	43	58	58	51	35	42	53	51.4
Mountain Grove	Maximum	81	61	75	83	74	78	72	70	67	67	73	74	82	84	84	82	80	75	79	68	72	75	73	74	73	80	79	82	80	74	75	75.7
	Minimum	55	48	47	59	45	51	41	48	40	40	45	54	58	57	61	61	62	60	59	54	47	49	55	57	48	53	59	59	39	36	48	51.5
Neosho	Maximum	85	68	77	82	78	80	73	65	70	72	76	73	85	90	84	80	78	80	80	73	75	82	79	69	75	82	84	85	81	76	80	78.0
	Minimum	57	51	42	53	44	53	45	50	44	49	47	59	57	61	65	60	62	52	59	54	40	48	56	55	47	54	59	63	40	36	49	52.0
Nevada	Maximum	79	69	79	82	81	79	77	65	72	75	73	76	83	92	84	73	78	78	76	72	75	81	79	60	75	75	83	85	80	76	79	77.1
	Minimum	53	55	47	55	48	54	41	51	41	49	48	57	52	55	63	61	62	53	58	53	42	54	52	54	43	56	59	63	37	40	52	51.9
Sedalia	Maximum	80	62	77	77	68	68	68	64	65	70	76	75	78	88	86	76	75	75	75	70	72	78	73	60	73	70	80	83	80	71	78	73.9
	Minimum	53	50	46	54	40	48	37	49	37	42	45	60	54	54	66	61	62	57	60	53	44	55	54	52	46	54	56	62	36	44	54	51.1
Springfield 4 mi. NW	Maximum	67	64	75	79	72	77	65	62	68	68	71	70	80	88	81	74	78	77	77	63	72	76	68	67	73	78	83	83	57	74	77	73.0
	Minimum	51	50	48	55	48	53	41	46	40	46	48	58	57	60	62	61	61	57	59	47	44	51	55	51	48	53	61	40	38	40	51	51.0
Warrensburg	Maximum	81	65	79	77	76	75	70	66	67	73	75	77	81	88	84	75	73	76	74	71	75	75	71	60	76	74	80	83	79	73	78	75.1
	Minimum	53	50	49	57	45	50	39	..	40	46	44	59	53	57	67	60	61	57	61	52	45	56	51	52	44	58	57	62	36	43	55	^{a}50.3
Southeastern Division																																	
Arcadia /	Maximum	70	56	78	83	75	80	68	68	68	70	80	78	86	89	88	84	83	85	82	72	74	78	78	78	75	84	80	84	65	76	80	77.3
	Minimum	56	52	46	48	46	43	43	39	32	32	33	38	58	55	57	60	60	56	56	55	49	44	46	59	50	50	54	57	41	33	37	47.9
Birch Tree ½ mile E	Maximum	80	65	77	83	78	76	74	70	..	..	76	77	84	88	88	81	79	..	..	68	74	75	76	72	74	82	80	84	81	72	..	^{c}77.5
	Minimum	56	48	43	51	42	49	46	42	..	..	37	55	59	54	61	61	64	..	..	54	47	42	49	59	51	46	54	56	41	35	..	^{c}50.1
Caruthersville	Maximum	81	67	78	83	85	73	74	67	67	69	79	83	88	88	88	87	84	86	83	82	75	76	80	77	74	79	81	87	85	69	79	79.2
	Minimum	58	50	48	55	56	56	54	47	50	46	52	57	64	68	64	68	68	64	64	63	54	54	57	65	56	54	59	63	53	49	54	57.1
Crystal City	Maximum	84	59	75	80	78	80	78	69	64	67	82	82	85	87	87	83	83	80	85	77	75	80	81	73	74	82	82	88	83	74	80	78.6
	Minimum	51	48	47	51	45	46	47	43	34	35	35	60	64	51	59	65	68	57	56	60	49	47	55	60	51	52	58	59	42	37	47	50.9
Doniphan	Maximum	77	67	81	89	82	78	70	73	68	70	75	84	90	90	91	89	85	86	86	75	75	79	83	81	75	85	85	87	80	75	84	80.5
	Minimum	58	49	45	49	47	48	49	40	44	33	35	47	61	60	60	64	65	60	63	58	51	42	48	63	55	46	55	55	47	38	47	51.0
Farmington	Maximum	79	56	75	78	70	77	71	64	63	66	78	79	84	77	85	85	81	79	82	72	71	76	80	76	72	83	80	83	77	74	77	75.8
	Minimum	51	46	45	51	43	44	45	41	33	34	38	56	60	56	61	61	65	57	58	57	48	48	56	58	49	51	56	60	40	35	46	50.0
Jackson	Maximum	81	63	77	82	75	74	73	68	67	71	81	85	90	90	90	88	84	84	83	75	74	78	81	78	78	82	81	86	84	72	80	79.2
	Minimum	58	49	48	48	46	45	48	41	34	37	36	55	62	57	61	64	67	59	65	62	49	46	51	63	54	50	57	59	45	38	46	51.6
Poplar Bluff	Maximum	82	61	80	87	78	75	69	70	63	71	81	82	88	88	88	87	81	84	83	74	76	77	80	80	76	81	82	87	80	72	80	78.9
	Minimum	58	52	46	52	51	50	50	43	43	40	39	52	61	60	61	64	67	64	66	61	51	49	51	64	55	51	57	57	48	41	48	53.3
Rolla /	Maximum	64	64	75	75	67	76	62	60	59	69	73	73	79	86	85	72	81	77	75	66	72	70	63	74	71	74	81	85	56	70	72	71.8
	Minimum	54	49	45	56	44	47	40	47	39	39	42	58	60	56	64	61	62	58	59	59	48	49	57	55	48	54	58	63	38	39	52	51.6
St. Louis	Maximum	70	57	72	75	65	77	62	59	61	65	79	82	79	86	86	80	81	76	81	71	72	78	79	70	72	75	82	86	61	72	78	73.7
	Minimum	50	47	50	59	48	54	45	48	40	44	49	62	63	62	67	67	66	61	62	48	48	56	61	53	51	59	57	61	41	49	55	54.3
Salem	Maximum	78	60	76	80	72	79	73	67	67	71	78	78	82	89	88	89	82	78	81	72	72	78	74	78	73	82	80	85	79	75	78	76.9
	Minimum	54	48	44	54	45	44	44	44	35	38	36	57	59	53	61	62	64	57	57	55	49	54	57	56	49	52	57	59	39	34	46	50.4
Sikeston /	Maximum	73	62	72	83	70	75	66	69	64	69	80	75	85	85	88	88	82	85	81	75	73	76	81	76	72	81	81	86	61	71	79	76.3
	Minimum	58	50	48	43	49	50	49	42	40	39	42	55	60	61	65	65	68	65	66	61	51	52	51	62	55	54	56	61	49	41	50	53.5
Union 1½ mi. SE	Maximum	84	63	74	78	77	80	72	67	64	66	81	83	79	88	87	79	84	80	80	74	73	81	74	70	74	78	82	86	81	73	80	77.2
	Minimum	50	48	47	51	42	46	44	42	34	35	35	55	62	50	57	64	66	55	56	50	48	45	55	57	50	52	56	60	40	35	45	49.4
West Plains	Maximum	70	64	78	86	76	78	68	70	68	68	77	77	86	88	86	83	81	78	82	68	73	75	75	77	73	80	80	84	62	74	77	76.2
	Minimum	50	48	47	51	48	51	43	43	38	40	38	56	59	60	58	63	62	57	57	54	48	44	51	56	51	50	56	56	41	37	43	50.2
Cairo, Ill.	Maximum	71	61	75	82	72	73	64	66	63	66	79	85	85	85	88	88	82	85	80	75	74	78	82	74	72	82	82	85	78	72	77	76.8
	Minimum	55	50	52	57	53	54	51	48	46	45	50	60	65	65	67	67	70	69	66	64	53	54	61	67	56	56	61	65	48	48	55	57.4

/ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs. ^{a}, ^{b}, ^{c}, etc., number of days missing, for example, ^{b} indicates two days missing. Italics data interpolated. § Partly interpolated. (C) Airport.

Missouri Storms, May 1947

County	Date	Time	Nature of storm	Storm moved from	Width of path (miles)	Length of path (miles)	Loss of life	Property damage (estimated)	Remarks
Dunklin and Pemiscot	1	Between 5:00 a.m. and 6:00 a.m.	Wind and hail	SW	10	20 to 30 in Missouri	1	$100,000	Storm moved out of northeastern Arkansas into the two Missouri counties where it resulted in the death of one person at Tyler, injury to about 15 others and widespread damage to buildings, outbuildings, trees, and wires. Bulk of damage was in southern Pemiscot County. Towns reported suffering damage were Hornersville and Arbyrd in Dunklin County, and Hollard, Steele, Cooter, Micola, Tyler, Cottonwood, Caruthersville, Hati, and Wardel in Pemiscot County. Storm was accompanied by small hail which did about $10,000 damage to crops in Pemiscot County.
St. Louis City and East St. Louis, Ill..	15	4:00 p.m.	High wind	SW	....	....	0	Minor	High, gusty wind damaged a few buildings, chimneys, roofs, billboards, and trees in St. Louis, East St. Louis, and Madison, Ill.
Dunklin	20	About 7:00 p.m.	Tornado	SW	....	....	0	Unknown	A small, local tornado struck at Kennett and vicinity, wrecked one building in the town and badly damaged two farm dwellings and a barn northeast of Kennett. No one was reported injured.
St. Louis City and St. Louis	28	Between 9:00 p.m. and 11:00 p.m.	High wind	S	....	....	0	Minor	Trees and wires were felled or damaged in various parts of the City and County. Sharp drop in temperature accompanied the windshift from south to northwest.
Audrain	28	Between 8:00 p.m. and midnight	High wind	......	....	....	0	Unknown	Farm buildings, outbuildings, trees, and wires were reported heavily damaged. Storm occurred at Mexico, and to the south of that town. Some livestock were killed.
Caldwell and Jackson	31	....	Thunderstorms	......	....	....	1	$500	An 18-year old boy was struck and killed by lightning while driving a tractor on a farm near Atherton, Jackson County. At Polo, Caldwell County, lightning struck a new brick house; resultant damage estimated at $500.

Time used on this tabulation is Central Standard Time, unless otherwise indicated.

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CLIMATOLOGICAL DATA

MISSOURI SECTION

H. F. WAHLGREN
ST. LOUIS, MO.

Vol. LI June 1947 No. 6

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GENERAL SUMMARY

June averaged both cooler and wetter than normal and it was a very unfavorable month for planting, cultivating, and harvesting of crops and for most field work, except in the southern half of the State, where conditions were more favorable. It will be long remembered for the disastrous floods, in some cases unsurpassed, and for the unprecedented rainfall that occurred during the month over the northern half of the State.

It was the fifth consecutive month of the current year with an average temperature lower than normal and it was also the coolest month of its name, except June 1945, in the past nine years. There were no 100° temperatures recorded anywhere in the State during the month, and daytime temperatures of 90°, or above, occurred on an average of only five days, for the State as a whole. Temperature extremes for the month were not unusual, being well within the all-time extremes previously established for June. All divisions of the State averaged cooler than normal, the deficiency being greatest over the Northern Division. Average temperatures, with departures, by divisions were:—Northern, 70.6°, —1.9°; Southwestern, 73.3°, —0.1°; Southeastern, 73.8°, —0.3°; for the State, 72.6°, —1.0°. A number of stations in the Southwestern and Southeastern Divisions had monthly average temperatures in excess of their respective normals, while each station in the Northern Division averaged cooler than normal. The only general and extended warm period during the month occurred from the 6th to the 10th, while above-normal daily averages occurred for brief periods of a day or two at a time on the 20th, 28th, and 30th, as a rule. The 27th, 28th, and 30th were the warmest days, while the 14th was the coolest day, generally, during the month.

The outstanding feature of June was the unusually heavy rainfall, with resultant widespread and very destructive floods over the northern half of the State. For the State as a whole, it was the wettest June since 1945 and the fourth wettest month of its name in the past 60 years. For the Northern Division this was the wettest June of record, 1888-1947. However, heavier June rainfall has fallen numerous times in prior years in both the Southwestern and Southeastern Divisions. Measurable rain occurred on an average of 13 days, for the entire State, while the average for the Northern Division was 15 days. A number of stations in that division reported rain on 17 or 18 days during the month. A monthly total of 23.60 inches fell at Lathrop this month, which is the second largest amount recorded for any month in the past 60 years, the all-time record being 25.54 inches at Joplin in May 1943. It is a rare occurrence, indeed, when as much as 20 inches of rain occurs in Missouri in a period of one month. The average rainfall for June, by divisions, with departures from normal, was as follows:—Northern, 12.00 inches, +7.08 inches; Southwestern, 7.09 inches, +2.00 inches; Southeastern, 5.49 inches, +1.17 inches; for the State, 8.19 inches, +3.41 inches. Heaviest 24-hour amounts reported for each division were 5.65 inches on the 29th at Lathrop, in the northern; 4.50 inches on the 20th-21st at Lexington, in the southwestern; 3.78 inches on the 1st at Eastwood Lookout, in the southeastern.

As a result of the unprecedented rainfall over the Northern Division, and the already high stages of the major rivers and smaller streams prevailing in that section of the State on the first of June, very disastrous, and in some instances, unprecedented floods prevailed throughout the entire month in portions of the Mississippi and Grand Rivers and during the greater part of the month in the remaining portions of those rivers and in the other rivers of that area. In the Mississippi River, from Keokuk, Iowa to Dam No. 25, the highest stages of record occurred, while at St. Louis the highest stage in 103 years was recorded on the 30th and the crest had not been reached at that time. Flood conditions also prevailed in portions of the Black, Meramec, Osage and St. Francis Rivers, but were not as prolonged or as destructive as those in the northern half of the State, occurring during the last few days of June and continuing into July, as a rule. As a result of these unusually extensive, prolonged, and high floods damage was estimated in the tens of millions of dollars to crops and property, including a very great and irreparable loss of topsoil, through erosion. In addition to the destructive floods in most of the larger rivers and streams of the State, numerous flash floods occurred in the smaller streams and creeks following heavy to excessive local rains or breaks in levies. At Hannibal about 200 families were driven from their homes by a flash flood in Bear Creek

(Continued on page 43)

PRESSURE, WIND, HUMIDITY, AND SUNSHINE

Stations	Sea-level pressure, extremes-inches				Wind				Relative humidity				Percentage of sunshine	Degree days
	Highest	Date	Lowest	Date	Average hourly velocity	Maximum velocity ¶	Direction of maximum	Date	12:30 a. m.	6:30 a. m.	12:30 p. m.	6:30 p. m.		
Columbia	30.16*	3	29.52*	10	7.3	30	w.	30	84*	88*	67*	69*	53	7
K. C. Airport	30.15	30	29.41	10	11.1	37	w.	4	79	84	62	62	54	11
St. Joseph Ap't	30.13	30	29.37	9	9.3	45	w.	4	86	90	67	70	45	15
St. Louis	30.17*	3	29.57*	27	12.2	39	sw.	1	81*	84	67	66*	56	6
Springfield	30.10	30	29.58	10	12.5	56	n.	27	87	90	67	67	62	12
Cairo, Ill.	30.18	30	29.66	1	8.3	43	sw.	1	..	83	65	..	61	0
....	.....	..	.....	..	....	..	......	..	..	..	..	..	..	....

* Data for Airport station. ¶ For 5-minute period.

COMPARATIVE DATA FOR JUNE

Year	Temperature			Precipitation					Number of days			
	Average for State	Highest	Lowest	Average for State	Average, Northern Division	Average, Southwestern Division	Average, Southeastern Division	Snowfall, Average for State	Precip. .01 inch or more	Clear	Partly cloudy	Cloudy
1888	72.6	103	36	5.81	5.98	5.96	5.50	0	7	..	..	..
1889	70.7	100	38	4.66	4.29	4.57	5.13	0	6	..	..	..
1890	77.2	106	44	2.45	3.14	2.49	1.71	0	6	..	..	..
1891	73.2	103	46	6.56	5.61	7.99	6.08	0	13	..	..	..
1892	74.5	100	45	3.09	3.04	3.72	2.52	0	7	15	9	6
1893	72.6	98	40	4.72	4.92	3.91	5.32	0	9	12	12	6
1894	74.5	105	35	3.74	4.28	4.92	2.03	0	7	16	11	3
1895	73.3	100	42	5.87	6.07	6.33	5.20	0	10	12	11	7
1896	72.5	101	45	3.98	3.32	3.63	5.00	0	9	12	11	7
1897	73.6	102	38	6.25	6.49	5.74	6.51	0	12	9	14	7
1898	75.3	100	49	5.92	6.32	6.54	4.90	0	11	13	12	5
1899	74.3	101	42	3.92	3.71	4.83	3.21	0	9	15	10	5
1900	73.3	103	44	5.05	3.71	5.06	6.37	0	10	12	12	6
1901	77.9	106	40	2.02	2.67	1.47	1.92	0	6	18	10	2
1902	70.9	100	37	6.42	6.64	6.95	5.68	0	12	11	10	9
1903	67.3	95	36	3.28	2.96	3.78	3.09	0	9	15	9	6
1904	70.5	93	45	6.68	5.31	8.23	6.51	0	11	12	12	6
1905	75.2	103	42	3.14	2.84	3.06	3.52	0	7	15	10	5
1906	72.7	101	40	4.82	3.28	6.62	4.55	0	10	15	9	6
1907	71.2	97	40	5.47	5.76	6.40	4.24	0	11	14	10	6
1908	72.3	98	43	6.01	6.92	6.78	4.33	0	11	13	10	7
1909	73.9	98	48	5.23	5.96	5.78	3.95	0	11	11	13	6
1910	70.4	99	38	4.11	3.08	4.69	4.57	0	8	16	7	7
1911	78.9	112	43	1.76	0.93	1.59	2.77	0	6	18	8	4
1912	69.5	100	42	4.77	3.31	5.39	5.62	0	9	14	8	8
1913	75.4	107	33	2.55	3.01	2.31	2.32	0	6	18	8	4
1914	79.3	106	43	2.26	3.11	2.50	1.17	0	5	18	7	5
1915	70.8	98	38	6.45	7.53	7.24	4.57	0	12	11	10	9
1916	70.0	100	42	5.86	5.05	6.50	6.04	0	10	14	9	7
1917	71.0	103	35	3.67	5.72	2.20	3.10	0	8	19	7	4
1918	77.2	110	48	3.09	3.04	3.20	3.04	0	7	17	8	5
1919	75.0	104	44	5.58	5.04	6.24	5.47	0	11	14	10	6
1920	72.7	104	41	2.35	3.09	2.14	1.83	0	6	18	7	5
1921	76.6	105	44	5.81	4.74	7.74	4.96	0	12	12	10	8
1922	76.5	108	43	1.61	1.72	1.39	1.72	0	5	19	8	3
1923	73.5	103	45	5.56	5.30	6.52	4.87	0	11	14	9	7
1924	72.5	101	38	7.27	8.53	7.70	5.57	0	14	12	12	6
1925	76.5	103	46	5.99	7.68	4.99	5.31	0	9	15	10	5
1926	70.9	101	37	3.60	5.02	3.79	1.99	0	8	15	9	6
1927	70.3	99	41	5.81	5.38	6.77	5.28	0	10	15	7	8
1928	67.7	91	40	11.25	8.59	11.03	14.12	0	15	8	11	11
1929	71.3	99	39	5.69	6.57	5.98	4.52	0	10	16	8	6
1930	72.4	109	36	3.77	5.17	4.63	1.52	0	7	18	8	4
1931	77.1	107	40	2.75	4.09	1.81	2.35	0	6	19	8	3
1932	75.2	103	47	4.81	5.53	6.09	2.82	0	10	12	12	6
1933	78.4	107	38	1.47	2.89	0.92	0.61	0	3	22	6	2
1934	80.4	108	47	2.82	2.92	2.72	2.83	0	7	17	10	3
1935	69.6	98	39	8.95	6.73	11.06	9.07	0	15	9	12	9
1936	76.5	112	40	1.42	1.30	1.38	1.57	0	4	21	6	3
1937	74.4	105	43	4.93	3.43	5.79	5.56	0	10	14	10	6
1938	72.4	98	44	4.77	4.20	5.04	5.06	0	10	13	11	6
1939	74.6	99	41	5.64	7.70	5.38	3.83	0	12	11	13	6
1940	73.5	98	44	4.36	4.24	5.10	3.75	0	8	13	10	7
1941	74.1	103	43	4.23	4.79	5.12	2.78	0	9	14	9	7
1942	73 3	98	35	7.70	8.01	8.45	6.64	0	14	9	10	11
1943	75.8	101	43	6.39	7.58	7.06	4.54	0	12	12	11	7
1944	76.4	107	39	2.55	2.55	3.48	1.62	0	7	16	10	4
1945	69.5	95	37	8.84	8.22	7.29	11.02	0	14	7	11	12
1946	73.9	104	37	2.72	3.93	2.44	1.78	0	6	17	8	5
1947	72.6	99	39	8.19	12.00	7.09	5.49	0	13	9	11	10
....	....	..	..	....	....	....	....	.	..	..	..	..
Period	**73.6**	**112**	**33**	**4.78**	**4.92**	**5.09**	**4.32**	**0**	**9**	**14**	**10**	**6**

NAT. HIST

Climatological Data for June 1947

Stations	Counties	Elevation, feet	Temperature, in degrees Fahr.							Precipitation, in inches						Number of days				Prevailing direction of wind	Observers
			Length of record, years	Mean	Departure from the normal	Highest	Date	Lowest	Date	Length of record, years	Total	Departure from the normal	Greatest in 24 hours *	Date	Total snowfall, unmelted	With precip., .01 inch or more	Clear	Partly cloudy	Cloudy		
Northern Division																					
Albany	Gentry	930	6	69.4	......	93	28	45	14	13	17.11	+11.87	4.53	5-6	0	13	10	13	7	s.	Curtis E. Graee
Amity	DeKalb	1,007	1	70.3	......	90	28	47	14	12	11.63	+4.63	2.54	22	0	15	11	4	15	se.	O. M. Colhour
Bethany	Harrison	916	52	70.1	− 1.9	90	28	45	14	54	17.89	+12.83	3.45	5-6	0	15	12	4	14	ne.	B. A. McGregor
Brookfield	Linn	767	6	70.8	......	93	9†	49	2†	6	14.35	......	3.80	17-18	0	14	11	7	12	e.	G. F. Breen
Brunswick	Chariton	652	66	70.8	− 2.2	90	9†	52	6†	68	16.30	+11.19	3.45	7	0	14	8	6	16	sw.	O. K. Beneeke
Canton, Lock & Dam 20	Lewis	488	9	70.7	− 1 9	90	30	52	3	17	10.07	+5.29	1.80	19	0	14	9	11	10	s.	Lockmaster
Carrollton	Carroll	754	1	72.6	......	92	28	46	14	1	12.30	......	1.75	5	0	16	9	8	13	s.	Harold E. Finley
Chillicothe 2 mi ESE(C)	Livingston	771	38	70.2	− 2.1	90	9†	48	14	41	15.46	+10.73	2.44	17-18	0	18	5	11	14	se.	Civil Aeronautics Adm.
Columbia	Boone	740	57	72.8	− 0.6	91	9†	51	14	57	7.02	+2.26	1.16	5	0	18	10	10	10	s.	U. S. Weather Bureau
Conception	Nodaway	1,108	58	69.7	− 1.8	91	27†	48	14	63	14.98	+10.03	3.12	5-6	0	16	8	16	6	se.	Fr. Adelhelm Hess
Edgerton	Platte	856	27	70.4	− 1.5	89	8†	43	14	44	15.33	+10.46	4.20	20-21	0	14	9	10	11	s.	Leroy H. Mindrup
Elsberry	Lincoln	449	16	71.3	− 3.1	95	30	43	3	16	6.70	+3.26	0.99	25	0	16	13	6	11	sw.	Soil Conservation Service
Fayette	Howard	760	67	72.0	− 0.8	90	8†	50	3†	64	10.42	+5.85	2.00	20-21	0	15	10	7	13	se.	Irvin E. Schnell
Fulton	Callaway	818	59	71.2	− 2.0	91	9†	49	8†	55	6.40	+2.00	1.21	17-18	0	16	20	6	4	s.	Frank E. Hillgartner
Grant City	Worth	1,134	43	68.8	− 2.0	91	28	45[a]	14	55	16.82	+11.82	2.87	20-21	0	16	10	7	13	e.	J. Homer Korn
Hannibal	Marion	759	55	70.2	− 2.3	92	28	49	14	63	13.28	+9.38	3.46	1	0	16	7	14	9	s.	Hannibal Water Dept.
Kansas City Airport	Jackson	741	58	73.4	− 0.2	94	28	52	13	58	8.19	+3.51	2.23	22	0	14	5	11	14	s.	U. S. Weather Bureau
Kansas City Univ.	Jackson	908	9	73.4	− 1.0	90	9†	50	14	9	8.36	+1.95	1.84	22-23	0	14	12	10	8	sw.	University of Kansas City
Kidder	Caldwell	1,020	55	70.6	− 1.2	89	28	47	14	59	16.08	+11.11	3.68	29	0	16	11	5	14	s.	Mrs. Geraldine Terry
Kirksville	Adair	969	58	69.8§	− 1.9	91	28	46	14	65	19.39	+14 33	3.69	5-6	0	14	18	2	10	sw.	Arthur Lee Jones
Kirksville Airport	Adair	970	8	68.6	......	90	28	47	14	8	17.07	......	4.99	6-7	0	15	3	11	16	s.	Civil Aeronautics Adm.
Lathrop	Clinton	1,071	0	70.9	......	89	28	46	14	0	23 60	......	5.65	29	0	16	11	16	3	s.	E. L. Fisher
Louisiana	Pike	469	53	71.8	− 0.3	92	28	49	3	66	6.09	+1.86	1.14	19	0	15	10	10	10	s.	Stark Bro's Nurseries
Macon	Macon	875	48	69.8	− 2.6	92	28	47	14	54	11.76	+7.04	2.01	1	0	15	12	3	15	se.	John W. Atwell
Maryville	Nodaway	1,169	57	68.6	− 1.2	88	26†	46	14	53	15.35	+10.24	2.49	18	0	17	8	5	17	se.	R. B. Montomery
Memphis	Scotland	787	8	68.4	.....	91	28	46	14	17	13.00	+7.87	2.66	4-5	0	14	7	8	15	se.	John W. Alexander
Mexico	Audrain	800	58	70.4	− 2.8	95	28	49	14	69	7.58	+2.84	1.66	18	0	16	8	9	13	se.	Darrence W. Stuart
Moberly 3½ mi. NE	Randolph	860	10	70.2	− 2.7	90	28	49	3	10	9.02	+4.06	2.39	17-18	0	15	9	13	8	sw.	Robert A. Berg
New Florence, 1 mi SE	Montgomery	885	4	70.8	......	90	28†	50	14	5	7.05	......	1.71	26-27	0	17	5	9	16	s.	U. S. Weather Bureau
Oregon	Holt	1,048	91	70.7	− 1.5	93	28	48	14	91	10.81	+5.44	1.92	11-12	0	17	15	7	8	sw.	James M. Curry
Polo	Caldwell	1,000	1	70.3	......	90	28	47	14	1	21.05	......	4.95	22	0	15	11	15	4	sw.	F. B. Albright
St. Charles	St. Charles	520	59	....	......	..	..	..	..	69	....	......	....	..	....	..	..	..	..	......	....
St. Joseph Airport	Buchanan	957	37	71.6	− 2.1	92	28	49	14	75	11.43	+6.48	3.38	20-21	0	14	10	8	12	s.	U. S Weather Bureau
Salisbury	Chariton	723	1	72.6	......	92	7†	50	14	1	17.13	......	2.87	17-18	0	16	10	12	8	s.	David H. Robertson
Saverton, Lock No. 22	Ralls	472	9	72.0	......	94	5†	54	2†	9	7.86	+2.14	1.93	18-19	0	16	11	7	12	se.	Lockmaster
Shelbina	Shelby	779	6	70.9	......	92	28	47	14	54	12.61	+8.13	2.84	1	0	16	6	12	12	sw.	Guyman Hatcher
Steffenville	Lewis	650	49	70.2	− 2.4	90	28	46	14	54	10.80	+6.26	2.08	5-6	0	14	10	9	11	s.	Mrs. Fannie V. Gross
Tarkio	Atchison	916	44	69.2	− 2.6	97	16	46	14	53	12.23	+7.27	3.22	17-18	0	17	4	9	17	se.	Civil Aeronautics Adm.
Trenton	Grundy	822	51	70.4	− 1.8	90	28	48	14†	52	18.35	+13.31	3.96	4-5	0	14	11	13	6	s.	W. H. Estes
Unionville	Putnam	1,062	54	67.8	− 3.5	90	28	45	14	54	12.24	+7.05	2.90	4	0	14	8	13	9	s.	Mrs. Dora A. Wilson
Vandalia	Audrain	766	3	70.4[g]	......	99[g]	28	45[g]	14	8	8.19	......	1.88	1	0	14	11[g]	3[g]	9[g]	e.	Mrs. Naomi K. Stoutz
Warrenton	Warren	816	65	71.8[b]	− 1.6	92	30	47[c]	3	57	6.96	+8.18	1.98	20	0	16	15	10	5	w	W. T. Zimmerman
Keokuk, Iowa	Lee, Ia.	574	75	69.0	− 3.5	92	28	49	14	75	9.31	+5.18	2 23	6-7	0	14	10	10	10	sw.	U. S. Weather Bureau
Division means	**and extremes**	....	..	**70.6**	**− 1.9**	**99**	**28**	**43**	**3†**	..	**12.00**	**+7.08**	**5.65**	**29**	**0**	**15**	**10**	**9**	**11**	**s.**	
Southwestern Division																					
Anderson 1½ mi sw	McDonald	1,000	43	72.2	− 0.5	91	9†	41	14	48	6.62	+0.69	1.93	23	0	9	17[a]	8[a]	4[a]	sw.	Samuel G. Chamberlain
Appleton City, 2 mi. w	Bates	813	52	73.3	− 1 1	90	19†	50	14	55	8.34	+3.32	1.74	22-23	0	13	10	19	1	sw.	F. Paul Eye
Bolivar	Polk	1,071	44	74.2	+ 1.4	91	30	49	14	52	7.07	+1.76	2.34	23	0	13	5	20	5	sw.	Southwest Baptist College
Boonville	Cooper	650	9	71.2	− 1.4	91	28	51	3	70	7.18	+2.13	1.71	30	0	15	6	11	13	sw.	Boonville Water Dept.
Butler	Bates	865	1	73.7	......	96	6	46	14	6	8.18	......	2.17	22	0	15	4	19	7	se.	Harley W. Johnson
Camdenton	Pulaski	940	1	74.0	......	97	10	48	16	1	10.77	......	2.18	26	0	15	6	22	2	sw.	Mo. Conservation Com.
Carthage	Jasper	962	13	74.3	......	94	19†	46	27	23	5 90	......	1.63	1	0	9	8	22	0	sw.	Carthage W. and E. Plant
Clinton	Henry	786	54	73.5	− 0.3	92	27	49	14	60	9.41	+4.51	2.33	22-23	0	14	8	12	10	s.	U. S. Weather Bureau
Eldon	Miller	934	52	72.8	− 0.2	90	28†	49	14	48	6.96	+2.92	1.10	27	0	15	3	26	1	sw.	Arthur Rothwell
Harrisonville	Cass	904	69	71.8	− 1.3	90	9†	48	14	72	11.44	+6.65	3.04	22-23	0	15	11	3	16	se.	Jeffrey B. Patterson
Jefferson City	Cole	557	57	72.4	− 1.4	92	28	49	3	65	7.62	+3.39	1.99	25	0	21	16	8	6	sw.	K W. O. S. Radio Farm
Joplin Airport	Jasper	988	25	75.4	+ 2.0	95	19	49	14	42	7.01	+1.01	1.83	1	0	14	3	17	10	s.	Civil Aeronautics Adm.
Lakeside	Miller	595	16	73.6	− 1.4	93	7†	51	3	16	6.03	+1.42	1.43	27	0	17	6	14	10	sw.	W. S. Frame
Lamar	Barton	980	59	73.1	− 1.1	90	19†	48	14	66	4.97	−0.57	1.88	30-1	0	7	12	14	4	sw.	Mrs. Marie Mann
Lebanon	Laclede	1,265	59	72.0	− 0.7	90	7†	47	14	60	5.20	+0.03	1.10	30-1	0	17	6	9	15	se.	Mrs. Rosa E. Montelius
Lexington	Lafayette	688	62	71.4	− 1.5	92	9†	47	1	63	17.22	+12.67	4.50	20-21	0	13	14	9	7	s.	Tilton Davis
Lockwood	Dade	1,078	41	75.0	+ 1.4	92	30	49	14	51	6.78	+1.10	4.75	30	0	10	8	22	0	sw.	Hubert A. Nieman
Marshall	Saline	779	60	72.0	− 1.2	92	28	49	14	57	12.71	+7.91	2.00	22-23	0	14	11	14	5	s	Thomas A. Reid
Monett	Barry	1,317	0	72.2	......	90	19	45	14	0	6.39	...	1.62	23	0	8	14	7	9	s.	Mo. Univ. Fruit Exp. Sta.
Mountain Grove	Wright	1,463	46	72.9	+ 1.1	91	19†	49	14	50	4.16	−0.78	1.36	1-2	0	12	12	16	2	se	Mo Fruit Exp. Station
Mount Vernon	Lawrence	1,174	35	74.8	+ 1.5	95	19	45	14	47	6.47	+1.21	1.80	22-23	0	11	10	18	2	s.	James C. Williamson
Neosho	Newton	1,011	60	75.5	+ 1.7	93	19	44	14	64	4.33	−1.64	1.02	23	0	8	15[a]	12[a]	2[a]	sw.	U. S Fisheries Station
Nevada	Vernon	862	54	75.0	+ 1.5	93	19	49	14	55	6.27	+0.82	2 11	26-27	0	11	12	13	5	sw.	Henry Kraft
Ozark Beach	Taney	700	7	75.8	......	95	30	49	14	22	4.66	−1.22	1.37	1	0	9	6	19	5	sw.	Empire District Elec. Co.
Sedalia	Pettis	910	34	73.3	− 0.9	91	28	48	14	36	10.89	+5.61	1.70	29	0	15	11	10	9	sw.	Dr. J. E Caunaday
Seligman	Barry	1,542	46	73.9	+ 1.5	90	18†	46	14	44	3.78	−1.17	1.15	20-21	0	6	14[b]	13[b]	1[b]	s.	Floyd E. Fawver
Seymour 3½ miles NE	Webster	1,642	41	70.6	− 1.1	88	19†	46	14	41	7.03	+1 69	1.48	2	0	9	11	10	9	s.	Ira H. Hailey
Springfield 4 mi. NW	Greene	1,265	59	73.1	+ 1.4	93	30	50	14	59	6.75	+2.07	1.44	26-27	0	14	2	12	16	s.	U. S. Weather Bureau
Sweet Springs	Saline	700	6	72.4[a]	......	97[a]	27	41[a]	14	6	12 44	......	2.68	22	0	16	9[a]	15[a]	5[a]	s	H. F. Nelson
Warrensburg	Johnson	878	60	73.3	− 0.6	91	28	50	14	67	10.10	+5.04	1 83	6-7	0	15	12	11	7	s.	Central Teachers College
Warsaw	Benton	687	46	74.8	+ 1.0	92	27	50	3†	52	9.33	+4.03	1.71	5	0	14	10	13	7	se.	Dora B. Johnson
Wasola	Ozark	1,294	6	73.8	......	93	30	53	13	7	3.06	......	0.68	26-27	0	10	12	14	4	w.	A. W. Pinckney
Waynesville	Pulaski	805	1	....	......	..	..	..	..	1	....	......	....	..	....	..	..	..	..	......	Jesse H. Barlow
Division means	**and extremes**	....	..	**73.3**	**− 0.1**	**97**	**10†**	**41**	**14**	..	**7 09**	**+2.00**	**4.50**	**20-21**	**0**	**13**	**10**	**14**	**6**	**sw.**	
Southeastern Division																					
Advance ¼ mile W	Stoddard	354	10	74.4	− 0.7	94	12	50	14	10	6.13	+1 83	1.39	27	0	9	4	9	17	s.	U. S. Weather Bureau
Arcadia	Iron	926	66	72.1	+ 0.3	95	30	48	1†	69	7.20	+3.06	2.52	25	0	7	6	3	21	e.	Arcadia College
Birch Tree ½ mile E	Shannon	1,000	52	73 6	+ 0.9	92[j]	30	58[j]	18	53	1.72	−2.69	1.24	1	0	3	9[j]	10[j]	1[j]	s.	Mrs. Mildred E. Catlett
Black 9 miles NW	Iron	1,000	54	71.0	− 0.9	92	28†	39	14	54	6.47	+2.41	2.29	25	0	13	6	20	4	sw.	M. L Volner
Campbell	Dunklin	314	21	75.6	+ 0.1	95	12†	50	14	21	5.82	+1.58	1.85	22	0	9	12	16	2	s.	Mrs. Ruth Christian
Cape Girardeau	Cape Girardeau	347	2	75.0	......	92	9†	51	14	47	4.89	+0.59	1.82	27	0	8	13	13	4	sw.	Dr. Robert Martin
Caruthersville	Pemiscot	265	51	77.0	− 1.4	94	12	55	14	55	4 23	+0.42	1.02	22	0	7	13	12	5	s.	Victor T. Malloure
Clearwater Dam	Wayne	648	1	74.0§	......	95	30	43	4	1	4.32	......	2.30	27	0	9	8	6	16	s.	U. S. Engineer Office
Crystal City	Jefferson	420	13	74.6	+ 0.3	97	30	50	3	13	5.32	−0.10	3.26	30	0	10	3	7	20	sw.	Richard K. Ragland
Doniphan	Ripley	344	43	75.5	+ 0.5	96	30	45	14	43	5.69	+1.33	1.10	19	0	10	18	5	7	sw.	Boyce Lackey
Farmington	St. Francois	896	36	72.6	− 0.2	94	30	49	3	50	5.85	+1.97	2.12	27	0	11	6	2	22	s.	F. M. Karsch
Greenville‡	Wayne	460	38	73.2[d]	− 0.4	94[d]	29	43[c]	1	40	8.69	+4.00	3.75	25-26	0	10	14[b]	6[b]	8[b]	nw.	Beuford Shoemake
Jackson	Cape Girardeau	428	56	75.8	+ 1.7	95	30	52	3†	57	5.86	+1.17	1.59	25	0	9	6	18	6	se.	Danny Siebert
Koshkonong	Oregon	958	46	75.4	+ 1.0	94	18†	48	14	47	2.28	−2.22	1.01	27	0	7	12	9	9	s.	Mrs. Genevieve T. Smith
Licking 4 miles N	Texas	1,170	10	70.7	− 2.8	89	19†	46	14	10	3.49	−1.07	0.94	2	0	9	9[a]	7[a]	13[a]	s.	Fern E. Austin

Continued on next page

Climatological Data for June 1947—Continued from preceding page

Stations	Counties	Elevation, feet	Temperature, in degrees, Fahr.							Precipitation, in inches						Number of days				Prevailing direction of wind	Observers
			Length of record, years	Mean	Departure from the normal	Highest	Date	Lowest	Date	Length of record, years	Total	Departure from the normal	Greatest in 24 hours [4]	Date	Total snowfall, unmelted	With precip., .01 inch or more	Clear	Partly cloudy	Cloudy		
Southeastern Division—	*Concluded*																				
Marble Hill	Bollinger	532	52	74.2	+ 0.2	94	12†	47	14	54	6.09	+1.61	2.20	30	0	7	16	9	5	s.	R. A. DeWitt
Poplar Bluff	Butler	339	42	75.8	+ 0.4	96	12	51	14	43	6.64	+2.52	3.24	1	0	8	14	8	8	s.	Osmon M. Richardson
Rolla	Phelps	1,202	47	71.2	− 1.8	89	7	48	14	63	6.86	+2.45	1.42	30	0	13	5	21	4	w.	Rolla School of Mines
St. Louis:																					
City Office		465	110	73.2	− 1.8	94	30	51	3	110	7.39	+3.57	2.22	30	0	19	6	7	17	sw.	**Section Center**
St. Louis Airport	St. Louis	556	10	73.1	− 0.9	94	28†	50	3	16	7.44	+3.15	3.00	30	0	12	5	2	23	s.	U. S. Weather Bureau
St. Louis University	St. Louis City	578	35	72.8	− 2.4	94	30	51	3	35	6.35	+2.76	2.04	30	0	17	11	11	8	se.	St. Louis University
Salem	Dent	1,206	43	73.3	+ 0.9	94	30	49	3†	46	5.69	+1.04	1.78	25	0	9	5	23	2	s.	E. E. Martin
Sikeston	Scott	318	40	75.6	+ 1.3	94	9†	52	14	50	4.54	+0.35	1.50	1	0	10	5	19	6	e.	Mrs. Lucy W. Humphreys
Union ....1½ mi. SE	Franklin	520	9	72.8	− 1.3	94	28†	49	3	30	5.23	+0.93	1.92	26-27	0	15	9	9	12	se.	Cornelius Sieges
Vichy ....2 mi. NW	Maries	1,125	11	72.3	......	92	30	50	14	12	8.52	......	1.44	30	0	13	3	9	18	s.	Civil Aeronautics Adm.
Wappapello Dam	Butler	475	8	74.8	......	94	12	52	14†	8	5.17	+1.23	1.73	27	0	10	16	7	7	s.	U. S. Engineer Office
Webster Groves	St. Louis	507	1	72.8	......	94	28†	47	3	2	6.76	......	1.75	27	0	15	12	10	8	se.	R. W. Lawrie
Weingarten	St. Genevieve	833	6	72.1	......	94	30	47	3	7	4.19	......	1.50	30	0	9	6	20	4	s.	William J. Miller
West Plains	Howell	1,005	10	74.0	+ 0.6	95	30	47	14	10	1.85	−3.11	0.72	1	0	12	2	12	16	s.	U. S. Weather Bureau
Willow Springs 500 ft E	Howell	1,238	6	73.1	......	90	19†	47	14	40	3.90	−0.93	1.85	1	0	10	8	14	8	s	Allen Frazee
Cairo, Ill.	Alexander, Ill.	314	75	76.6	− 0.7	95	30	58	3	76	4.37	+0.54	1.06	1	0	10	5	5	20	sw.	U. S. Weather Bureau
Division means	**and extremes**	.....	..	**73.8**	**− 0.3**	**97**	**30**	**39**	**14**	..	**5.49**	**+1.17**	**3.78**	**1**	**0**	**10**	**8**	**11**	**11**	**s.**	
State means	**and extremes**	.....	..	**72.6**	**− 1.0**	**99**	**28**	**39**	**14**	..	**8.19**	**+3.41**	**5.65**	**29**	**0**	**13**	**9**	**11**	**10**	**s.**	

The departures from normal temperature are computed from the averages of the entire period for stations having 10 or more years of record. Departures of precipitation for stations with 15 years or more of record are computed from a normal or "standard mean", adjusted to a uniform 35-year period; for stations of 10 to 14 years the means for the period of record are used. The normal may be found by adding the departures when minus (−) or subtracting when plus (+). Figures and letters following stations indicate distance in miles and direction of station from the city Post Office, unless otherwise indicated. T. Trace or 0.005 inch or less. [a], [b], [c], etc., number of days missing; for example, [b], indicates two days missing. Italics data interpolated. § Partly interpolated. † And other dates. ‡ Received too late to be included in means and summaries. [4] Best available used for stations not equipped with recorders. Post office address of: Altona is Adrian; Clearwater Dam is Piedmont; Crane Mountain is Arcadia; East End is Goodland; Eastwood Lookout is Van Buren; Hailey is Cassville; High Lookout is Birch Tree; Macedonia Lookout is Doniphan; Oates Tower is Centerville; Perry is Center; Pineview Lookout is Cape Fair; Sugar Camp Lookout is Seligman; Topaz is Cabool; Wilderness Lookout is Lampe. (C) Airport. ¶ Indicates plus.

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following an excessive and heavy rainfall of 3.46 inches in approximately 17 hours on June 1st. At Poplar Bluff, low areas in the city and over the county were flooded following a heavy and excessive downpour of 2.62 inches in a period of about 45 minutes, between 6 and 7 p. m. on the 1st; a total of 3.24 inches occurred in less than 17 hours. Streets, basements and homes were flooded and gardens and crops in lowlands were destroyed or seriously damaged. Older residents report they could not recall a heavier rain in so short a period of time since the Poplar Bluff tornado of May 9, 1927. Damage, estimated at several thousand dollars, from this flash flood was not caused by Black River but from water running off the hills into the valleys.

A number of destructive storms, mostly of a local nature, occurred during the month and these are described in detail elsewhere in this issue.

The wet, cool weather during June was favorable for the wheat, oats and hay crops as well as pastures and all grasses and these made good progress and development over the entire State, except on bottom land where overflows and flood conditions prevailed, particularly over the northern half. Harvesting of wheat and barley was in progress in the southern half of the State the latter part of the month and a few early fields of oats had been cut by the close of June. However, frequent showers interfered with cutting and combining of these crops and the cutting and curing of the hay crop, with some losses to the latter crop. Most of the corn crop in the southern half of the State had been planted and cultivated once or twice by the end of the month, but over much of the northern half much corn remained unplanted and considerable replanting remained to be done at that time. Since most bottom lands along the larger streams and rivers in that area were flooded, or had been flooded and were not dried out sufficiently to be worked, much of that land would necessarily have to remain idle due to the lateness of the planting season for most crops. Most upland corn that had been planted during the month, or earlier, in the northern half of the State was becoming grassy and weedy from lack of cultivation which was delayed by the frequent rains and wet fields. The soybean crop was in about the same status as corn although there was still time for this crop to mature if fields became dry enough for planting soon after the close of the month. Cotton in the southeastern counties made fairly good growth and development during the month with chopping being completed and cultivation in progress, although cultivation was hindered by rains during the last week. Pastures were in very good condition throughout June and provided excellent grazing for livestock. The tomato crop was very promising in the southern portions of the State at the end of June. Fruit prospects, generally, continued very promising at that time, although later than normal. Warmer and drier weather was badly needed over most of the State, except the southwestern quarter, as the month closed.—M. R. W.

TEMPERATURE

The monthly mean for the State, 104 stations reporting, was 72.6°, or 1.0° lower than the 60-year June average. The highest monthly mean was 77.0° at Caruthersville, and the lowest was 67.8° at Unionville. The highest reported was 99° at Vandalia, on the 28th, and the lowest was 39° near Black, on the 14th.

PRECIPITATION

The average for the State, 210 stations reporting, was 8.19 inches, or 3.41 inches more than the 60-year June average. The greatest monthly amount was 23.60 inches at Lathrop, and the least was 1.72 inches at Birch Tree. The greatest amount reported in 24 hours was 5.65 inches at Lathrop on the 29th. The average number of days with 0.01 inch, or more, was 13. There was no snowfall reported.

MISCELLANEOUS PHENOMENA

Aurora.—13th; observed locally at Cuba.

Earthquake.—On 29th, at St. Louis and suburbs; light intensity.

Floods.—In Black River, at Leeper, on 28th; at Poplar Bluff, 16th to 30th. In Grand River, at Brunswick, continued from May into July; above Brunswick, at frequent intervals throughout the greater part of the month. In Meramec River, at Valley Park, on 28th and continued into July. In Mississippi River, in the reach from Keokuk, Iowa, to Dam No. 25, continued from May into July; in the reach from Grafton, Ill., to Cairo, Ill., June 5th and continued into July, except on the 10th and 11th at Cairo, Ill.; in the reach below Cairo, Ill., to Caruthersville, June 12th to 25th. In Missouri River, at Waverly and below, June 7th and continued into July, except at Boonville where the flood began on June 5th; in the reach from St. Joseph to Waverly, June 13th and continued into July; also, at St. Joseph on June 7th and at Waverly on June 4th. In Osage River, at Lakeside, June 28th and continued into July. In St. Francis River, at Fisk, on June 30th and continued into July.

Fogs.—Heavy, 3d, 4th, 7th, 19th, 20th, 25th, 26th.

Hail.—Light, 1st, at Martinsburg, Shelbina, Pierce City, Oregon, and near Oak in DeKalb County; 6th at Warrensburg and near Excelsior Springs; 17th, at Chillicothe Airport and Kirksville Airport; 18th, at Kidder, Maryville, and Tarkio; 25th, at Hannibal and Ferguson; 26th, at Columbia and Affton; 27th, at Lockwood, Monett, Springfield, and Rolla; 28th, at Chillicothe Airport and Farmington; 30th, at Fayette, Grant City, Caplinger Mills, Marshall, and Warrensburg. Moderate, 1st, at High Lookout; 6th, at Bethany and Edgerton; 27th, at Cassville, Oats Tower, and Harviell. Heavy, 1st, in Howell County; 30th, south of Browning. (See special storm table).

Tornadoes.—On 1st in Howell County; 4th, at Oak, DeKalb County; 6th, near Excelsior Springs; 27th, at Harviell; 30th, at Kingsville and Holden. (See special storm table).

Windstorms.—1st, 5th, 7th, 8th, 20th, 25th, 27th, 29th, 30th. (See special storm table).

Daily Precipitation for June 1947

Stations	Drainage-basins	Day of month																															Total
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	..	
Northern Division																																	
Albany	Grand	.88			T.	1.52	4.53					.07	1.85	.34				.12	1.89	.38	.22	1.97		2.51						.83	T.		17.11
Amity	do	.74	T.		T.	.47	.74	.29			T.	.03	1.48	T.				.21	1.16	.35	.69	2.47	T.	2.54				.03		.41	.02		11.63
Auxvasse	Missouri	1.05	.02	T.		.86	.40	.15			.03			.41				.52	.78	.02		.34	.12	.05		.62		1.38		1.50	.26		8.51
Bethany	Grand	1.43	.02			2.40	3.45				.02	T.	.85	.82				.17	2.04	.59	.17	2.16		2.88						.87	.02		17.89
Bowling Green[2]	Mississippi	*	.60			.50	.27	.75										.23	.76	1.07	.31	.19				.06	.15	1.49	.05	.28			6.71
Brookfield[2]	Grand	.84	1.18			1.57	1.30	.15			.28			1.30	.65				3.80	1.08		.65	.39	.35						.81			14.35
Browning 3 mi. NE	do	1.07			T.	3.01	4.92	0.25				.02	2.99	.51				.68	1.95	1.10		1.25	T.	.97				T.	.03	.33	.65		19.73
Brunswick[2]	do	.33	.68			2.20		3.45					.15	.84					1.43	3.08		.85	1.05	.54			T.	.65		.93	.12		16.30
Canton, Lock No. 20[2]	Mississippi	.43	.08			1.15	1.40	1.37					T.	1.00				.71	.23	1.72	.08		.74	.05			.01			1.10			10.07
Carrollton	Missouri	1.20	.01			1.75	.44	1.25					.23	.65				.30	1.40	1.19	.05	.70		.31				.33		1.54	.95		12.30
Centralia[2]	Mississippi	*	.44			.80		1.14						.32					1.64	1.19	T.	.33				.38		.71	.07	1.24			8.26
Chillicothe[2] (B)	Grand	1.12	1.22			2.07	.65	.53					.38	.41				T.	1.23	.72	T.	1 67	.77	1.89				T.	T.	1.10	.05		13.81
Chillicothe[3] 2 mi ESE (C)	do	1.66	T.		1.10	1.05	1.63					.29	.60	.01				1.26	1.68	.14	.81	1.49	1.50	.13				.01	.38	.99	.83		15.46
Columbia[1, 5]	Missouri	.51	.01			1.16	.44	.20	.07		T.		.03	.40				.14	.45	T.	.44	.01		.11		.38	.33	.79		.93	.62		7.02
Columbia[5] .9 mi. WNW	do	.65	.03	T.		1.92	.30	.24			T.			.31				.11	1.01	T.		1.21	.01	.32		.29		1.04		1.18	.79		9.41
Conception	do	.63	.18		T.	1.18	3.12				.04	.04	1.67	.76				.52	2.12	.15	.34	1.86	1.52	.11				T.	T.	.74			14.98
Edgerton[2]	do	.30	.39			.50	.30	1.73					.37	1.23				.50	.35	T.	T.	4.20	T.	2.83		T.		1.40		.88	.35		15.33
Edina[2]	Mississippi	.44	.42			1.52	3.30	2.04					.25	1.63					1.07	2.35	.04	T.	.60	.13	.04	.38				.74			14.85
Elsberry S. C. S.[2]	do	.74	.60			.27	.80	.24				.23		T.					.64	.47	.04		.05		.08	.90	.09	.74	.12	.69			6.70
Fayette	Missouri	.77	.02	T.		1.70	.25	.38						.28				.20	.76	.30		2.00	T.	1.08		.17		1.33		.43	.75		10.42
Fulton[2]	do	.17	.51			1.01	.08	.47				.18		.30				.18	1.03	.86		.62	.01	.02	T.	.31				.61	.04		6.40
Gallatin[2]	Grand	.68	.25			1.86	.94	.23			T.		1.23	1.03				.23	3.67	.31	.29	2.09	3.26							1.85	T.		17.92
Grant City	do	1.01	.03			2.60	2.45				T.	.10	1.51	1.17				.20	1.26	.24	.14	2.87	.87	.47						.64	1.26		16.82
Hannibal[1] (A)	Mississippi	3.46	T.		T.	1.00	.65	.75						.51				65	1.43	1.41	.04	.64		.10	.17	.88		.07		.87	.65		13.28
Hannibal[2] (B)	do	2.00	.21			.80	.23	1.05						.52				T.	.94	3.27	.04	.12	1.11	.15		.21	.78	.07		.56			12.06
Hermann[2]	Missouri	.03	.63			.90		.40	.30			.03							.96	.25				.43	.04		.41	.98	.40	.08	.41		6.25
Kahoka[2]	Mississippi	.18	.06			2.13	1.31	1.40				.03	.13	1.51				.74	.21	1.30			.42	.03	.07					1.65			11.17
Kansas City Airport[1, 5]	Missouri	.31			.03	1.01	1.00					.20	.52					.07	.64	.02	1.74	.08	2.23					.30		.04	T.		8.19
Kansas City University	do	.80				.84	.89	.11				T.	.15	1.23				.15	.38	T.	.83	.81	.22	1.62				.31		T.	.02		8.36
Kidder[2]	Grand	.68	.44			1.12	.61	.50					.57	.98				.10	1.23	.73	.02	2.37	.11	2.94						3.40	.28		16.08
King City	Missouri	.74				.70	1.30	.22	T.		T.	.30	.92					.13	1.30	1.28	.47	4.35	4.35	.21						1.51	.03		17.81
Kirksville	Mississippi	2.28				2.24	3.69	.60					1.85	3.05				1.37	1.44	.93		.36		.70			.02			.59	.27		19.39
Kirksville Airport[5]	do	1.62	T.		1.00	.85	4.98	.01				T.	1.50	.26				1.58	2.18	1.05	.04	.39	.23	T.						.64	.74		17.07
LaBelle[2]	do	.30	.16			1.20	1.67	2.01					T.	.60					.80	1.35	.05	T.	.60	.10			.45			.83			10.12
Lathrop	Grand	.46				.44	.83	1.85				.18	.29	.55				.32	.72	1.40	.55	4.40	T.	4.14				1.77		5.65	.05		23.60
Linneus	do	2.02	.04			2.13	1.33	.15				T.	.39	.93				.51	2.85	.47		.86		1.13					.34	.59	1.05		14.79
Louisiana (A)	Mississippi	.52	.04			.58	.41	.51										.33	.72	1.14	.26	.07		.02		.41	.02	.45			.61		6.09
Louisiana[2] (B)	do	.32	.24			.65		1.01										.01	.55	1.74	.15	.71	.07				.68	.52		.37	.08		7.00
Lucerne[2]	Grand	.50	T.			2.95	1.80	.20					1.74	.96					2.60	.95		.20	1.00	1.85				.80		.92			§16.47
Macon[2]	Chariton	1.34	.67	T.		1.25	.57	1.70					.17	.58					1.11	1.86	.02	.81	.57	.34				.04		.73			11.76
Madison[2]	Mississippi		.33			.95		1.65						.57					1.32	1.40		.30						.55		.97			8.04
Martinsburg[2]	Missouri	.77	.40			.75	.05	.51				T.		.21					.88	.44	.04	.20		.03	T.	.88	.22	.49	.12	.56	.21		6.76
Maryville	do	.97			.50	.95	2.24				.10	.08	2.11	.30				.55	2.49	.07	.13	1.97	1.45	.17						1.25	.02		15.35
Memphis[2]	Mississippi	.23	.18			2 66	1.38	1.67					.36	1.75					.35	1.18	T.		2.00	.12	.24		T.	.15		.73			13.00
Mexico[2]	do	.54	.31			.51	.02	.73						.58					1.66	1.05	.02		.05			.41	.15	.56	.09	.76	.14		7.58
Milan[2]	Grand	.40	.33		T.	2.31	5.01	.15	.34				1.58	1.89					2.03	.77		.39	.68	1.76						.55			18.19
Moberly[2] 3½ mi. NE	Mississippi	.09	.29			1.02		2.11	.10					.60				.02	2.39	.82		.12	.07	.18		.03		.43		.75			9.02
Monroe City	do	1.99				.76	.81	1.22			.12			.26				.28	1.22	1.86	.29	.12				.35		.54		.57	.11		10.50
New Florence[3, 5] 1 mi SE	Missouri	.40	.01			.65	.22	.05	T.		.10			.01				.29	1.11	T.	.42	.25	T.	.11		.47	.13	1.58		.70	.55		7.05
Oregon	do	.33		T.	.21	.62	1.36	.36				.04	1.92	.03				.27	1.58	.22		1.32	1.59	.20		.02		.07		.67			10.81
Palmyra[2]	Mississippi	*	2.40		.02	1.02	.27	1.26						.43					.84	2.22		.14	.21	.62		*	.92	.06		1.04			11.45
Paris[2]	do	.18	.34			.56	.02	1.84						.27				T.	1.13	1.60	.07	.10				.10		.80		.91			7.92
Perry 1 mile E	do	.67				.60	.35	.70						.27				.17	1.30	1.18	1.15	.16				*	.22	.45		.60	.22		8.04
Philadelphia	do																																....
Polo[2]	Missouri	.72	.48			.70	.51	1.72					.30	.53				.30	1.00	1.73	.01	3.05	T.	4.95				.95		4.10			21.05
St. Charles[2] (A)	do																																....
St. Charles[2] (B)	do	.07	1.05	T.	T.	.21	.17	.09	.24			T.		T.	T.			.05	.15	.14	T.	.14	.04	T.	.09		.54	1.10	.60	.35	.02		5.05
St. Joseph Airport[1, 5]	do	.34		T.	.29	.27	.88	T.			T.	1.33	.68					.44	1.04	.05	2.50	.90	2.24			T.		.04		.43	T.		11.43
Salisbury	Chariton	1.01			.30	1.79	.30	2.54	.30				T.	.88				.30	2.87	.85	T.	.82		.39		.15		.73		1.09	2.81		17.13
Saverton, Lock No. 22[2]	Mississippi	.65	.26			.61	.10	1.15						.13				T.	.77	1.93	.05	.01	.06	.17	T.	.11	.85	.10		.91			7.86
Shelbina	do	2.84			.24	.95	.71	1.31						.50	T.			.74	1.42	1.01	.22	.87		.04		.70		.11		.68	.27		12.61
Shelbyville[2]	do	1.78		.24		1.12	.51	1.43						.27					1.63	2.09		.37	2.00				.23	.05		.53			12.25
Steffenville	do	.83	T.		.01	.99	2.08	.97					.07	.30				.13	1.80	1 69		.96		.14				T.		.80	.03		10.80
Tarkio[3]	Missouri	.34			.87	.19	.94			.04	.07	.39	2.41					.58	2.97	.32	.33	.53	.87		T.	T.		T.	.75	.02	.61		12.23
Trenton[2]	Grand	1.50	.36			3.96	2.78	.22					1.96	.62				.06	2.04	1.14	T.	1.01	.19	.62						1.89			18.35
Troy[2]	Mississippi	.07	.56	T.		.30	.07	.10				T.							*	*	*	1.75	.	.03	T.	.15	.30	1.15	.40	.25	.10		5.23
Unionville[2]	Chariton	.14	.40			2.90	1.02	.43					2.10	1.50					1.00	.42	.05	.81	.67	.21						.59			12.24
Vandalia	Mississippi	1.88	*			*	*	1.35						.28				T.	1.36	.90	.80	.37		.02		.18		.60		45			8.19
Warrenton	do	.19	.16	T.	T.	.51	.10	.03	.02		T.	T.		T.				.14	.37	.18	1.98	.08	T.	.19		.44		1.68		.25	.64		6.96
Keokuk, Iowa[1]	do	.43	T.		.47	1.16	1.86	.40			T.		.03	1.19				.84	.50	.47		.57		T.	.07	T.	T.			1.08	.24		9.31
Southwestern Division																																	
Altona[2]	Osage	.75				1.05	.60	.69	.54					T.								T.		2 00		1.19		.75			.15		7.72
Anderson[2] 1½ mi. SW	Neosho	.90										1.31		.06								.33	.42	1.93	T.		.40	1.24		.03			6.62
Appleton City 2 mi. W	Osage	.74				1.23	.12	1.00	.42				T.	.53							.03		.26	1.48		1.00	T.	.98		.09	.46		8.34
Ava Ranger Station[2]	White																																....
Bolivar	Osage	.86	T.			.84			.12		T.	.69		.85						.03	.13	T.		2.34		.02	.10	1.05	.03	.11			7.07
Boonville[2] (A)	Missouri	.30	.68		.01	1.53	.05	.80						.33				T.	.52	.19		1.01		.40		.32		.65		.37	.02		7.18
Boonville[2] (B)	do	.33	.71			1.39	.06	.82						.34					.52	.19		.70	.28	.53		.30		.60	.06	.40	.03		7.26
Bradleyville[2]	White	1.10	.47									.59		.39										1.04	.13		.46	.31	.62				5.11
Buffalo[2]	Osage	.30	.39			.52	.20	.10	.25			.29		.49							.15	.53		1.74		.17		1.04		.04	.56		6.77
Butler	do	.79	T.	T.		1.24	.60	.83	.49				.01	.51							.16	.06	T.	2.17		.72	.01	.46		.06	.07		8.18
Camdenton	do	.71	.21			.62		.16	.67			1.87		.46							.34		.18	.41		1.07		2.18	.27	1 05	.67		10.77
Caplinger Mills[2]	do	*	.90			.28	.09	.14	.21			.17		.85							.03	.83		3.56		.02		.89		T.	.07		8.04
Carthage	Neosho	1.63									.57	.05		.62								.23		.70			1.39	.61	.10				5.90
Cassville[2]	White	1.38	.09									.89	.03	.33								.98	.30	.67		.03	.06	1.87			T.		6.63
Chadwick[2]	do	.90	.88																					1.40	.07		.10	.35	.60				4.30
Clinton[3]	Osage	.70				1.48	.38	.21	.58				.48	.02				T.	T.	T.	.62		1.90	.43		.66		1.28		.18	.49		9.41
Concordia	Missouri	1.49			.20	1.21	.71	1.60	.02					.91				.20	.23		1.38		T.	1.34		.31		.60		1.08	1.65		12.93
Crocker	Osage	.22				.78		.04		.22		.66					T.	.18			.04		.69	.22		1.00		2.12	.05	.98			7.20
Eldon	Missouri	.65	.07			1.05	T.	.65	.10			.05		.50				T.	.10		.17	.05	T.	.40		1.03		1.10		.99	.05		6.96
Eldorado Springs	Osage	.66			.84			.04	.49		.44			.57						T.	.96	.06	.08	1.71			.08	1.07		T.	T.		7.00
Elijah[2]	White																																....
Forsyth[2]	do	.55	.77									.46	.10	.50								.08	.04	.96				.55	.60				4.61
Galena[2]	do	.85	.47									.35	.02	.31							.27	.15	.19	1.50				1.30			.35		5.76
Granby[2]	do	.96										.67		.17								1.05	.27	1.28			.11	1.40	T.	.05			5.96
Hailey	do	.23									2.10										.24	.28		.98			1.09			1.10			6.02
Harrisonville[2]	Osage	.55	.39			.73	.50	1.19	.44				.01	.54				.06		.04		1.81		3.04		1.32		.70		T.	.12		11.44
Jefferson City[2] (A)	Missouri	.23	1.22	.01	T.	1.20	.11	.28	.18			.05	T.	.22	.01				.05	.03	T.	.35	T.	.18	.01	1.73	.26	.66	.15	.57	.12		7.62
Jefferson City[2] (B)	do	.09	1.00			1.16	.13	.29	.16			.01		.19					.13	.02		.34	.01	.22		1.64	.20	.69	.03	.36	.06		6.73

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Daily Precipitation for June 1947—Continued from preceding page

Stations	Drainage-basins	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	..	Total
Southwestern Division—	*Concluded*																																
Joplin Airport[1]	Neosho	1.83	....	....	....	.05	....	....	....	....	.72	T.	.27	.23	....	....	T.	....	....	....	.47	.08	.69	.10	....	.03	.92	.37	.06	....	1.19	....	7.01
Lakeside[2, 5]	Osage	.58	.22	....	....	.85	.38	.01	.18	....	....	.29	....	.49	....	....	....	....	T.	....	....	.13	....	.35	.11	.50	.07	1.37	.06	.16	.28	....	6.03
Lamar[2]	Neosho	.94	....	....	....	T.	.48	....	T.	....	....	T.	....	.68	....	....	....	....	....	....	.78	.12	....	1.32	....	....	....	.65	....	T.	....	....	4.97
Lebanon[2]	Osage	.32	.16	....	....	.15	.45	.76	*	.32	....	.34	....	.35	....	....	....	....	....	....	....	.33	....	.39	....	*	.11	.87	.17	.20	.28	....	5.20
Lexington[2]	Missouri	.60	1.50	....	....	2.30	....	2.35	....	....	....	....	.18	.62	....	....	....	.18	.45	.64	....	4.50	....	1.00	....	....	....	.40	....	2.50	....	....	17.22
Lockwood	Osage	1.13	....	....	....	.70	....	....	....	....	.32	....	....	.50	....	....	....	....	....	....	....	.17	.07	1.65	....	....	.98	1.24	.02	T.	T.	....	6.78
Mansfield[2]	White	1.40	.60	....	....	....	....	.30	....	....	.61	....	....	.18	....	....	....	....	....	....	.16	.21	....	.45	....	.03	.05	.80	.30	.55	....	....	5.64
Marshall	Missouri	.83	....	....	.14	1.65	.98	T.	....	....	....	....	....	1.06	....	....	....	.11	.68	.28	....	.73	....	2.00	....	.23	....	1.08	....	1.03	1.91	....	12.71
Marshfield[2]	White	.72	.31	....	....	....	....	.02	.23	....	....	.80	....	.49	....	....	....	....	....	....	T.	.15	T.	.83	T.	.05	.02	.94	....	T.	.07	....	4.63
Monett[2]	Neosho	1.07	.24	....	....	....	....	....	....	....	....	1.02	....	.09	....	....	....	....	....	....	....	.60	.23	1.62	....	....	T.	1.52	....	....	....	....	6.39
Mountain Grove[2]	Gasconade	.65	1.36	....	....	....	....	.09	.02	....	....	.22	....	.16	....	....	....	....	....	....	....	.09	....	.52	....	....	.06	.88	....	.05	.06	....	4.16
Mount Vernon[2]	Neosho	.82	.08	....	....	....	....	....	....	....	....	1.71	....	.20	....	....	....	....	....	....	....	.25	.14	1.80	.03	....	....	.35	1.05	.04	....	....	6.47
Neosho	do	.95	....	....	....	....	....	....	....	....	.01	.84	....	.11	....	....	....	....	....	....	T.	.52	....	1.02	....	....	.85	.03	....	....	....	....	4.33
Nevada	Osage	.96	....	....	....	.59	....	.07	.25	....	T.	....	....	.51	....	....	....	....	....	T.	....	.16	.07	1.48	....	.07	.18	1.93	....	....	....	....	6.27
Osceola[2]	do	.57	.05	....	....	.92	.03	2.55	.09	....	....	.20	....	.50	....	....	....	....	....	T.	....	.13	....	1.63	....	.54	....	.84	....	.02	T.	....	8.07
Ozark[3]	White	.82	1.01	....	....	....	....	....	....	....	....	.93	....	.31	....	....	....	....	....	....	....	.13	....	1.51	....	....	....	.21	.07	....	....	....	4.99
Ozark Beach[2]	do	.90	.47	....	....	....	....	....	....	....	....	.42	.12	.53	....	....	....	....	....	....	....	.11	....	.85	....	....	....	1.21	.05	....	....	....	4.66
Pierce City[2]	Neosho	.88	.09	....	....	....	....	....	....	....	....	1.63	....	.26	....	....	....	....	....	....	....	.30	....	1.63	....	....	.27	1.77	....	....	....	....	6.83
Pineview Lookout[2]	White	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Pleasant Hill[2]	Osage	.77	.47	....	T.	.72	.03	1.80	.33	....	....	....	.03	.88	....	....	....	.11	*	.11	....	2.31	....	2.66	....	.60	....	.77	....	.02	.16	....	11.77
Roby	Gasconade	1.00	.04	....	....	.15	....	.30	.41	....	....	.68	....	.20	....	....	....	....	....	T.	....	.21	T.	.20	....	.20	....	1.00	T.	1.81	....	....	6.20
St. Thomas[2]. 2¼ mi SW	Osage	.23	.80	....	....	.80	.28	....	*.17*	....	....	*.33*	....	.42	....	....	....	....	....	....	....	.38	....	.78	....	.80	.15	.87	.06	.66	*.25*	....	§6.98
Sedalia	Missouri	1.48	.29	....	....	1.38	.49	.40	....	....	....	....	....	.27	....	....	....	.07	.30	....	.55	.07	....	1.06	....	.96	....	1.02	....	1.70	.85	....	10.89
Seligman[2]	Neosho	.94	....	....	....	....	....	....	....	....	....	.32	....	.27	....	....	....	....	....	....	....	.90	.25	....	....	....	....	1.10	....	....	....	....	3.78
Seymour[2]....3½ mi. NE	White	.91	1.48	....	....	....	....	....	.18	....	....	1.12	....	.16	....	....	....	....	....	....	....	.31	....	1.06	T.	....	T.	1.15	T.	T.	.66	....	7.03
Shell Knob[2]...3 mi. SE	do	1.00	.05	....	....	....	....	....	....	....	....	.11	.07	.20	....	....	....	....	....	....	T.	T.	1.00	.10	....	....	....	1.00	.25	T.	.50	....	4.28
Siloam Sprgs Lookout[2]	do	*	1.58	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.62	....	....	.27	....	.59	....	....	....	3.06
Springfield[1, 5]. 4 mi. NW	do	1.01	T.	....	....	.16	....	T.	.01	....	1.15	T	....	.17	....	....	....	....	....	.65	.05	.05	T.	1.14	....	T.	.26	1.18	.01	.01	.90	....	6.75
Stover[2]	Missouri	*	1.15	....	....	.82	.48	.45	....	....	....	.50	....	.43	T.	....	....	....	....	.40	....	.22	.23	.25	....	.61	....	1.57	....	*	1.32	....	8.43
Sugar Camp Lookout[2]	White	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Sweet Springs	Missouri	1.04	.03	....	.16	1.52	.79	.92	.14	....	....	....	....	.78	....	....	....	.06	.20	T.	.62	.08	2.68	....	....	T.	....	.87	....	1.08	1.47	....	12.44
Tecumseh[2]...¼ mi. W	White	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Topaz[2]	do	.53	1.55	....	....	....	....	.50	....	....	....	.17	....	.12	....	....	....	....	....	....	....	.45	.39	.22	....	....	.32	1.21	....	....	.07	....	5.53
Vanzant[2]....3¾ mi. SE	do	.68	1.25	....	....	....	....	....	.65	....	.20	....	....	.20	.01	....	....	....	....	....	....	.25	....	*	.39	....	.36	.14	.70	....	.10	....	4.93
Waco[2]	Spring	1.20	.01	....	....	.26	.22	....	....	....	....	T.	....	.51	....	....	....	....	....	....	....	.17	.10	.35	....	....	....	1.90	.02	T.	....	....	4.74
Warrensburg	Missouri	.96	.02	....	.24	.76	1.21	.62	.14	....	....	....	....	.94	....	....	....	T.	.11	....	T.	.74	....	1.72	....	.27	....	.75	....	.58	1.04	....	10.10
Warsaw[2]...(A)	Osage	.35	.06	....	....	.36	1.35	.83	1.68	....	....	.23	....	.35	....	....	....	....	T.	....	....	.62	....	.60	....	1.15	....	.90	....	.25	.60	....	9.33
Warsaw[2]...(B)	do	.36	*.05*	....	....	1.67	T.	.72	....	....	....	.34	....	.89	....	....	....	....	T.	....	....	.35	....	.70	....	1.06	....	.87	....	.24	.62	....	§7.37
Wasola[2]	White	.48	....	....	....	....	....	....	....	....	....	.45	....	.24	.08	....	....	....	....	....	....	.28	....	.55	....	.03	.27	.09	.59	....	....	....	3.06
Waverly[2]	Missouri	.32	.88	....	....	.89	.72	.76	....	....	....	....	.08	.51	....	....	....	.14	.90	.13	....	.93	....	.48	....	....	....	.52	....	1.06	.10	....	8.42
Waynesville	Gasconade	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Wilderness Lookout[2]	White	.87	.62	....	....	....	....	....	....	....	....	.34	.15	.33	....	....	....	....	....	....	....	.87	.21	.67	....	....	....	.88	.51	....	.09	....	5.54
Southeastern Division																																	
Advance[3].....½ mile W	St. Francis	1.32	T.	....	....	....	....	T.	T.	....	....	....	....	....	....	....	....	....	....	T.	.06	.71	.53	.17	....	.97	....	1.39	....	.01	.97	....	6.13
Alton.......10 miles SE	Black	.65	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.67	.39	.28	....	.18	....	....	.68	....	....	....	2.85
Annapolis[2].....7 mi. W	do	.12	1.00	T.	....	....	....	....	.04	....	....	.01	....	....	....	....	....	....	....	....	.36	.12	.01	.31	.06	....	3.01	1.82	.56	....	.10	....	7.52
Arcadia[2]	St. Francis	....	2.00	....	....	....	....	....	....	....	....	T.	....	....	....	....	....	....	....	....	....	.15	T.	.04	T.	....	2.52	.43	2.00	*T.*	.06	....	7.20
Belleview[2]	Meramec	.21	1.18	.04	.02	T.	....	....	.03	....	....	T.	....	....	....	....	....	....	....	....	....	....	....	.08	T.	....	1.20	.57	1.12	....	.13	....	4.58
Bernie[2]	St. Francis	....	.19	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.59	.32	1.65	.36	.11	....	.23	.47	.87	....	....	....	4.79
Birch Tree[2] ...½ mile E	Black	.42	.82	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.48	....	....	....	1.72
Black...... 9 miles NW	do	1.09	.09	....	....	....	....	.02	.03	....	....	.02	....	....	....	....	....	....	....	.53	....	.02	.12	.07	....	1.62	.67	2.09	....	.10	....	....	6.47
Bloomfield[2]	St. Francis	....	1.06	.07	....	....	....	....	....	T.	....	....	....	....	....	....	....	....	....	....	.02	.27	2.97	.26	.07	....	1.08	.16	1.54	....	.04	....	7.54
Bunker[2]... 4 miles NW	Black	.40	1.25	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.10	T.	....	....	2.00	....	....	.20	....	....	3.95
Campbell	St. Francis	.13	.53	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.20	.58	.85	1.85	.05	....	.68	T.	.95	....	....	....	....	5.82
Cape Girardeau....(A)	Mississippi	.23	T.	....	....	....	....	....	T.	....	....	....	.02	.02	....	....	....	....	....	....	....	.68	.17	.97	T	.98	....	1.82	....	....	....	....	4.89
Cape Girardeau[2]...(B)	do	....	1.22	....	....	....	....	....	....	....	....	T.	T.	T.	T.	....	....	....	....	....	....	T.	.44	1.09	.22	....	1.54	....	1.73	....	.07	....	6.31
Caruthersville[2]	do	....	.04	T.	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.95	.30	1.02	.32	T.	T.	T.	.90	.70	....	....	....	4.23
Centerville(1)[2]	Black	.34	2.05	.04	....	....	....	....	.03	....	....	.03	....	....	....	....	....	....	....	....	.19	.35	....	.05	.02	....	1.91	1.60	.55	....	.15	....	7.31
Centerville(2)[2]	do	.37	1.66	.11	....	....	....	....	.03	....	....	.01	....	....	....	....	....	....	....	....	.21	.29	T.	.03	.02	....	2.21	.09	1.45	T	.09	....	6.57
Clearwater Dam[2]	do	.15	.62	....	....	....	....	....	....	T.	....	....	....	....	....	....	....	....	....	....	.19	.45	.04	.46	.04	....	.07	T.	2.30	T.	....	....	4.32
Cook Station[2]	Meramec	.40	.66	*T.*	....	.60	....	....	1.53	....	.46	....	....	.12	....	....	....	....	....	....	....	....	....	.10	....	....	1.15	*	1.56	.10	.20	....	6.88
Crane Mountain[2]	St. Francis	.19	.98	....	....	....	....	....	....	.05	....	....	....	....	....	....	....	....	....	....	....	.14	....	1.31	.02	....	1.68	1.16	.70	....	....	....	6.23
Crystal City	Mississippi	.27	.09	T.	....	.20	T.	....	.05	....	....	.15	....	....	....	....	....	T	....	.24	T.	*T.*	....	T.	....	1.29	.81	2.47	....	.25	....	....	5.32
Cuba	Meramec	.57	.10	....	....	.66	....	T.	.94	....	....	.69	....	.17	....	....	....	T.	....	....	....	T.	....	.11	....	1.60	....	1.29	....	.09	....	....	6.22
Deering[2]	St. Francis	....	T.	....	....	....	....	....	....	....	....	....	....	....	.04	....	....	....	....	....	.27	2.20	.48	.04	.11	T	.14	.14	1.24	....	....	....	4.66
De Soto	Mississippi	.36	.16	....	....	.20	....	....	.37	....	....	.15	....	....	....	....	....	.02	.02	....	....	.07	....	.08	....	1.51	.04	2.61	....	.57	....	....	6.11
Dexter[2]	St. Francis	....	1.98	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	T.	.27	1.34	.18	.26	....	.42	.28	1.22	....	T.	....	5.95
Doniphan(1)	Black	.75	.37	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1.10	....	.83	.80	.89	.40	.20	.03	.32	....	....	....	....	5.69
Doniphan(2)[2]	do	....	.90	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1.58	.79	.08	1.15	....	.13	.25	....	.60	....	....	....	5.48
East End[2]	Meramec	.40	....	....	....	....	....	....	....	.20	....	.08	....	....	....	....	....	....	....	....	.01	....	....	.08	....	....	1.57	*	2.00	....	.12	....	4.46
Eastwood Lookout[2]	Black	*	3.78	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.34	.26	.50	.74	....	....	.12	.14	2.24	....	....	....	8.12
Ellington[2]	do	.09	1.00	....	....	....	....	....	.04	....	....	....	....	....	....	....	....	....	....	.29	....	.07	....	1.60	.04	....	1.70	.07	1.85	....	....	....	6.75
Ellsinore	do	1.30	.50	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.50	.08	.43	.28	....	.15	.26	2.13	....	....	....	....	5.63
Farmington[2]	St. Francis	....	1.66	....	....	T.	....	....	.43	....	....	....	....	....	T.	....	....	....	....	....	.04	.13	.05	T.	.03	....	.82	.51	2.12	.02	.04	....	5.85
Fisk[2]	do	....	2.50	.06	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.15	....	1.27	.12	....	....	....	.34	1.26	....	....	....	5.70
Fredericktown[2]	do	.18	1.66	T.	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	T.	.49	.09	.03	....	1.70	.10	2.04	....	....	....	6.29
Gerald	Meramec	.47	.21	....	....	1.69	....	.21	....	....	....	.12	....	.06	....	....	....	....	....	....	....	.11	.02	.41	....	.89	....	1.36	....	.38	....	....	5.93
Greenville(1)†	St. Francis	.70	.05	....	....	....	....	....	T.	....	....	....	....	....	....	....	....	....	....	.38	.03	.40	.60	....	1.18	.18	3.57	....	....	....	1.60	....	8.69
Greenville[2](2)	do	....	.79	....	....	....	....	....	....	.01	....	....	....	....	....	....	....	....	....	....	.16	.12	.27	.58	.02	....	.86	.42	3.32	....	....	....	6.55
High Lookout	Black	2.78	....	....	....	....	....	.02	....	....	....	....	....	....	....	....	....	....	....	.09	....	.46	.03	....	....	.60	....	.58	....	....	....	....	4.56
Jackson	Mississippi	.98	.37	....	....	....	....	....	.06	....	....	....	....	.02	....	....	....	....	....	....	*T.*	1.22	T.	.15	....	1.59	T.	1.45	....	.02	....	....	5.86
Jerome[2]	Gasconade	.24	.52	T.	....	1.28	T.	....	.38	....	....	.46	....	.12	....	....	....	....	....	....	....	.06	....	.08	....	1.06	....	1.34	....	*	1.18	....	6.72
Koshkonong[2]	Black	.30	.43	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.02	....	.19	.01	....	.32	....	1.01	....	....	....	2.28
Leeper[2]	do	.84	.36	T.	T.	....	....	T.	T.	....	....	....	....	....	....	....	....	....	....	....	.30	.22	.08	.11	.02	....	.04	.06	2.18	T.	T	....	4.21
Licking[2]	Gasconade	.53	*	.94	....	.09	....	.18	....	....	....	....	....	....	....	....	....	....	....	....	.35	.68	....	....	....	....	.25	....	....	....	.47	....	3.49
Macedonia Lookout[2]	Black	*	2.55	....	....	....	....	....	....	.02	....	....	....	....	....	....	....	....	....	....	.04	.46	.28	.50	....	....	.05	.13	.53	....	.14	....	4.70
Marble Hill	Mississippi	1.10	.08	....	....	....	....	....	.24	....	....	....	....	....	....	....	....	....	....	....	....	.75	T.	.42	....	2.00	....	1.50	....	....	....	....	6.09
Morehouse	do	.40	1.30	....	....	....	....	....	....	....	....	....	1.60	....	....	....	....	....	....	T.	....	.58	.30	.39	....	.61	....	.71	....	....	....	....	5.89
Moselle[2]	Meramec	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
New Madrid[2]	Mississippi	....	.37	....	....	....	....	....	....	....	....	....	.15	....	....	....	....	....	....	....	.44	.11	.30	....	....	....	1.14	.24	.67	....	....	....	3.42
Oates Tower[2]	Black	.19	1.20	*T.*	....	T	*T.*	....	.05	....	....	.05	....	....	T.	....	....	....	....	....	.25	.07	T.	.02	T	T.	1.32	1.32	.85	.02	.11	....	5.45
Owensville[2]	Gasconade	.17	.65	....	....	.91	1.10	....	.62	....	....	.32	....	.04	....	....	....	....	.05	....	....	.77	....	.07	.18	.77	.18	.95	.16	.15	.10	....	7.19
Pacific[2]	Meramec	....	*.43*	....	....	.34	*.45*	.17	27	....	....	*.30*	....	....	....	....	....	....	.47	....	....	.72	....	....	....	....	.57	1.56	*.50*	*.38*	*.03*	....	§6.19
Parma[2]	St. Francis	....	.71	....	....	....	....	....	T.	....	....	....	....	....	....	....	....	....	....	....	.65	.08	1.20	.06	.08	....	.44	.26	1.01	....	....	....	4.59
Perryville	Mississippi	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Poplar Bluff[2]	Black	....	3.24	....	....	....	....	....	....	....	....	....	....	.05	....	....	....	....	....	....	T.	.24	1.50	.02	....	....	.64	.02	.93	....	....	....	6.64
Puxico[2]	St. Francis	....	1.65	.05	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.02	.15	1.25	.58	.01	....	.85	....	1.42	....	.04	....	6.02
Qulin[2]	do	T.	.25	....	....	....	....	....	....	T.	....	....	....	....	....	....	....	....	....	....	.13	.57	1.30	.16	T.	....	.03	T.	1.13	T.	T.	....	3.57
Reynolds[2]	Black	....	1.21	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	T.	.32	....	1.83	....	1.68	....	.20	....	5.24
Richwoods[2]	Meramec	.38	.13	....	....	....	.24	....	.77	....	....	.10	....	....	....	....	....	....	....	....	....	.08	....	....	....	....	1.67	1.51	.50	.39	....	....	5.77
Rolla[2]	do	.32	.48	....	....	.50	.67	.07	.50	....	....	.70	....	.07	....	....	....	....	....	....	....	.05	....	T	....	1.10	....	1.20	....	.35	.85	....	6.86
Round Spring[2]	Black	....	1.10	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1.86	....	.25	....	....	....	....	....	2.67	.04	.16	....	6.08

Continued on next page

Daily Precipitation for June 1947—Continued from preceding page

Stations	Drainage-basins	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	..	Total
Southeastern Division –	*Concluded*																																
St. Louis:																																	
City Office[1], [5]	Mississippi	.79	.04	....	....	.21	T.	.08	.30	....	.02	.53	....	T.	....	....	....	.31	.02	.01	.20	.03	.02	.06	....	.70	.10	1.21	....	.54	2.22	....	7.39
Airport[3], [5]	Missouri	.63	T.	....	....	.47	T.	.01	.40	....	T.	T.	....	....	....	....	....	.21	.11	.03	.14	T	T.	T.	T.	.68	T.	1.42	....	.34	3.00	....	7.44
St. Louis Univ.[1], [5]	Mississippi	.85	T.	....	....	.19	T.	.06	.21	....	.05	.21	....	....	....	....	....	.22	.01	.02	.38	T.	.03	.06	....	.61	.08	.93	....	.40	2.04	....	6.35
Washington Univ.[3]	....do	.07	.56	....	....	.15	.15	.08	.51	....	....	.30	....	....	....	....	....	.05	.17	....	.03	.39	....	....	.19	....	.76	1.12	.39	.85	.01	....	5.78
Salem	Meramec	.99	.03	....	....	.43	....	T.	.19	....	....	.33	....	....	....	....	....	....	....	....	....	....	....	.18	....	1.78	....	1.58	....	.18	....	....	5.69
Sikeston[2]	Mississippi	....	1.50	....	T.	....	....	....	....	....	....	....	1.05	....	....	....	....	....	....	....	.01	.14	.53	.09	T.	*T.*	.35	.08	.77	....	.02	....	4.54
Steelville[2] ...2½ mi. NE	Meramec	.25	.29	....	....	.30	....	.10	.90	....	....	.60	....	....	....	....	....	....	....	....	....	....	....	T.	....	1.00	....	*	1.34	.09	....	....	4.87
Sullivan[2]	....do	.37	.23	.02	....	.13	.45	....	.61	....	....	.45	....	....	....	....	....	....	.04	....	....	.07	....	.02	....	1.35	.28	1.20	.40	.17	.01	....	5.80
Summersville[2]	Black	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Union[2] ....1½ mi. SE	Meramec	.09	.36	....	....	.27	.60	.11	.58	....	....	.11	....	....	....	....	....	....	.25	.03	.04	....	....	....	....	....	.63	1.60	.32	.21	.03	....	5.23
Valley Park[2]	....do	....	.71	....	....	.10	.30	.10	.44	....	....	.35	....	....	....	....	....	....	.20	.03	....	T.	T.	....	.10	....	.39	1.10	.79	.75	.04	....	5.40
Van Buren[2]	Black	....	.95	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.10	....	.38	....	.30	....	1.40	....	....	....	3.13
Vichy[3] .....2 miles NW	Meramec	.44	.15	....	....	1.36	T.	.12	.95	....	.68	T.	....	.16	....	....	....	T.	....	....	T.	.10	T.	.23	....	1.24	....	1.38	T.	.27	1.44	....	8.52
Wappapello Dam[3]	St. Francis	.10	1.27	.01	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.13	.36	.95	....	.01	T.	.59	T.	1.73	.02	....	....	5.17
Webster Groves	Mississippi	.81	.13	....	....	.33	....	.08	.94	....	....	.29	....	....	....	....	....	.10	.09	T.	.04	T	....	.03	....	.41	.29	1.75	....	.64	.83	....	6.76
Weingarten	....do	.60	.56	....	....	....	....	.35	.25	....	....	....	....	....	....	....	....	....	....	1.35	....	.10	....	....	....	.63	.10	....	.25	....	....	....	4.19
West Plains[3]	Black	.72	T.	....	....	....	....	T.	.01	....	T.	.06	....	.02	....	....	....	T.	....	.07	.01	.04	T.	.24	T.	.14	.02	.44	....	T.	.08	....	1.85
Williamsville[2]	....do	....	1.28	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1.44	.18	.48	.22	....	....	.33	....	2.81	....	....	....	6.74
Willow Springs[2] 500 ft E	White	.42	1.43	....	....	....	....	....	.15	....	....	.13	....	....	....	....	....	....	....	....	....	.13	....	.14	....	....	.15	.12	1.00	....	.23	....	3.90
Winona Ranger Sta.[2]	Black	.40	1.08	....	....	....	....	....	....	....	....	....	T.	....	....	....	....	....	....	....	.15	....	.12	.15	....	....	....	....	.70	....	....	....	2.60
Zalma[2]	Mississippi	.20	.46	....	....	....	....	....	T.	T.	....	....	....	....	....	....	....	....	....	....	.46	.47	.31	1.64	.09	T.	.58	....	1.24	.03	....	....	5.48
Cairo, Ill.[1], [5]	....do	1.06	T.	....	....	....	....	....	.01	....	....	.02	....	T.	....	....	....	....	....	1.05	....	.31	.03	.01	T.	.70	....	.83	....	T.	.35	....	4.37
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....

Except as otherwise indicated, amounts are for 24 hours ending late in afternoon. [1] Midnight to midnight. [2] Measured in the morning; for the preceding 24 hours. [3] Data for 24 hours ending 12:30 A. M. (C. S. T.) of following day. [5] Recording gage. T. Trace or 0.005 inch or less. * Included in next measurement. // Windshield on gage. Italics data interpolated. § Partly interpolated. (A) Record from cooperative station gage. (B) Record from river station gage. (C) Airport.
‡ Received too late to be included in means and extremes.

Daily Evaporation (inches), Mean Temperature (F°), and Wind Movement (miles) for June 1947

(See precipitation data in daily precipitation table)

Station	Data	Day of month																															Monthly
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	..	
Columbia (Univ. of Mo. Hort. Exp. Sta. 9 mi. WNW.)	Evaporation	.153	.074	.108	.181	.354	.120	.182	.205	.369	.284	.198	.220	.222	.216	.186	.099	.235	.159	.126	.111	.169	.212	.202	.238	.238	.238	.288	.214	.332	.310	....	6.243
	Mean temperature	68	62	60	70	72	76	76	80	80	79	66	70	68	64	65	66	70	68	67	73	76	78	75	70	72	74	74	82	78	78	..	71.9
	Wind movement	134	66	8	55	143	64	46	5	84	170	35	51	116	88	11	15	14	33	36	30	41	32	32	2	32	80	47	46	69	37	..	1,572
Lakeside (Osage Dam)	Evaporation	.283	.077	.073	.115	.275	.147	.187	.238	.213	.417	.188	.196	.319	.203	.256	.219	.226	.151	.124	.213	.155	.190	.212	.166	.285	.243	....	....	.241	.146	....	6.169
	Mean temperature	67	64	62	72	74	75	80	80	78	78	68	74	62	66	70	70	72	74	76	78	78	80	76	72	74	74	78	78	76	80	..	73.6
	Wind movement	118	78	43	34	92	28	55	45	15	93	73	55	109	144	43	87	29	41	39	56	61	63	83	31	37	56	39	36	65	60	..	1,758
St. Louis (Washington University)	Evaporation	.256	.087	.069	.172	.204	.047	.151	.251	.218	.340	.337	.204	.150	.216	.231	245	.145	.102	.047	.065	.164	.055	.172	060	.246	.090	.326	.146	.383	.086	....	5.265
	Mean temperature	71	64	62	69	74	76	79	78	82	82	72	73	68	67	69	67	71	70	70	72	74	76	68	75	71	75	76	80	74	80	..	72.8
	Wind movement	47	31	32	15	35	19	24	7	4	50	46	31	29	46	25	30	8	16	28	30	38	24	46	20	12	20	32	6	35	13	..	799

Observations taken at 8:00 a. m. except at 5:00 p. m. at Columbia. For Lakeside and St. Louis (Washington University) descriptions see April 1932 and August 1938 reports, respectively. * Included in next measurement.

ERRATA

November 1946, page 82: Date of minimum temperature at Bolivar should be 17. Number of days partly cloudy and cloudy at Boonville should be 5 and 15, respectively.

Date of greatest 24-hour precipitation at Lockwood should be 31-1. Date of maximum temperature at Saverton should be 15†.

Annual 1946, page 98: Number of days partly cloudy and cloudy at Boonville should be 98ᵃ and 118ᵃ, respectively.

Missouri Storms, June 1947

County	Date	Time	Nature of storm	Storm moved from	Width of path (miles)	Length of path (miles)	Loss of life	Property damage (estimated)	Remarks
Howell	1	Between 3:40 p.m. and 4:15 p.m.	Tornado	W	¼ to ½	15	1	$20,000	Storm struck Olden, Pomona, Dripping Springs, White Church and Peace Valley communities, resulting in death of one person, serious injury to two others and damage to farm homes, buildings, outbuildings, timber, wires, orchards and fences estimated at approximately $20,000. Some livestock and poultry were killed. Heavy rain and in some areas heavy hail accompanied the storm. One hailstone was reported found that measured 7 inches around. Roads and highways were blocked by fallen trees.

Continued on page 4[illegible]

Daily Temperatures for June 1947

Stations		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	..	Mean
Northern Division																																	
Brunswick /	Maximum	69	72	71	83	83	79	84	88	90	85	75	82	63	79	79	78	75	74	67	81	81	84	78	84	85	86	89	90	83	87	..	80.1
	Minimum	55	57	55	55	62	52	64	65	69	69	56	56	55	53	52	58	58	65	64	63	64	68	70	63	64	67	67	69	66	68	..	61.6
Chillicothe 2 mi ESE(C)	Maximum	68	71	72	85	84	79	84	87	90	83	70	79	61	77	80	79	75	74	64	79	83	85	79	87	84	88	88	90	83	84	..	79.7
	Minimum	60	55	53	58	61	65	62	63	71	61	51	53	50	48	55	54	63	63	59	62	67	68	63	59	66	64	68	70	65	64	..	60.7
Columbia	Maximum	71	68	71	85	84	81	89	90	91	85	75	86	72	80	81	81	74	73	74	85	84	86	83	85	85	85	86	91	84	88	..	81.8
	Minimum	62	55	54	59	62	69	66	70	76	68	58	59	55	51	56	57	66	66	63	66	70	73	64	58	65	69	65	77	66	68	..	63.8
Fayette	Maximum	70	72	71	84	83	81	88	90	90	85	80	85	83	80	79	80	77	76	76	83	83	84	79	84	84	84	85	90	84	87	..	81.9
	Minimum	60	55	50	57	61	67	63	68	71	73	55	57	53	50	53	54	63	64	61	62	67	71	70	57	64	64	69	73	65	68	..	62.2
Grant City	Maximum	69	71	70	83	83	80	84	84	88	83	69	57	59	77	76	77	79	73	63	72	75	82	78	84	86	83	89	91	86	82	..	77.8
	Minimum	61	52	50	58	60	70	63	60	74	65	52	46	47	45	..	54	62	60	57	60	62	65	58	60	64	63	71	72	64	60	..	^{a}59.8
Hannibal	Maximum	74	67	70	80	82	78	85	84	90	83	75	80	76	78	73	78	80	70	64	78	77	80	80	85	83	88	84	92	83	89	..	79.5
	Minimum	60	52	50	56	61	65	62	65	69	66	55	55	53	49	56	55	63	63	55	61	65	68	67	66	62	62	65	72	63	66	..	60.9
Kansas City Airport	Maximum	72	73	71	87	88	82	89	91	91	84	70	87	62	81	82	85	91	80	70	79	83	89	79	86	87	87	92	94	85	91	..	82.8
	Minimum	62	58	60	64	63	66	68	69	74	65	54	55	52	52	56	60	67	66	63	63	70	71	64	63	68	71	67	77	67	67	..	64.1
Kirksville	Maximum	74	73	72	81	85	79	84	87	90	86	85	73	74	80	86	79	74	69	63	72	75	81	82	85	87	88	82	91	85	86	..	80.3
	Minimum	47	52	51	56	60	62	63	59	69	62	*51*	50	52	46	53	52	*63*	*61*	55	60	62	68	67	55	57	75	67	70	65	71	..	§59.4
Lathrop	Maximum	69	72	70	85	84	78	86	87	88	82	73	79	77	80	80	80	85	79	67	74	82	85	79	84	84	85	86	89	84	88	..	80.7
	Minimum	60	55	54	60	62	65	62	64	70	73	43	52	51	46	54	55	63	63	61	60	63	71	60	53	62	71	61	75	64	73	..	61.1
Louisiana	Maximum	76	67	73	81	83	82	88	88	90	86	78	82	80	80	77	79	79	72	70	79	80	82	77	85	84	88	86	92	88	91	..	81.4
	Minimum	63	55	49	55	63	70	64	65	69	72	60	57	57	52	54	50	59	64	57	63	66	71	69	64	60	60	67	71	65	71	..	62.1
Macon /	Maximum	69	69	71	81	82	78	85	88	90	85	72	79	62	79	77	79	77	74	63	76	80	84	80	85	85	87	86	92	85	87	..	79.6
	Minimum	58	52	52	55	60	62	63	64	70	74	53	52	53	47	52	52	58	64	57	57	62	65	70	59	64	62	65	67	65	67	..	60.0
Maryville	Maximum	70	69	71	84	83	78	83	83	87	80	68	59	58	77	75	77	80	71	62	70	71	82	74	84	82	88	87	88	83	81	..	76.9
	Minimum	61	50	54	60	61	65	64	60	71	64	51	50	43	46	57	56	62	62	58	60	65	67	55	57	62	63	68	72	65	71	..	60.2
Mexico /	Maximum	77	67	71	82	81	81	82	88	90	85	73	85	66	77	78	79	76	71	69	79	85	84	81	84	82	87	84	95	81	89	..	80.3
	Minimum	54	54	51	55	61	64	65	65	71	71	56	56	53	49	51	53	59	64	57	57	63	67	72	58	65	65	65	65	64	67	..	60.6
Moberly / .... 3½ mi. NE	Maximum	70	69	70	81	82	76	85	87	89	85	72	81	64	77	74	77	74	72	68	78	82	85	78	84	83	85	84	90	85	86	..	79.1
	Minimum	52	54	49	57	61	62	61	63	72	72	54	55	53	54	55	54	64	64	59	60	65	68	70	58	66	64	66	66	66	71	..	61.2
Oregon	Maximum	74	73	72	86	83	81	87	87	91	79	69	68	64	80	81	80	87	77	65	74	80	85	80	84	86	86	90	93	83	82	..	80.2
	Minimum	62	53	55	62	61	63	66	64	68	64	51	52	49	48	56	58	63	62	61	62	62	66	57	60	64	66	65	75	68	72	..	61.2
St. Charles /	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
St. Joseph Airport	Maximum	72	75	75	87	86	82	88	90	91	82	66	76	64	80	82	84	89	82	67	72	83	85	79	83	83	86	99	92	82	82	..	81.1
	Minimum	61	57	55	63	63	65	66	64	74	60	53	53	52	49	54	59	64	63	60	60	66	68	60	60	65	67	67	78	70	66	..	62.1
Trenton	Maximum	71	73	72	84	85	80	85	87	89	84	74	75	70	80	78	78	74	74	65	68	81	85	80	86	85	88	88	90	85	87	..	80.0
	Minimum	62	55	54	59	61	64	60	63	72	71	51	51	50	48	57	56	63	63	48	61	61	71	65	59	65	64	69	75	65	65	..	60.9
Unionville /	Maximum	69	71	70	81	84	80	84	85	87	82	68	69	59	77	69	78	72	66	65	73	73	81	78	85	84	86	86	90	83	84	..	77.3
	Minimum	59	52	50	50	60	62	63	59	69	70	48	49	50	45	51	52	59	60	56	56	61	61	65	59	60	58	66	67	64	67	..	58.3
Warrenton	Maximum	78	66	71	82	83	85	87	89	90	86	88	83	82	79	80	80	80	72	72	79	83	83	81	83	84	88	85	91	87	92	..	82.3
	Minimum	62	54	47	52	60	64	70	68	68	..	..	..	60	50	51	48	61	64	58	63	67	67	66	59	60	61	65	72	65	69	..	^{c}61.3
Keokuk, Iowa	Maximum	72	70	68	78	83	79	83	84	90	83	69	72	67	75	72	78	77	64	66	76	73	79	80	84	80	87	86	92	86	84	..	77.9
	Minimum	54	51	50	56	61	65	65	65	70	63	55	53	51	49	53	53	60	60	54	60	63	69	62	59	65	65	71	67	65	65	..	60.0
Southwestern Division																																	
Clinton	Maximum	73	70	70	88	87	86	91	90	90	85	76	90	65	81	83	85	86	85	85	86	83	88	81	84	87	82	92	91	85	89	..	83.8
	Minimum	60	56	52	63	61	67	66	68	70	65	57	57	51	49	56	57	65	67	66	66	71	69	63	62	64	68	65	75	68	71	..	63.2
Eldon	Maximum	73	67	70	87	85	85	89	88	89	86	76	87	85	78	82	82	82	80	80	86	83	84	82	82	84	83	87	90	84	90	..	82.9
	Minimum	61	56	50	56	61	67	63	67	69	71	58	60	53	49	56	55	62	65	65	67	70	71	69	60	63	65	63	72	65	73	..	62.7
Harrisonville /	Maximum	70	73	69	85	83	79	88	89	90	84	72	86	64	80	84	82	88	83	82	85	81	87	80	83	84	81	89	90	81	87	..	82.0
	Minimum	59	59	55	61	60	61	62	67	69	74	52	60	50	48	52	54	60	67	65	65	69	71	63	58	63	65	63	65	66	66	..	61.6
Jefferson City	Maximum	74	66	70	85	84	85	89	88	90	84	74	87	82	78	80	80	79	77	78	85	84	85	82	83	84	84	88	92	85	90	..	82.4
	Minimum	62	55	49	54	60	68	64	68	70	70	58	60	54	50	54	53	61	65	65	66	69	71	71	58	63	64	64	73	65	68	..	62.4
Joplin Airport	Maximum	80	74	80	88	89	88	91	92	92	84	80	90	64	79	84	87	88	91	95	87	86	90	81	85	87	82	92	92	90	91	..	86.0
	Minimum	60	58	56	65	65	70	72	73	72	67	60	56	51	49	55	60	65	66	70	66	67	70	66	63	70	65	66	76	75	72	..	64.9
Lamar /	Maximum	77	73	76	85	86	85	88	88	88	83	77	87	65	77	80	82	85	87	90	84	82	87	80	82	86	78	89	90	86	90	..	83.1
	Minimum	53	59	54	58	65	63	71	71	69	70	59	59	52	48	54	59	62	64	68	67	66	70	66	63	66	67	63	64	74	70	..	63.1
Lebanon /	Maximum	75	64	77	84	86	85	90	88	88	81	79	87	68	79	82	85	84	86	87	88	84	85	83	85	86	80	86	88	83	90	..	83.1
	Minimum	55	60	51	55	60	61	63	65	68	71	60	60	53	47	54	56	59	64	66	64	69	62	66	61	62	65	62	62	64	65	..	61.0
Lexington /	Maximum	68	72	70	86	80	80	85	86	92	83	65	84	62	80	82	84	92	79	79	80	82	88	78	85	86	83	91	92	84	90	..	81.6
	Minimum	47	49	53	61	62	63	66	66	72	74	54	56	52	53	55	53	56	67	65	67	64	65	64	60	64	64	66	66	66	66	..	61.2
Marshall	Maximum	73	69	70	85	85	82	86	88	91	89	83	86	81	79	78	79	78	75	72	80	83	84	76	79	83	84	85	92	91	86	..	81.7
	Minimum	61	50	53	58	60	66	63	71	73	73	54	58	52	49	55	56	64	64	63	63	68	67	67	62	60	67	65	75	65	68	..	62.3
Mountain Grove	Maximum	74	71	75	79	85	85	88	89	87	84	78	85	83	78	81	83	83	85	91	83	81	80	81	82	85	84	82	88	86	91	..	82.9
	Minimum	59	60	50	56	65	67	63	69	67	70	62	62	55	49	53	58	61	63	66	64	69	70	65	65	65	66	62	70	65	70	..	62.9
Neosho	Maximum	82	80	81	86	88	87	91	91	90	87	82	89	87	78	83	85	86	89	93	90	85	89	87	85	87	85	90	90	90	92	..	86.8
	Minimum	60	61	54	64	70	64	72	69	71	74	62	69	54	44	50	55	62	61	61	67	67	70	67	60	67	61	67	75	77	71	..	64.2
Nevada	Maximum	77	74	80	88	87	85	90	89	90	85	76	89	81	80	83	85	87	89	93	87	85	92	82	85	88	85	91	90	87	91	..	85.7
	Minimum	59	61	54	65	62	69	69	70	71	72	58	65	50	49	54	60	65	67	67	68	67	67	65	61	67	61	63	73	70	73	..	64.2
Sedalia	Maximum	75	68	70	86	84	83	88	88	90	87	81	88	85	78	82	82	84	82	76	85	83	86	83	82	84	83	87	91	87	82	..	83.0
	Minimum	61	57	51	61	61	69	65	69	71	73	55	60	51	48	55	58	65	68	66	65	70	71	67	58	65	68	65	76	65	74	..	63.6
Springfield....4 mi. NW	Maximum	77	67	75	84	87	85	90	90	89	80	77	87	64	78	82	85	84	86	91	82	79	86	79	80	85	79	89	88	83	93	..	82.7
	Minimum	59	57	55	60	64	67	69	70	68	65	61	63	50	50	55	60	63	64	68	67	70	70	65	62	67	64	63	71	69	69	..	63.5
Warrensburg	Maximum	74	70	70	86	84	82	87	88	89	85	81	87	83	80	81	82	84	83	77	85	82	84	82	83	85	83	87	91	89	81	..	82.8
	Minimum	60	59	..	61	62	62	65	68	71	73	56	61	52	50	57	51	67	68	66	65	69	71	65	60	65	70	64	76	66	71	..	^{a}63.8
Southeastern Division																																	
Arcadia /	Maximum	80	70	74	80	82	87	89	90	90	90	83	90	77	85	86	84	87	86	86	87	82	81	68	84	76	87	84	94	81	95	..	83.8
	Minimum	48	60	49	52	54	53	64	69	68	72	64	62	62	48	50	51	52	59	65	66	67	68	62	64	58	63	68	64	64	66	..	60.4
Birch Tree.... ½ mile E	Maximum	..	73	..	..	86	85	88	89	90	87	83	89	86	..	..	..	..	90	89	86	..	..	..	..	..	86	81	90	86	92	..	^{l}*84.0*
	Minimum	..	60	..	..	62	66	66	69	67	72	64	63	60	..	..	..	..	58	63	64	..	..	..	..	..	62	64	70	71	69	..	^{l}*63.2*
Caruthersville	Maximum	84	81	75	83	88	90	92	93	92	90	92	94	92	81	84	82	87	92	90	85	83	82	80	81	80	86	83	87	85	91	..	86.2
	Minimum	65	62	60	58	64	71	70	75	72	75	73	72	72	55	58	66	63	71	70	69	71	71	64	67	65	68	68	75	75	73	..	67.9
Crystal City	Maximum	78	71	75	84	86	88	90	91	94	92	88	87	85	79	88	87	84	84	77	84	83	81	83	86	84	86	85	95	85	97	..	85.3
	Minimum	64	60	50	55	64	69	70	67	71	75	65	62	61	53	56	54	61	63	65	67	69	70	66	64	60	62	66	71	67	72	..	64.0
Doniphan	Maximum	80	77	77	83	91	91	94	94	94	92	90	95	85	83	88	87	91	94	95	83	86	79	75	86	81	90	85	93	87	96	..	87.4
	Minimum	65	61	53	60	57	66	65	69	67	73	70	66	66	45	49	57	55	60	61	65	70	70	65	63	67	64	67	71	71	69	..	63.6
Farmington	Maximum	71	68	73	81	85	86	90	90	90	88	80	89	84	78	82	79	87	86	80	86	82	83	74	82	75	87	83	92	84	94	..	83.0
	Minimum	61	59	49	54	62	65	69	68	70	70	64	60	62	50	54	51	57	61	65	65	68	67	62	62	58	64	62	71	65	69	..	62.1
Jackson	Maximum	78	74	77	82	88	88	90	93	93	91	90	94	92	82	88	85	87	91	89	91	86	87	76	88	85	87	83	92	88	95	..	87.0
	Minimum	64	62	52	53	60	70	70	72	71	72	72	65	70	52	53	52	55	62	67	66	70	69	63	67	64	64	65	73	73	69	..	64.6
Poplar Bluff	Maximum	80	76	78	82	88	90	92	92	92	89	90	96	86	83	87	86	90	93	94	86	85	83	73	85	78	86	83	90	86	93	..	86.6
	Minimum	65	62	56	55	60	67	68	72	70	73	72	66	69	51	54	59	59	62	67	66	70	69	63	66	66	64	67	70	73	71	..	65.1
Rolla /	Maximum	70	61	69	81	83	85	89	88	88	81	76	87	67	75	75	81	83	79	80	80	84	80	79	76	83	84	86	86	84	84	..	80.1
	Minimum	60	60	58	56	60	62	65	67	70	70	62	60	55	48	55	55	63	64	65	66	69	70	67	63	62	65	62	63	65	65	..	62.4
St. Louis	Maximum	79	66	72	80	85	87	90	86	92	90	81	84	76	78	79	79	80	77	77	82	81	82	70	86	78	87	85	94	87	94	..	82.1
	Minimum	64	57	51	56	65	73	69	68	70	75	66	60	55	55	62	60	62	66	62	65	65	70	65	66	62	66	66	74	66	70	..	64.4
Salem	Maximum	72	70	77	83	85	85	89	88	91	87	80	89	81	77	81	83	85	87	86	89	86	81	82	83	83	85	84	92	84	94	..	84.0
	Minimum	59	57	49	57	62	66	63	66	68	70	62	60	56	49	55	54	62	62	65	67	69	71	65	63	62	65	63	71	67	69	..	62.6
Sikeston /	Maximum	79	76	75	81	88	90	91	92	94	92	92	92	88	80	85	82	88	93	92	87	80	84	72	86	72	88	82	89	89	94	..	85.8
	Minimum	55	63	55	54	58	67	70	72	72	74	73	66	74	52	56	57	59	64	69	67	70	71	64	64	65	64	68	67	74	75	..	65.3
Union ....1½ mi. SE	Maximum	78	70	73	83	85	85	91	89	91	92	81	85	82	78	83	82	81	76	75	83	84	85	81	84	83	90	86	91	88	94	..	83.7
	Minimum	63	56	49	52	62	69	65	65	68	71	63	59	58	51	53	51	59	61	63	65	68	68	67	64	57	62	64	70	66	71	..	62.0
West Plains	Maximum	74	74	76	80	87	87	90	90	91	87	82	90	74	80	84	86	90	92	94	82	85	78	84	85	85	87	84	91	82	95	..	84.9
	Minimum	62	62	52	56	64	63	65	69	67	71	66	65	53	47	49	56	60	58	64	63	72	72	67	67	65	65	65	69	72	69	..	63.2
Cairo, Ill.	Maximum	76	76	75	82	86	90	93	90	94	91	93	92	89	81	85	81	89	90	86	86	81	84	71	83	75	87	83	90	89	95	..	85.4
	Minimum	65	63	58	58	66	72	73	75	75	75	72	70	64	58	62	62	63	69	71	68	72	68	65	67	66	66	68	76	76	72	..	67.8

/ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs. ^{a}, ^{b}, ^{c}, etc., number of days missing, for example, ^{b} indicates two days missing. Italics data interpolated. § Partly interpolated. (C) Airport.

Missouri Storms, June 1947—Continued from page 46

County	Date	Time	Nature of storm	Storm moved from	Width of path (miles)	Length of path (miles)	Loss of life	Property damage (estimated)	Remarks
St. Louis City, St. Louis and Franklin	1	All forenoon and early afternoon	High wind and electrical storm	SW	....	....	0	$100	Generally high, gusty wind until about 2 p. m. Trees and wires were damaged by the wind in the St. Louis area; at Pacific, Franklin County, a child was slightly injured when blown against a barbed wire fence. During an electrical storm beginning in early evening, about 6 p. m., four buildings at St. Louis and in the County were struck and slightly damaged by lightning.
DeKalb...........	4	Between 10:45 p.m. and 11:00 p.m.	Tornado and high wind	SW	¼ to 2	4	0	$10,000	Storm struck near Oak, 7 miles northwest of Amity, damaging one house and several barns, outbuildings, trees and orchards. One person was slightly injured and several head of livestock and poultry were killed. Damage to crops in storage estimated at $100. Several trees were blown down and some outbuildings damaged by wind at Clarksdale in southwest corner of County. Light hail accompanied the storm near Oak.
Dade	5	7:00 a.m. to 7:15 a.m.	High wind	NW	150 to 200 feet	½	0	$3,000	Local windstorm struck the town of Lockwood with bulk of damage occurring in the business district. Roofs of three business buildings were blown off, two dwellings and numerous outbuildings were damaged and many trees felled or broken. Storm was accompanied by heavy rain which came in through the damaged roofs, accounting for about one-half of the damage. No one was injured.
Clay..............	6	8:08 p.m. to 8:14 p.m.	Tornado	WSW veering to WNW	200 yards to ⅜	2½	0	$100,000 to $125,000	Storm struck a short distance to the southwest and south of Excelsior Springs, passed through Crescent Lake and over Lake Maurer. Two or three houses were totally destroyed, a dozen or more partially destroyed as were a number of outbuildings. A large number of trees were also destroyed and some livestock killed. A great deal of damage occurred to telephone wires and to growing crops and gardens. A few persons were slightly injured.
St. Louis City and St. Louis..........	8	Between 1:00 a.m. and 2:00 a.m.	High wind and thunderstorm	S	....	....	0	$1,000	Power and telephone lines broken and service disrupted. Many limbs snapped from trees, and street light domes and a plate glass window were broken. Lightning struck a chimney of one building; also a church with resultant damage by fire of $1,000.
Holt..............	12	Early morning	Thunderstorm	......	....	....	0	Unknown	During an electrical storm, a barn 3 miles south of Forbes was struck by lightning and burned. A combine, feed grinder, 40 tons of hay and 6,000 bushels of corn were lost. Another barn burned 3 miles east of Oregon the same day but origin of the fire was undetermined. Some harness, hay, corn and oats were burned.
Sullivan..........	17	Morning	Electrical	......	....	....	1	Unknown	One man was struck and killed by lightning, a few miles southeast of Browning. Several head of livestock were also killed in the community.
St. Louis City and St. Louis	25	Between 7:00 p.m. and 7:45 p.m.	High wind and thunderstorm	NW	....	....	0	Minor	Numerous trees and public utility lines were blown down. A few hailstones fell in Ferguson.
Butler............	27	8:45 a.m. to 8:55 a.m.	Tornado	SW	100 yards	11	0	$10,000	Storm struck Harviell, and vicinity, damaging a number of business buildings, houses, barns and automobiles. Most of the town's telephone lines were blown down. No one was injured and no crop damage was reported. Storm was accompanied by heavy rain and moderate hail.
Greene & Webster.	27	6:00 a.m. to 6:30 a.m.	High wind	NW	5	30	0	$10,500	A high, line-squall wind of 56 miles per hour velocity struck Springfield, and vicinity, resulting in heavy damage to trees, power and telephone lines and minor damage to buildings and crops. One airplane and one automobile were badly damaged. Some evidence of a tornado was observed but if a tornado it was aloft and did not touch the ground. Damage at Springfield, and vicinity, was estimated at $10,000. At Seymour, and vicinity, trees and wires were broken and service disrupted. Damage estimated at $500 in that area. No injuries were reported from either area.
St. Louis City and St. Louis	29	Between 4:30 a.m. and 5:00 a.m.	High wind and thunderstorm	NW	....	....	0	Minor	Trees and wires were blown down and electric service for about six hundred families was disrupted. Some damage was reported to the wheat crop by the wind but extent of damage not known. Damage confined to southwestern section of city and southern part of County.
Marion............	30	Not known	Electrical	......	....	....	2	....	Two children were reported killed and a third injured when lightning struck a tree, in which they were playing, on a farm near Emerson.
Sullivan, Linn and Crawford..........	30	Between 11:25 a.m. and 12:25 p.m.; also 6:00 p.m.	High wind and heavy hail	SW	....	....	0	Not reported	High winds were quite general over the State on the 30th and resulted in considerable damage at several places. Near Browning, limbs were blown from trees and one old unoccupied house was blown down and some outbuildings damaged. South of Browning, but in Linn County, heavy hail accompanied the wind, damaging roofs and car tops and killing some frying chickens. Some stones measured 9½ inches in circumference. Linneus and Purdin communities were the hardest hit by the storm. At the latter place trees were damaged by the wind. At Cuba, Crawford County, trees and wires were damaged by wind at 6:00 p. m.
Boone	30	Between 1:10 p.m. and 2:15 p.m.	High wind	NW	2	10	0	$1,000 to $1,500	Storm occurred at Columbia and the vicinity south and southwest of that place, blowing down trees and wires and damaging some farm buildings and roofs. McBaine, Deer Park, Elkhurst and Nashville communities were the hardest hit by the storm. No injuries or crop damage reported.
Cass and Johnson .	30	Between 4:00 p.m. and 5:00 p.m.	High wind and tornado	WNW	¼	7	0	$60,000	Storm struck Kingsville and Holden communities, seriously injuring one person, destroying six residences, damaging fifteen others, a school building, and several barns and outbuildings, tore down trees and power and communication lines, and disrupted gas service when a "service gate" west of Holden was damaged. Bulk of damage was at Holden, but fortunately the storm missed the business districts of both towns. Approximately one hundred frying chickens were killed at Holden. Strong wind that damaged trees was reported at Strasburg, Cass County, preceding the tornado. Crops were destroyed in the path of the storm but damage to crops not estimated.
St. Louis City and St. Louis	30	Between 5:00 p.m. and 10:00 p.m.	High wind and thunderstorm	NW	....	....	0	Minor	High wind and lightning knocked down several power lines in the city and county. A trolley car was struck by lightning and the motor burned out, but no one was injured. A home in Wellston was struck by lightning which caused a small fire.

Time used on this tabulation is Central Standard Time, unless otherwise indicated.

WBO, St. Louis. 10-25-47—1130.

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H. F. WAHLGREN
ST. LOUIS, MO.

VOL. LI — JULY 1947 — No. 7

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GENERAL SUMMARY

The outstanding feature of July was the termination of the disastrous and, in some instances, unprecedented flood conditions that had prevailed since May or June in most of the larger rivers and streams of the State, and which resulted in tens of millions of dollars in property and crop damage and an irreparable and tremendous loss of top soil, by erosion. Flood crests were reached early in the month, but the major streams of the State were not entirely within their banks again until near the middle of the month.

It was the coolest month of its name since 1924 and the eighth-coolest July in the past 60 years. The minimum temperature of 39°, for this month, was the lowest ever recorded in the State during July. The previous low temperature was 40°, recorded in 1924, 1926, and 1944. The 19th, 22d, and 23d were, generally, the coolest days during the month, while the 30th and 31st were the warmest days. An unusually cool period prevailed from the 18th to the 25th, while the 26th to the end of the month was the only outstanding warm period during the month. The average temperature, with departures from normal, by divisions, was as follows: Northern, 74.6°, —2.3°; Southwestern, 75.4°, —2.4°; Southeastern, 75.1°, —3.2°; for the State, 75.0°, —3.0°. Afternoon temperatures of 100°, or higher, occurred on an average of only two days and were confined to the closing days of the month, which were not only hot, but quite humid as well, and some heat prostration cases were reported.

Average precipitation for July was 1.33 inches below normal and the distribution of the rainfall was very irregular, ranging from a total of 6.56 inches at Lockwood, the station receiving the greatest monthly total, to only 0.11 inch at Kahoka, where the least monthly amount was recorded. The greater portion of the month's rainfall occurred during the first week, as a rule, and by the end of the month conditions over the State, generally, were becoming progressively drier each day and more moisture was urgently needed as the month closed. Each of the three divisions of the State averaged considerably drier than normal, viz:—Northern, 1.97 inches, —1.61 inches; Southwestern, 2.43 inches, —1.12 inches; Southeastern, 2.10 inches, —1.27 inches; for the State, 2.17 inches, —1.33 inches. It was the driest month of the current year since February and the second-driest July since 1940, July of 1945 averaging drier than the current month.

There were no severe storms during the month, only a few local wind and thunderstorms being reported and these resulted in relatively minor damage. They are tabulated elsewhere in this issue.

July was the most favorable month since May for field work and the growth and development of all crops. After the first few days of the month, the unusually frequent and persistently heavy rainfall that had prevailed throughout June diminished in both frequency and quantity, and permitted the planting of crops that had not been previously planted and also the cultivation and harvesting of those crops that had been planted earlier. Planting and replanting of corn was completed by the middle of the month, although much land in the low bottoms

(Continued on page 51)

PRESSURE, WIND, HUMIDITY, AND SUNSHINE

Stations	Sea-level pressure, extremes-inches: Highest	Date	Lowest	Date	Wind: Average hourly velocity	Maximum velocity ¶	Direction of maximum	Date	Relative humidity: 12:30 a. m.	6:30 a. m.	12:30 p. m.	6:30 p. m.	Percentage of sunshine	Degree days
Columbia	30.30*	24	29.83*	15	5.5	28	ne.	28	80*	84*	52*	56*	79	0
K. C. Airport	30.30	8	29.78	4	9.2	38	nw.	13	67	77	45	45	81	0
St. Joseph Ap't	30.32	8	29.78	4	6.8	27	ne.	13	76	83	51	50	81	2
St. Louis	30.32*	25	29.81*	15	9.6	27	sw.	15	76*	72	48	50*	76	0
Springfield	30.30	25	29.84	15	8.6	34	w.	15	84	87	52	54	74	2
Cairo, Ill.	30.32	25	29.77	15	7.2	28	nw.	28	..	80	52	..	86	0

* Data for Airport station. ¶ For 5-minute period.

COMPARATIVE DATA FOR JULY

Year	Temperature: Average for State	Highest	Lowest	Precipitation: Average for State	Average, Northern Division	Average, Southwestern Division	Average, Southeastern Division	Snowfall, Average for State	Number of days: Precip. .01 inch or more	Clear	Partly cloudy	Cloudy
1888	79.3	111	50	2.85	4.44	1.50	2.62	0	7	..	..	..
1889	77.1	107	46	4.02	4.22	3.80	4.03	0	8	..	..	..
1890	79.6	110	42	3.04	3.12	3.90	2.10	0	5	..	..	..
1891	72.7	103	45	3.23	4.13	4.16	1.41	0	8	..	..	..
1892	75.8	102	45	4.88	5.27	4.95	4.43	0	9	12	10	9
1893	77.3	103	51	4.67	4.72	6.19	3.10	0	8	14	12	5
1894	76.5	109	42	2.67	1.48	3.43	3.11	0	5	18	10	3
1895	74.4	106	45	6.77	6.36	6.91	7.03	0	10	10	12	9
1896	77.3	108	48	5.51	7.53	4.34	4.66	0	9	15	11	5
1897	78.7	106	48	3.14	4.11	2.70	2.62	0	6	19	9	3
1898	76.1	104	42	5.72	5.00	5.71	6.44	0	9	16	10	5
1899	76.0	102	43	4.50	4.88	4.32	4.30	0	9	15	11	5
1900	76.9	102	46	4.15	3.91	4.58	3.96	0	8	17	10	4
1901	85.4	116	46	2.02	2.23	1.93	1.90	0	5	19	10	2
1902	77.0	103	50	4.10	5.95	4.54	1.80	0	8	17	11	3
1903	77.4	102	51	3.40	2.79	3.56	3.85	0	8	17	10	4
1904	74.2	100	47	4.61	4.86	5.32	3.65	0	10	15	11	5
1905	73.4	101	48	8.07	4.86	9.90	9.46	0	12	12	10	9
1906	74.7	100	48	3.54	2.33	4.11	4.19	0	8	17	9	5
1907	78.4	105	51	4.56	6.62	3.78	3.28	0	8	19	8	4
1908	76.5	101	49	3.36	3.36	3.09	3.64	0	8	18	9	4
1909	76.7	102	41	6.16	7.01	6.33	5.14	0	10	17	8	6
1910	76.8	109	46	5.79	4.79	4.59	7.99	0	9	16	9	6
1911	78.0	113	43	3.68	3.41	4.78	2.86	0	8	16	9	6
1912	78.8	104	52	2.88	2.15	2.53	3.95	0	7	18	9	4
1913	80.2	108	47	3.10	2.52	2.86	3.93	0	7	18	9	4
1914	80.5	109	45	2.67	2.48	3.98	1.56	0	7	17	9	5
1915	74.6	102	42	5.74	9.05	4.39	3.78	0	12	14	9	8
1916	81.6	109	52	1.22	1.28	1.01	1.36	0	3	25	5	1
1917	77.5	107	42	3.08	1.71	3.36	4.18	0	8	20	8	3
1918	77.1	110	41	1.62	1.98	1.89	1.00	0	6	19	8	4
1919	80.0	105	50	2.30	3.00	2.21	1.69	0	5	23	6	2
1920	76.3	105	47	3.30	3.69	3.17	3.05	0	7	18	8	5
1921	80.3	109	46	2.32	2.29	2.39	2.28	0	5	20	8	3
1922	76.8	103	46	5.50	6.87	5.57	4.06	0	8	17	9	5
1923	78.2	105	50	3.16	2.61	4.29	2.59	0	6	18	8	5
1924	73.3	103	40	5.55	4.42	6.65	5.57	0	10	15	11	5
1925	77.9	106	46	2.70	2.56	2.76	2.79	0	7	16	10	5
1926	78.0	108	40	3.07	3.66	2.54	3.02	0	7	17	9	5
1927	75.8	101	48	4.16	2.82	5.38	4.28	0	8	18	9	4
1928	77.2	102	48	2.93	3.47	3.15	2.16	0	7	17	10	4
1929	77.8	104	50	4.03	5.50	2.58	4.01	0	8	16	10	5
1930	81.2	113	42	1.00	0.50	1.48	1.01	0	3	22	7	2
1931	80.3	110	49	3.31	2.83	3.45	3.65	0	7	18	9	4
1932	79.8	109	48	3.61	3.89	4.08	2.85	0	7	19	8	4
1933	79.3	108	49	2.67	1.73	2.44	3.84	0	5	18	9	4
1934	86.2	117	48	1.18	0.82	1.22	1.50	0	4	20	9	2
1935	80.8	104	53	3.30	3.90	2.06	3.94	0	6	20	9	2
1936	85.3	118	44	1.52	0.72	1.48	2.37	0	3	23	6	2
1937	77.9	105	45	4.06	4.80	3.34	4.05	0	8	17	11	3
1938	79.7	110	53	3.50	2.91	2.58	5.00	0	7	19	8	4
1939	80.0	107	51	2.91	3.13	2.24	3.37	0	6	19	9	3
1940	77.7	111	45	1.58	1.47	1.55	1.73	0	4	19	9	3
1941	79.3	110	46	2.75	2.50	3.02	2.74	0	7	16	11	4
1942	78.8	104	50	2.85	3.68	2.72	2.15	0	7	17	11	3
1943	79.6	104	46	2.49	3.68	1.77	2.02	0	6	18	10	3
1944	77.6	105	40	2.62	2.44	2.97	2.46	0	7	17	10	4
1945	75.1	105	44	2.10	1.87	2.50	1.92	0	6	18	9	4
1946	78.9	107	48	2.68	2.44	2.64	2.96	0	5	18	10	3
1947	**75.0**	**108**	**39**	**2.17**	**1.97**	**2.43**	**2.10**	**0**	5	20	8	3
Period	**78.0**	**118**	**39**	**3.50**	**3.58**	**3.55**	**3.37**	**0**	**7**	**18**	**9**	**4**

NAT HIST

Climatological Data for July 1947

Stations	Counties	Elevation, feet	Temperature, in degrees Fahr.							Precipitation, in inches						Number of days				Prevailing direction of wind	Observers
			Length of record, years	Mean	Departure from the normal	Highest	Date	Lowest	Date	Length of record, years	Total	Departure from the normal	Greatest in 24 hours [4]	Date	Total snowfall, unmelted	With precip., .01 inch or more	Clear	Partly cloudy	Cloudy		
Northern Division																					
Albany	Gentry	930	6	74.4	......	101	30	47	22	18	2.35	−2.28	0.86	4-5	0	6	21	8	2	s.	William J. Butler
Amity	DeKalb	1,007	1	74.8	......	102	30	51	22	12	2.08	−0.55	0.91	13	0	6	21	7	3	se.	O. M. Colhour
Bethany	Harrison	916	52	74.1	− 2.2	102	30	46	22	54	1.57	−2.59	0.60	4-5	0	5	23	5	3	sw.	B. A. McGregor
Brookfield	Linn	767	6	76.0	......	106	30	49	22	6	2.82	......	0.53	4-5	0	5	23	6	2	s.	G. F. Breen
Brunswick	Chariton	652	66	75.3	− 0.8	104	30	52	22†	68	4.14	+0.03	2.30	1	0	6	19	6	6	ne.	O. K. Benecke
Canton, Lock & Dam 20	Lewis	488	9	75.6	− 1.4	100	30	50	22	17	1.87	−0.96	0.35	27	0	7	20	9	2	uw.	Lockmaster
Carrollton	Carroll	754	1	75.1	......	104	30	48	22	1	1.78	......	0.65	14	0	6	23	7	1	sw.	Harold E. Finley
Chillicothe 2 mi ESE(C)	Livingston	771	38	74.6	− 2.4	102	30	50	22	41	1 62	−1.80	0.84	14	0	6	13	13	5	s.	Civil Aeronautics Adm.
Columbia	Boone	740	57	75.5	− 1.8	104	30	54	23	57	2.03	−1.46	1.04	5	0	5	20	9	2	w.	U. S. Weather Bureau
Conception	Nodaway	1,108	58	76.0	− 0.6	103	30	52	19†	63	1.60	−3.07	0.71	12-13	0	6	19	10	2	s.	Fr. Adelhelm Hess
Edgerton	Platte	856	27	74.1	− 2.0	104	30	51	21†	44	2.03	−1.47	1.15	13	0	4	16	13	2	s	Leroy H. Mindrup
Elsberry	Lincoln	449	16	73.4	− 6.0	100	30	41	22	16	1.53	−0.46	0.69	30-1	0	5	26	3	2	n.	Soil Conservation Service
Fayette	Howard	760	67	74.0	− 3.2	102	30	49	22†	64	1.11	−2.14	0.59	5	0	4	25	4	2	s.	Irvin E. Schnell
Fulton	Callaway	818	59	73.6	− 4.1	100	30	47	22†	55	3.66	+0.37	1.34	28	0	6	28	1	2	sw.	Frank E. Hillgartner
Grant City	Worth	1,134	43	74.2§	− 2.0	102	30	..	..	55	0.85	−3.78	0.29	5	0	4	23	5	3	s.	J. Homer Korn
Hannibal	Marion	759	55	74.0	− 2.8	99	30	52	22	63	0.52	−2.57	0.42	5	0	3	20	10	1	n.	Hannibal Water Dept.
Kansas City Airport	Jackson	741	58	78.8	+ 0.7	107	30	58	22	58	1.07	−2.75	0.46	13	0	5	16	12	3	s.	U. S. Weather Bureau
Kansas City Univ.	Jackson	908	9	77.6	− 1.9	107	30	53	23	9	0.55	−2.01	0.22	13	0	4	26	4	1	sw.	University of Kansas City
Kidder	Caldwell	1,020	55	74.5	− 2.1	102	30	51	19†	59	2.02	−1.86	0.61	14	0	8	22	4	5	s.	Mrs. Geraldine Terry
Kirksville	Adair	969	58	74.3	− 1.7	98	30	48	22	65	2.72	−1.58	1.85	5-6	0	3	26	3	2	nw	Arthur Lee Jones
Kirksville Airport	Adair	970	8	73.2	......	98	30	50	22	8	3.40	......	2.27	5	0	3	13	12	6	s.	Civil Aeronautics Adm.
Lathrop	Clinton	1,071	0	74.8	......	101	29†	50	22	0	1.93	......	0.85	14	0	5	25	6	0	n.	E. L. Fisher
Louisiana	Pike	469	53	73.4[d]	− 3.0	102	30	43	22	66	0.62	−2.98	0.44	5	0	4	26	5	0	s.	Stark Bro's Nurseries
Macon	Macon	875	48	73.9	− 3.3	100	30	48	22	54	3.89	+0.48	2.08	5	0	8	19	5	7	ne.	John W. Atwell
Maryville	Nodaway	1,169	57	73.4	− 2.3	97	29†	52	19†	53	3.17	−2.06	1.75	12-13	0	5	21	6	4	s.	R. B. Montomery
Memphis	Scotland	787	8	74.3	......	103	30	47	22	17	0.60	−2.20	0.12	28	0	3	16	14	1	sw.	John W. Alexander
Mexico	Audrain	800	58	73.2	− 4.1	100	30	47	22	69	3.85	+0.64	2.25	5	0	7	18	5	8	s.	Darrence W. Stuart
Moberly .....3½ mi. NE	Randolph	860	10	73.8	− 3.8	99	30	48	22	10	2.66	+0.06	0.82	5	0	9	24	7	0	sw.	Robert A. Berg
New Florence. 1 mi SE	Montgomery	885	4	72.8	......	97	30	49	22	5	1.80	......	1.16	5	0	5	14	11	6	s.	U. S. Weather Bureau
Oregon	Holt	1,048	91	75.6	0.0	103	30	54	19†	91	3.48	−0.70	1.84	13	0	7	27	2	2	s.	James M. Curry
Polo	Caldwell	1,000	1	74.6	......	103	30	51	19†	1	2.08	......	0.35	13	0	8	23	7	1	se.	F. B. Albright
St. Charles	St. Charles	520	59	....	......	..	..	..	..	69	....	......	....	..	....	..	..	..	..	......	....
St. Joseph Airport	Buchanan	957	37	76.9	− 0.5	104	30	55	19	75	1.77	−2.01	1.01	13	0	5	24	4	3	s.	U. S Weather Bureau
Salisbury	Chariton	723	1	75.2	......	103	30	50	22	1	1.51	......	0 78	14	0	4	21	10	0	s.	David H. Robertson
Saverton, Lock No. 22	Ralls	472	9	75.3	......	101	30	51	22	9	0.80	−1.58	0.40	5	0	5	26	4	1	nw.	Lockmaster
Shelbina	Shelby	779	6	74.6	......	100	30	47	22	54	1.70	−2.17	0.96	5	0	4	17	10	4	nw.	Guyman Hatcher
Steffenville	Lewis	650	49	74.2	− 3.6	99	30	45	22	54	0.87	−3.24	0.39	27	0	6	22	8	1	n.	Mrs. Fannie V. Gross
Tarkio	Atchison	916	44	73.9	− 2.9	101	29	50	19	53	2.72	−1.43	1.04	12-13	0	7	16	9	6	se.	Civil Aeronautics Adm.
Trenton	Grundy	822	51	76 2	− 0.6	103	30	50	22	52	1.90	−2.17	0.28	14	0	9	21	10	0	s.	W. H. Estes
Unionville	Putnam	1,062	54	73.2	− 3.3	102	30	45	22	54	3.64	−0.48	2.48	4-5	0	5	24	6	1	sw.	Mrs. Dora A. Wilson
Vandalia	Audrain	766	3	72.7	......	98	30	45	22	8	1.15	......	0.65	5	0	2	27	3	1	n.	Mrs. Naomi K. Stoutz
Warrenton	Warren	816	65	73.4	− 4.4	99	30	43	22	57	1.87	−1.27	1 13	5	0	7	23	7	1	s.	W. T. Zimmerman
Keokuk, Iowa	Lee, Ia	574	75	75.8	− 1 1	101	39	55	23	75	0.30	−3.11	0.25	27	0	3	21	8	2	nw.	U. S. Weather Bureau
Division means	**and extremes**	.....	..	**74.6**	**− 2 3**	**107**	**30**	**41**	**22**	..	**1.97**	**−1 61**	**2.71**	**27**	**0**	**5**	**21**	**7**	**3**	**s.**	
Southwestern Division																					
Anderson ...1½ mi SW	McDonald	1,000	43	72.6	− 4.7	102	30	45	23†	48	1.55	−2.86	0.42	1	0	8	24	4	3	sw.	Samuel G. Chamberlain
Appleton City. 2 mi. W	Bates	813	52	75.2	− 3.0	101	31	51	23	55	2.08	−2.23	1.55	9-10	0	6	28	2	1	sw.	F. Paul Eye
Bolivar	Polk	1,071	44	75.4	− 1.9	102	31	52	23	52	3.90	+0.18	0.98	17-18	0	8	21	8	2	sw.	Southwest Baptist College
Boonville	Cooper	650	9	74.7	− 2.7	103	30	51	22	70	2.81	−0.43	0.67	5	0	6	23	6	2	s.	Boonville Water Dept.
Butler	Bates	865	1	74.9[a]	......	104[a]	30	50[a]	22	6	1.51	......	0.69	24-25	0	6	17[a]	8[a]	5[a]	e.	Harley W. Johnson
Camdenton	Pulaski	940	1	76.2	......	107	31	52[a]	23	1	0.24	......	0.24	5	0	1	19	11	1	sw.	Mo. Conservation Com.
Carthage	Jasper	962	13	76.6	......	103	30	48	23	23	5.61	......	2.19	1	0	6	15	15	1	s.	Carthage W. and E. Plant
Clinton	Henry	786	54	76.8	− 1 5	105	30	51	23	60	0 61	−2.82	0.25	24-25	0	5	21	8	2	s.	U. S. Weather Bureau
Eldon	Miller	934	52	74.5[a]	− 2.7	102[a]	30	50[a]	23	48	2.49	−0.73	1.86	5	0	4	18[a]	10[a]	2[a]	s.	Arthur Rothwell
Harrisonville	Cass	904	69	76.2	− 1.5	106	30	54	19	72	1.41	−2 20	0.24	13	0	9	25	2	4	sw.	Jeffrey B. Patterson
Jefferson City	Cole	557	57	74 0	− 4.1	104	30	46	23	65	1 85	−1.26	0.61	5	0	6	21	7	3	sw.	K W. O. S. Radio Farm
Joplin Airport	Jasper	988	25	77.4	− 0.7	103	29†	52	23	42	3.03	−1.59	1.56	16	0	7	11	12	8	s.	Civil Aeronautics Adm.
Lakeside	Miller	595	16	75.3	− 5.2	105	30	48	23	16	1.49	−0.66	0.94	5	0	4	23	7	1	sw.	W. S. Fraine
Lamar	Barton	980	59	74.6	− 3.8	98	30†	52	23	66	4.31	+0.09	1.04	17-18	0	7	22	7	2	sw.	Mrs. Mario Mann
Lebanon	Laclede	1,265	59	74.3	− 2.6	106	31	47	23	60	1.76	−2.20	0.56	6	0	4	16	4	11	sw.	Mrs. Rosa E. Montelius
Lexington	Lafayette	688	62	76.2	− 1.2	106	30	54	22†	63	2.87	−1.64	0.70	13	0	4	27	3	1	s.	Tilton Davis
Lockwood	Dade	1,078	41	76.4	− 1.2	102	31	54	23	51	6.56	+1.80	0.85	17	0	8	23	7	1	sw.	Hubert A. Nieman
Marshall	Saline	779	60	75.2	− 2.3	102	30	51	22	57	1.84	−1.73	1.30	4-5	0	4	19	12	0	sw.	Thomas A. Reid
Monett	Barry	1,317	0	75.0	......	99	30†	52	23	0	2.36	......	0.79	24	0	6	25	6	0	s.	Mo. Univ. Fruit Exp. Sta.
Mountain Grove	Wright	1,463	46	74.8	− 1.6	102	31	52	22	50	3.93	+0 04	3 30	17-18	0	5	22	9	0	se.	Mo. Fruit Exp. Station
Mount Vernon	Lawrence	1,174	35	75.2	− 2.5	100	30†	50	2†	47	4.62	−0.57	1.34	23-24	0	6	16	14	1	s.	James C. Williamson
Neosho	Newton	1,011	60	76.0	− 1.5	103	30	47	23	64	1.65	−3.00	0.65	24-25	0	6	23	7	1	se.	U. S Fisheries Station
Nevada	Vernon	862	54	77.2	− 2.4	105	31	52	23	55	1.45	−2.21	0.71	23-24	0	4	25	4	2	sw.	Henry Kraft
Ozark Beach	Taney	700	7	77 8	......	103	30	53	22	22	2 09	−1.30	0.94	15	0	7	16	13	2	sw.	Empire District Elec. Co.
Sedalia	Pettis	910	34	75.9	− 1.6	104	30	52	19	36	0.53	−3 91	0 25	5	0	5	25	2	4	sw.	Dr. J. E Cannaday
Seligman	Barry	1,542	46	74.9	− 1.8	101	30	50	23	44	0.81	−3.31	0.47	30-1	0	3	25	5	1	s.	Floyd E. Fawver
Seymour. 3½ miles NE	Webster	1,642	41	71.9	− 3.6	97	30	47	23	41	2.40	−1.54	1 52	17-18	0	4	26	5	0	sw.	Ira H. Hailey
Springfield... 4 mi. NW	Greene	1,265	59	74.3	− 1.9	100	31	53	23	59	5.41	+1.20	2.48	15	0	11	12	12	7	s.	U. S. Weather Bureau
Sweet Springs	Saline	700	6	74.4[a]	......	104[a]	30	48[a]	22	6	1.63	......	0.84	5	0	7	21	10	0	s.	H. F. Nelson
Warrensburg	Johnson	878	60	76.2	− 2.6	103	30	56	22†	67	0.79	−3.18	0.33	25	0	5	25	5	1	s.	Central Teachers College
Warsaw	Benton	687	46	76.4	− 1.9	105	30	50	23	52	1.97	−2.04	0.41	25	0	5	24	4	3	se.	Dora B. Johnson
Wasola	Ozark	1,294	6	76.0	......	102	30†	50	23	7	2.38	......	0.98	18	0	7	19	11	1	n.	A. W. Pinckney
Waynesville	Pulaski	805	1	....	......	..	..	..	..	1	....	......	....	..	....	..	..	..	..	......	Jesse H. Barlow
Division means	**and extremes**	.....	..	**75.4**	**− 2.4**	**107**	**31**	**45**	**23†**	..	**2.43**	**−1.12**	**3.30**	**17-18**	**0**	**6**	**21**	**8**	**2**	**sw.**	
Southeastern Division																					
Advance.... ¼ mile W	Stoddard	354	10	74.4	− 3.8	103	31	43	23	10	0.73	−2 63	0.52	5	0	5	13	15	3	sw.	U. S. Weather Bureau
Arcadia	Iron	926	66	73.6	− 2.2	107	31	43	23	69	3.07	−1.05	0 58	5	0	8	23	6	2	w	Arcadia College
Birch Tree... ½ mile E	Shannon	1,000	52	74.8[b]	− 1.8	108[b]	31	44[b]	23	53	1.97	−1.61	1.03	18	0	3	20[a]	10[a]	0[a]	se	Mrs. Mildred E. Catlett
Black.......9 miles NW	Iron	1,000	54	71.4[b]	− 4.2	103[b]	31	39[b]	23	54	2 93	−0.76	1 81	30-1	0	4	20[b]	8[b]	1[b]	w.	M. L Volner
Campbell	Dunklin	314	21	75.6	− 4.8	101	31	47	23	21	1.08	−2.40	0 38	1	0	8	22	8	1	n.	Mrs. Ruth Christian
Cape Girardeau	Cape Girardeau	347	2	75.8	......	100	31	54	22†	47	1.52	−1.90	0.87	30 1	0	6	21	8	2	n.	Dr. Robert Martin
Caruthersville	Pemiscot	265	51	76.8	− 4.5	96	31	54	23	55	2.44	−0.85	0.75	30-1	0	6	21	7	3	s.	Victor T. Malloure
Clearwater Dam	Wayne	648	1	78.6§	......	105	31	55	23	1	0.99	......	0.80	30-1	0	3	20	4	7	n.	U. S. Engineer Office
Crystal City	Jefferson	420	13	75.3	− 4.3	104	30	45	22†	13	3.91	+0.70	0.53	5-6	0	7	12	13	6	nw	Richard K. Ragland
Doniphan	Ripley	344	43	75.8	− 2.8	107	31	45	23	43	1.69	−2 35	0.71	17	0	7	28	2	1	ne.	Boyce Lackey
Farmington	St. Francois	896	36	72.7	− 3.6	102	31	42	23	50	2.43	−1.13	1.00	30-1	0	5	11	17	3	s.	E. M. Karsch
Greenville	Wayne	460	38	....	......	..	..	..	..	40	....	......	....	..	0	..	..	..	..	......	Beuford Shoemake
Jackson	Cape Girardeau	428	56	75.8	− 1.8	102	31	44	23	57	2.13	−1.41	0.89	25	0	5	14	16	1	sw.	Danny Siebert
Koshkonong	Oregon	958	46	77.0	− 1.8	104	31	51	23	47	2.63	−1.14	1.53	18	0	4	24	6	1	sw.	Mrs. Genevieve T. Smith
Licking...... 4 miles N	Texas	1,170	10	72.3	− 4.9	104	31	46	22	10	0.89	−1.68	0.89	30-1	0	1	23[a]	4[a]	3[a]	s.	Fern E. Austin

Continued on next page

Climatological Data for July 1947—Continued from preceding page

Stations	Counties	Elevation, feet	Temperature, in degrees, Fahr.							Precipitation, in inches						Number of days				Prevailing direction of wind	Observers
			Length of record, years	Mean	Departure from the normal	Highest	Date	Lowest	Date	Length of record, years	Total	Departure from the normal	Greatest in 24 hours [4]	Date	Total snowfall, unmelted	With precip., .01 inch or more	Clear	Partly cloudy	Cloudy		
Southeastern Division—	*Concluded*																				
Marble Hill	Bollinger	532	52	74.2	− 3.6	105	31	42	23	54	2.93	−1.09	0.39	28	0	3	26	3	2	s.	R. A. DeWitt
Poplar Bluff	Butler	339	42	76.4	− 2.8	101	31	48	23	43	1.00	−2.94	0.62	30–1	0	4	23	5	3	nw.	Osmon M. Richardson
Rolla	Phelps	1,202	47	72.8	− 4.9	105	31	49	23	63	1.96	−1.43	0.50	5	0	4	15	13	3	w.	Rolla School of Mines
St. Louis:																					
City Office		465	110	77.0	− 1.8	101	30	57	22	110	0.68	−2.30	0.48	20	0	3	13	14	4	nw.	**Section Center**
St. Louis Airport	St. Louis	556	10	76.0	− 1.8	102	30	52	23	16	1.06	−1.60	0.69	20	0	5	14	8	9	nw	U. S. Weather Bureau
St. Louis University	St. Louis City	578	35	76.8	− 3.7	101	30	57	22	35	0.57	−2.61	0.36	20	0	3	23	6	2	n.	St. Louis University
Salem	Dent	1,206	43	73.8	− 3.0	103	31	45	23	46	2.89	−0.61	1.71	5–6	0	4	14	16	1	s.	E. E. Martin
Sikeston	Scott	318	40	76.0	− 2.6	102	31	47	23	50	1.65	−2.07	0.77	28	0	5	6	23	2	s.	Mrs. Lucy W. Humphreys
Union 1½ mi. SE	Franklin	520	9	73.8	− 4.4	103	30	44	22†	30	2.16	−1.78	0.59	5	0	8	20	8	3	nw.	Cornelius Sieges
Vichy 2 mi. NW	Maries	1,125	11	74.6	......	103	30†	52	22	12	1.52	......	1.42	5	0	3	15	12	4	sw.	Civil Aeronautics Adm.
Wappapello Dam	Butler	475	8	76.1	......	102	31	52	23	8	2.01	−0.94	0.83	30–1	0	4	25	5	1	w.	U. S. Engineer Office
Webster Groves	St. Louis	507	1	74.4	......	101	30	48	22	2	1.77	......	0.99	30–1	0	5	25	5	1	nw.	R. W. Lawrie
Weingarten	St. Genevieve	833	6	74.2	......	103	31	48	22	7	2.60	......	0.60	5	0	3	13	15	3	n.	William J. Miller
West Plains	Howell	1,005	10	75.2	− 2.5	107	31	47	23	10	1.70	−0.74	1.37	18	0	5	15	9	7	sw.	U. S. Weather Bureau
Willow Springs 500 ft E	Howell	1,238	6	73.6	......	102	31	46	23	40	1.54	−2.26	0.73	18	0	3	20	11	0	s.	Allen Frazee
Cairo, Ill.	Alexander, Ill.	314	75	77.5	− 3.1	99	31	54	23	76	1.06	−2.01	0.76	28	0	5	10	12	9	sw.	U. S. Weather Bureau
Division means	**and extremes**	.....	..	75.1	− 3.2	108	31	39	23	..	2.10	−1.27	4.10	1	0	5	18	10	3	s.	
State means	**and extremes**	.....	..	75.0	− 3.0	108	31	39	23	..	2.17	−1.33	4.10	1	0	5	20	8	3	s.	

The departures from normal temperature are computed from the averages of the entire period for stations having 10 or more years of record. Departures of precipitation for stations with 15 years or more of record are computed from a normal or "standard mean", adjusted to a uniform 35-year period; for stations of 10 to 14 years the means for the period of record are used. The normal may be found by adding the departures when minus (−) or subtracting when plus (+). Figures and letters following stations indicate distance in miles and direction of station from the city Post Office, unless otherwise indicated. T. Trace or 0.005 inch or less. [a], [b], [c], etc., number of days missing; for example, [b], indicates two days missing. Italics data interpolated. § Partly interpolated. † And other dates. ‡ Received too late to be included in means and summaries. [4] Best available used for stations not equipped with recorders. Post office address of: Altona is Adrian; Clearwater Dam is Piedmont; Crane Mountain is Arcadia; East End is Goodland; Eastwood Lookout is Van Buren; Hailey is Cassville; High Lookout is Birch Tree; Macedonia Lookout is Doniphan; Oates Tower is Centerville; Perry is Center; Pineview Lookout is Cape Fair; Sugar Camp Lookout is Seligman; Topaz is Cabool; Wilderness Lookout is Lampe. (C) Airport. ¶ Indicates plus.

(Continued from page 49)

that had been intended for corn, was necessarily planted to other crops, or remained idle due to the lateness of the season. Corn responded rapidly to the more favorable weather during most of July and to cultivation which was possible as fields became dry enough to permit this work, although it was too cool for best growth, as a rule, until the last week. However, the crop was later than normal and development varied greatly, ranging from tasseling stage to only a few inches high, the latter part of the month. Harvesting of small grains was mostly completed during the month and cutting of hay crops made very good progress, under favorable weather conditions. Yields of wheat were better than anticipated earlier, while oat yields were only fair to poor. Planting of the soybean crop was completed during the month, with considerable acreage originally intended for corn planted to this crop for hay and forage. Soy beans made very good progress during July and were in excellent condition at the end of the month. Pastures were generally in very good condition until the closing days of the month, when they, like most crops, were beginning to need more moisture. A good crop of early peaches and apples was being harvested during the latter part of the month and prospects were very favorable for a large crop of the later varieties. Cotton in the extreme southeastern counties made good progress and development the latter half of July, and was blooming as the month closed. It was too cool and wet, as a rule, for this crop during the first half of the month.—M. R. W.

TEMPERATURE

The monthly mean for the State, 104 stations reporting, was 75.0°, or 3.0° below the 60-year July average. The highest monthly mean was 78.8° at Kansas City Airport, and the lowest was 71.4° near Black. The highest reported was 108° at Birch Tree, on the 31st, and the lowest was 39° near Black, on the 23d.

PRECIPITATION

The average for the State, 210 stations reporting, was 2.17 inches, or 1.33 inches less than the 60-year July average. The greatest monthly amount was 6.56 inches at Lockwood, and the least was 0.11 inch at Kahoka. The greatest amount reported in 24 hours was 4.10 inches at Richwoods on the 1st. The average number of days with 0.01 inch, or more, was 5.

MISCELLANEOUS PHENOMENA

Floods.—In Grand River, at Chillicothe, continued from June to July 2d; at Brunswick, continued from May to July 13th and from July 15th to 16th. In Meramec River, at Pacific, 2d to 3d; at Valley Park, continued from June to July 8th. In Mississippi River, in the reach from Keokuk, Iowa to Dam No. 25, continued from May to July 14th; in the reach below Dam No. 25, continued from June to July 16th, except at New Madrid and below where flood prevailed only from July 6th to 10th. In Missouri River, continued from June to July 14th. In Osage River, at Osceola, on July 3d; at Lakeside, continued from June to July 3d and again on July 7th. In St. Francis River, at Fisk, continued from June to July 6th.

Fogs.—Heavy, 14th, 15th, 16th, 26th.

Hail.—Light, 5th, in portions of Audrain County; 6th, near Seymour; 14th, in south St. Louis and west St. Louis County.

Tornadoes.—None.

Windstorms.—5th, 12th, 14th, 28th. (See special storm table).

ERRATA

January 1947, page 2: Number of days with 0.01 inch of precipitation at Nevada and Seligman should be 2 and 3, respectively. Page 3: Mean temperature and departure at Sikeston should be 39.1 and +2.1, respectively. Mean temperature at Waynesville should be 35.0¶. Page 7: Mean maximum temperature at Sikeston should be 47.4.

February 1947, page 10: Number of days with 0.01 inch of precipitation at Butler should be 3. Mean temperature and departure at Canton should be 26.5 and −4.6, respectively. Page 11: Mean temperature at Willow Springs should be 31.1.

March 1947, page 18: Number of days clear, partly cloudy, and cloudy at Eldon should be 3[a], 18[a], and 9[a], respectively. Mean temperature at Ozark Beach should be 40.7.

Daily Precipitation for July 1947

Stations	Drainage-basins	Day of month																															
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Total
Northern Division																																	
Albany	Grand					.86								.24	.72			.07			.41					.05							2.35
Amity	do				T.	.17								.91	.43			.18			.35					.04		T.					2.08
Auxvasse	Missouri					1.19	T.								.30			T.			.02				T.			T.	1.41				2.92
Bethany	Grand					.60						T.		.20	.30			T.			.25					T.		.22				T.	1.57
Bowling Green[2]	Mississippi	.39				*	.57	.58													*	.12						*	.12				1.78
Brookfield[2]	Grand	1.90				.35	.18								.19						.20												2.82
Browning 3 mi. NE	do					1.50								T.	.14			.02			.08					T.		.02	T.				1.76
Brunswick[2]	do	2.30				.98	.10									.47			T.		.23						T.		T.	.06			4.14
Canton, Lock No. 20[2]	Mississippi	.70				.03	.09									.07			.13									.07	.28				1.37
Carrollton	Missouri					.62		.03					.06		.65						.31					.11							1.78
Centralia[2]	Mississippi	.43					1.61									.16					.04								.29	1.68			4.21
Chillicothe[2] (B)	Grand	.89				.50	.10							T.	1.73	.12			.05		.26					.01	T.						3.66
Chillicothe[3] 2 mi ESE (C)	do				T.	.38								.02	.84			.04			.26					.08							1.62
Columbia[1, 5]	Missouri	T.				1.04	.04								.25			T.			.10					T.		T.	.60				2.03
Columbia[5] 9 mi. WNW	do	.11				1.00									.43				T.		.10								.13	T.			1.77
Conception	do					.13								.71	.27			.11			.34							.04				T.	1.60
Edgerton[2]	do													1.15	.16				T.		.55					.17							2.03
Edina[2]	Mississippi	T.				.06	.28																			T.			.10	.10			0.54
Elsberry S. C. S.[2]	do	.69				T.	.58	.15											T.			.03				.08		T.					1.53
Fayette	Missouri				T.	.59	T.								.18				T.		.14								.20				1.11
Fulton[2]	do	.73				.72	.06									.03													.78	1.34			3.66
Gallatin[2]	Grand					.56	.08							.25	.60	T.			.23		.24					.15							2.11
Grant City	do					.29								.16	.18						.22					T.							0.85
Hannibal[1] (A)	Mississippi					.42															.02					T.		.08					0.52
Hannibal[2] (B)	do	.54				T.	.42												T.		T.						T.		T.				0.96
Hermann[2]	Missouri	.57				.10	.40									.08						.15				.03				.88			2.21
Kahoka[2]	Mississippi	.04				.03								T.															.04				0.11
Kansas City Airport[1, 5]	Missouri				T.	T.								.46	.05			T.			.22				.02	.32							1.07
Kansas City University	do				T.									.22	.12						.10				T.	.11							0.55
Kidder[2]	Grand	.04				.54								.26	.55	.06			.07		.34						.16						2.02
King City	Missouri					.88								.44	.45			.09								T.		T.					1.86
Kirksville	Mississippi					*	1.85																			T.		T.	.87				2.72
Kirksville Airport[5]	do				T.	2.27								T.	T.			T			.02					T.		T.	1.11				3.40
LaBelle[2]	do	.10				T.	.20																										0.30
Lathrop	Grand					.02								.50	.85						.31					.25							1.93
Linneus	do					.25								.20				.06	T.		.14					T.		.05					0.70
Louisiana (A)	Mississippi	.12				.44															.05					T.		T.	.01				0.62
Louisiana[2] (B)	do	.95				T.	.42															.02							T.				1.39
Lucerne[2]	Grand					.80	.60														.22					T.			T.				§1.62
Macon[2]	Chariton	.52				1.28	.80									.15					.06					.02			.46	.60			3.89
Madison[2]	Mississippi	.35				.75	.76																					1.85	.86				4.57
Martinsburg[2]	Missouri	.55				.30	1.26	.04								.03			T.			.01				.06			.13	.06			2.44
Maryville	do					.09								1.75	.66			.09			.58							T.					3.17
Memphis[2]	Mississippi	.46				T.	.02																						.12				0.60
Mexico[2]	do	.45				.48	1.77	.04								.20			T.										.63	.28			3.85
Milan[2]	Grand	1.00				.13	.83								.05						T.								.11				2.12
Moberly[2] 3½ mi. NE	Mississippi	.94				.58	.24									*	.17		T.		.06					.13				*	.54		2.66
Monroe City	do					.73	.09														.04					.15			.14				1.15
New Florence[3, 5] 1 mi SE	Missouri	T.				1.16									.32			T.			.04					.04		T.	.24				1.80
Oregon	do					.02								1.84	1.02			.08			.41				.07	.04							3.48
Palmyra[2]	Mississippi					*	.42														.01					.02			.01				0.46
Paris[2]	do	.48				1.21	.90									.09					.03					.05			.45	.33			3.54
Perry 1 mile E	do	.05				.80	.07														.05								.08				1.05
Philadelphia	do																																....
Polo[2]	Missouri	.90				.09								.35	.25	.02			T.		.32					.01	.14						2.08
St. Charles[2] (A)	do																																....
St. Charles[2] (B)	do	2.31				.03	.30												.13			.52				T.	.10						3.39
St. Joseph Airport[1, 5]	do				T.	.02							T.	1.01	.18			T.			.49				T	.07							1.77
Salisbury	Chariton					.60									.73			T			.14								.04				1.51
Saverton, Lock No. 22[2]	Mississippi	.36				.02	.38												T.		T.	.02				T.	T.	T.	.02				0.80
Shelbina	do					.96									T.						T.					.15		.29	.30				1.70
Shelbyville	do	.72				.64															.04					.14		.44	.57				2.55
Steffenville	do					.32													.02	.04						.06		.39	.04				0.87
Tarkio[3]	Missouri				.42	.07						T.	1.03	.01	.73			.03			.43				T.								2.72
Trenton[2]	Grand	.65				.21	.11							.17	.28				.04		.16	T.					.04		.24	T.			1.90
Troy[2]	Mississippi	1.12																				.15				.01			.20	.01			1.49
Unionville[2]	Chariton	.05				2.48	.60																			T.			.45	.06			3.64
Vandalia	Mississippi	.50				.65															T.								T.				1.15
Warrenton	do	.22				1.13	T.								.26						T.	.09				.06		.07	.04				1.87
Keokuk, Iowa[1]	do					.04							.01						T.									.25					0.30
Southwestern Division																																	
Altona[2]	Osage	.64												.15	.13	T.									.10	.30							1.32
Anderson[2] 1½ mi. SW	Neosho	.42				.14	*	.14								.22			.27						.14	.22							1.55
Appleton City 2 mi. W	Osage													.04	.10	1.45					.08				.20	.21							2.08
Ava Ranger Station[2]	White																																....
Bolivar	Osage	1.41					.96									.11		.24	.74		.06				.17	.21							3.90
Boonville[2] (A)	Missouri	1.71				.64	.03								.19	.07					.17												2.81
Boonville[2] (B)	do	1.85				.63	.03									.22					.14												2.87
Bradleyville[2]	White	.23				.91								1.24					.84						.49	.19							3.90
Buffalo[2]	Osage	1.89					1.27												.20		.02				.03	.06	.02						3.49
Butler	do													.12	.13	.39		T.			.01				.17	.69							1.51
Camdenton	do					.24																											0.24
Caplinger Mills[2]	do	1.66					.02							.02		1.01			.26		T.				.19	.27							3.43
Carthage	Neosho	2.19					.75									.05			1.67						.85	.10							5.61
Cassville[2]	White	.62					.96												.21						.07	.12							1.98
Chadwick[2]	do						2.06									1.80			1.20						.54	.11	.04						5.75
Clinton[3]	Osage					.10								.10	.10			T.			T.			T.	.12	.19							0.61
Concordia	Missouri					.06								.07	.16						.17					.23		T.					0.69
Crocker	Osage	.23				.79	.20											T.	T.										T.				1.22
Eldon	Missouri	.45				1.86									T.						.15					.03							2.49
Eldorado Springs	Osage	.11												T.	.18	2.44					.06			T.	.25	.25							3.29
Elijah[2]	White																																....
Forsyth[2]	do	.15					.40	.04								1.24	.50		.20						.12	.08	.06						2.79
Galena[2]	do	.62					.76									.10	.04		.17						.25	.21							2.15
Granby[2]	do						.09									T.	.06		.33						.60	.32	.08						1.48
Hailey	do	.55					.24									.31									.38	.86							2.34
Harrisonville[2]	Osage	.75					.01							.24	.13	.09			T.		.09				.05	.03	.02						1.41
Jefferson City[2] (A)	Missouri	.91	T.	T.		.36	.25								T.	T.			.01		.14	T.								.18			1.85
Jefferson City[2] (B)	do	.77				.32	.57	T.								T.			T.		.12									.25			2.03

Continued on next page

Daily Precipitation for July 1947—Continued from preceding page

Stations	Drainage-basins	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Total
Southwestern Division—	*Concluded*																																
Joplin Airport[1]	Neosho	.08				T.	.24							T	T.	.06	1.56	.17					T.	.58	.34	T.							3.03
Lakeside[2, 5]	Osage	.50				.94										T.			T.		.04					T.	.01		T.	T.			1.49
Lamar[2]	Neosho	1.88					.29									.05			1.04						.65	.10	.30						4.31
Lebanon[2]	Osage	1.10				.07	.56																		T.	.03							1.76
Lexington[2]	Missouri	1.12				T.								.70		.30					.25					T.							2.37
Lockwood	Osage	4.75					.09								.05	.06		.05	.85		T.				.65	.06							6.56
Mansfield[2]	White	.15					.53												1.14		.03				.15								2.00
Marshall.	Missouri				.02	1.28									.34			T.			.20					T.		T.	T.				1.84
Marshfield[2]	White	.63	.01				.31												1.51		.07				.08	T.	.02						2.63
Monett[2]	Neosho	.37					.31									.51	T.		.38						.44	.35							2.36
Mountain Grove[2]	Gasconade	.38				.15	.05												3.30						.05								3.93
Mount Vernon[2]	Neosho	.90				.14										.90			1.00						1.34	.34							4.62
Neosho	do	.26					.09									.01			.27						.37	.65							1.65
Nevada	Osage	.11												T.	.15				T.					T.	.71	.48							1.45
Osceola[2]	do	.93					.10							.04	T.	1.11			.05		.04				.17	.09	.10						2.63
Ozark[2]	White	.70					.80	T.								1.10			1.35						.68	22							4.85
Ozark Beach[2]	do	.30					.38									.60	.34		.20						.14	.13							2.09
Pierce City[2]	Neosho						.45									.41			.58						.66	.42							2.52
Pineview Lookout[2]	White																																....
Pleasant Hill[2]	Osage	.60				T.								.15	.07	.15		T.	T.		.08					.30	.12						1.47
Roby	Gasconade	1.14				.59	.72												T.														2.45
St. Thomas[2]. 2¼ mi SW	Osage	.89				.32													T.		.15									.28			1.64
Sedalia	Missouri					.25									.03						.12					.11			.02				0.53
Seligman[2]	Neosho	.47					.22												.12						T.								0.81
Seymour[2]....3½ mi. NE	White	.44					.23									T.			1.52			T.			.21	T.	T.						2.40
Shell Knob[2]...3 mi. SE	do	.21					.17									.01			.21						.37	.06							1.03
Siloam Sprgs Lookout[2].	do	.13																	2.10						.20								2.43
Springfield[1, 5]. 4 mi. NW	Osage	.11				.01	.13								.07	2.41		1.25	.65		.02			.04	.42	.30							5.41
Stover[2]	Missouri	.93				.22													.02														1.17
Sugar Camp Lookout[2].	White																																....
Sweet Springs	Missouri	.08				.84								.02	.18			T.			.09					.34			.08				1.63
Tecumseh[2]. . .¼ mi. W	White																																....
Topaz[2]	do	.44					.17												1.90						.12								2.63
Vanzant[2]....3¾ mi. SE	do	.45					.11												2.18						.25								2.99
Waco[2]	Spring	1.29				.68										.12			.40						.93	T.	.05						3.47
Warrensburg	Missouri	.04												.13	.10						.19				*T.*	.33							0.79
Warsaw[2]...........(A)	Osage	1.46												.05		.05			T.		T.					.10	.31						1.97
Warsaw[2]...........(B)	do	1.39				T.									T.				T.							.43							1.82
Wasola[2]	White	.12					.38									.19	.07		.98						.38		.26						2.38
Waverly[2]	Missouri	1.90				.20								.08	.18						.15					T.							2.51
Waynesville	Gasconade																																....
Wilderness Lookout[2]	White	.41					.17	T.								T.			.23						.27	.04							1.12
Southeastern Division																																	
Advance[3].....¼ mile W	St. Francis	T.				.52												.02				.01				.07			.11				0.73
Alton.......10 miles SE	Black	.11				.10	.15												.54						.10								1.00
Annapolis[2].....7 mi. W	do	.97					.60									T.			T.											.01			1.58
Arcadia[2]	St. Francis	2.00	.01			*	.58												T.			.33				.02	.03			.10			3.07
Belleview[2]	Meramec	1.73	.02			T.	.77	.02								T.			.01			.04				*	.04			.21			2.84
Bernie[2]	St. Francis	1.21					.26												.22								.31						2.00
Birch Tree[2] ...½ mile E	Black	.52					.42												1.03														1.97
Black...... 9 miles NW	do	1.81				.85	.25																						.02				2.93
Bloomfield[2]	St. Francis	.53					.18												.09								.07			.09			0.96
Bunker[2]... 4 miles NW	Black	*	2.00				1.55																										3.55
Campbell	St. Francis	.38				.06	.07	.16											.16						.01	.21	.03						1.08
Cape Girardeau....(A)	Mississippi	.87				.12	T.	.22								T.						.08				.04			.19				1.52
Cape Girardeau[2]...(B)	do	.48	T.				.17	.44														.04					.11			.12			1.36
Caruthersville[2]	do	.75					.32	.42								.66			.15	.14						T.	T.						2.44
Centerville(1)[2]	Black	1.40				*	.71																										2.11
Centerville(2)[2]	do	1.30	T.			T.	.76									T.			T.							T.				T.			2.06
Clearwater Dam[2]	do	.80					.16									.03			T.											T.			0.99
Cook Station[2]	Meramec	1.60				*	.40																			T.							2.00
Crane Mountain[2]	St. Francis	1.91				.12	.52															.10											2.65
Crystal City	Mississippi	3.26				.42	.11								.02				.05			.04				.01		T.					3.91
Cuba	Meramec	1.67				1.42													.04		T.	T.				.05			.09				3.27
Deering[2]	St. Francis	.22					.27	.11								.22			.23	T.													1.05
De Soto	Mississippi	3.93				.52													.04							.02							4.51
Dexter[2]	St. Francis	2.23					.13												.06	.08							.12			.04			2.66
Doniphan(1)	Black	.09				.06												.71	.70						.05	.06	.02						1.69
Doniphan(2)[2]	do						.15												.54							.06	.20						0.95
East End[2]	Meramec					T.	1.97															.07											2.04
Eastwood Lookout[2]	Black	.36					1.00												1.10														2.46
Ellington[2]	do	.60					.25																										0.85
Ellsinore	do	.65				.19																				.96							1.80
Farmington[2]	St. Francis	1.00	.03				.87									T.			T.			T.					.08			.45			2.43
Fisk[2]	do	1.26					.12												.17								1.46						3.01
Fredericktown[2]	do	1.45					.66																			T.	.05			.80			2.96
Gerald	Meramec	1.33				.63																.16				.01			.57				2.70
Greenville(1)	St. Francis																																....
Greenville[2](2)	do	1.53					.40																				.97			.03			2.93
High Lookout	Black	.40					.41												1.50							T.							2.31
Jackson	Mississippi	.80				.15		.01																		.89			.28				2.13
Jerome[2]	Gasconade	1.01				.32	T.									T.										T.							1.33
Koshkonong[2]	Black	.30					.64												1.53						.16								2.63
Leeper[2]	do	.90					.15	T.											.02						T.		.29			T.			1.36
Licking[2]	Gasconade	.89																															0.89
Macedonia Lookout[2]	Black						.33												.61								.28						1.22
Marble Hill	Mississippi	2.20				.34																							.39				2.93
Morehouse	do	.46				.12													T.							.24			.18				1.00
Moselle[2]	Meramec																																....
New Madrid[2]	Mississippi	.58					.07									.57			T.	.09							T.			.33			1.64
Oates Tower[2]	Black	1.02	.01			.01	.92									T.			T.			T.				T.				.01			1.97
Owensville[2]	Gasconade	1.32				.30	.77									.11						*.20*				*.10*				.20			§3.00
Pacific[2]	Meramec	2.42				*	1.44												*.03*			*.32*											§4.21
Parma[2]	St. Francis	1.31					.08									.29			.21								.08						1.97
Perryville	Mississippi																																....
Poplar Bluff[2]	Black	.62					.21												.16								.01						1.00
Puxico[2]	St. Francis	1.51					.18																				.30			.03			2.02
Qulin[2]	do	.79					.16												.25	T.							1.85						3.05
Reynolds[2]	Black	1.20					.54																										1.74
Richwoods[2]	Meramec	4.10				*	.65															.15				.06				.45			5.41
Rolla[2]	do	1.42				.20	.30									T.			T.		T.									.04			1.96
Round Spring[2]	Black	1.38					1.80																										3.18

Continued on next page

Daily Precipitation for July 1947—Continued from preceding page

Stations	Drainage-basins	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Total
Southeastern Division —	*Concluded*																																
St. Louis:																																	
City Office[1], [5]	Mississippi	T.	....	....	....	.18	T.	....	....	....	....	....	....	T.	T.	....	....	T.	T.	....	.48	....	....	....	....	.02	....	T.	....	....	....	....	0.68
Airport[3], [5]	Missouri	T.	....	....	....	.24	.01	....	....	....	....	....	....	....	T.	....	....	T.	.10	....	.69	....	....	....	....	.02	....	T.	....	....	....	....	1.06
St. Louis Univ.[1], [5]	Mississippi	....	....	....	....	.17	....	....	....	....	....	....	....	T.	T.	....	....	....	....	....	.36	....	....	....	....	.04	....	T.	....	....	....	....	0.57
Washington Univ.[2]	....do	1.60	....	....	....	....	.31	....	....	....	....	....	....	....	....	....	....	....	.02	....	....	.33	....	....	....	....	.05	....	....	....	....	....	2.31
Salem[2]	Meramec	1.16	....	....	....	.90	.81	....	....	....	....	....	....	....	....	....	....	....	T.	....	....	....	....	....	....	....	....	.02	....	....	....	....	2.89
Sikeston[3]	Mississippi	.27	....	....	....	....	.23	T.	....	....	....	....	....	....	....	....	....	....	.07	....	....	....	....	....	....	....	.31	....	....	.77	....	....	1.65
Steelville[2] ...2½ mi. NE	Meramec	1.79	....	....	....	1.18	.17	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	T.	....	T.	*T.*	....	....	3.14
Sullivan[2]	....do	2.31	....	....	....	.23	.51	....	....	....	....	....	....	....	....	T.	....	....	.01	....	....	.43	....	....	....	.03	.01	....	T.	.60	....	....	4.13
Summersville[2]	Black	1.20	....	....	....	....	.83	....	....	....	....	....	....	....	....	....	....	....	*	.10	....	....	....	....	....	....	....	....	....	....	....	....	2.13
Union[2] ....1½ mi. SE	Meramec	.86	....	....	....	.10	.49	....	....	....	....	....	....	....	....	....	....	....	.10	....	....	.25	....	....	....	.28	....	....	.01	.07	....	....	2.16
Valley Park[2]	....do	1.83	....	....	....	T.	.41	....	....	....	....	....	....	....	....	.08	....	....	T.	....	....	.28	....	....	....	T.	.03	....	....	....	....	....	2.63
Van Buren[2]	Black	.42	....	....	....	....	.31	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	0.73
Vichy[3] ..... 2 miles NW	Meramec	T.	....	....	....	1.42	....	....	....	....	....	....	....	....	....	....	....	T.	T.	....	T.	....	....	....	....	.02	....	....	.08	....	....	....	1.52
Wappapello Dam[3]	St. Francis	.83	....	....	....	....	.24	....	....	....	....	....	....	....	....	....	....	....	.16	....	....	....	....	....	....	....	.78	....	....	T.	....	....	2.01
Webster Groves	Mississippi	.99	....	....	....	.34	....	....	....	....	....	....	....	....	.25	....	....	....	T.	....	....	.16	....	....	....	.03	....	....	....	....	....	....	1.77
Weingarten	....do	1.50	....	....	....	.60	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.50	....	....	....	....	....	2.60
West Plains[3]	Black	....	....	....	....	.11	.04	....	....	....	....	....	....	....	....	....	....	T.	1.37	....	....	....	....	....	.17	.01	....	....	....	....	....	....	1.70
Williamsville[2]	....do	1.26	....	....	....	....	.32	....	....	....	....	....	....	....	....	....	....	.24	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1.82
Willow Springs[2] 500 ft E	White	.45	....	....	....	....	.36	....	....	....	....	....	....	....	....	....	....	....	.73	....	....	....	....	....	....	....	....	....	....	....	....	....	1.54
Winona Ranger Sta.[2]	Black	.40	....	....	....	....	.45	....	....	....	....	....	....	....	....	....	....	....	.60	....	....	....	....	....	....	T.	....	....	....	....	....	....	1.45
Zalma[2]	Mississippi	.82	....	....	....	....	.46	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.04	....	....	.07	....	....	1.39
Cairo, Ill.[1], [5]	....do	.14	....	....	....	.07	.01	....	....	....	....	....	....	....	.08	....	....	....	T.	....	....	....	....	....	....	T.	T.	....	.76	....	....	....	1.06
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....

Except as otherwise indicated, amounts are for 24 hours ending late in afternoon. [1] Midnight to midnight. [2] Measured in the morning; for the preceding 24 hours. [3] Data for 24 hours ending 12:30 A. M. (C. S. T.) of following day. [5] Recording gage. T. Trace or 0.005 inch or less. * Included in next measurement. // Windshield on gage. Italics data interpolated. § Partly interpolated. (A) Record from cooperative station gage. (B) Record from river station gage. (C) Airport.
‡ Received too late to be included in means and extremes.

Daily Evaporation (inches), Mean Temperature (F°), and Wind Movement (miles) for July 1947

(See precipitation data in daily precipitation table)

Station	Data	Day of month 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Monthly
Columbia (Univ. of Mo. Hort. Exp. Sta. 9 mi. WNW.)	Evaporation	.203	.217	.262	.269	.199	.126	.222	.232	.230	.210	.208	.296	.267	.221	.254	.250	.382	.270	.278	.208	.267	.225	.233	.246	.197	.292	.306	.172	.253	.334	.225	7.554
	Mean temperature	72	72	72	72	72	72	71	68	68	70	72	77	82	78	78	77	79	77	67	70	68	62	63	66	74	80	82	82	81	86	84	74.1
	Wind movement	26	1	16	36	70	11	5	3	3	3	8	22	26	21	16	6	4	48	18	17	39	2	14	14	8	33	35	18	14	23	4	564
Lakeside (Osage Dam)	Evaporation	.292	.292	.248	.246	.440	.126	.210	.294	.266	.231	.261	.145	.275	.242	.192	.255	.267	.204	.371	.265	.222	.290	.259	.220	.206	.148	.286	.301	.277	.298	.325	7.954
	Mean temperature	76	73	74	74	71	77	73	70	69	71	72	78	81	82	82	79	79	78	70	72	66	64	65	67	75	79	82	80	84	86	86	75.3
	Wind movement	70	42	36	29	80	46	27	41	35	24	31	16	37	27	50	41	24	14	77	43	35	47	33	24	30	26	31	42	41	20	28	1,147
St. Louis (Washington University)	Evaporation	....	.225	.255	.205	.080	.146	.234	.274	.223	.225	.228	.189	.291	.229	.110	.268	.225	.234	.301	.210	.129	.194	.180	.188	.218	.074	.241	.165	.186	.290	.268	6.494
	Mean temperature	75	72	72	72	68	74	72	72	70	74	75	79	84	80	81	78	82	80	70	70	65	63	66	70	73	81	83	83	84	88	86	75.4
	Wind movement	29	27	26	4	10	4	41	51	26	23	12	6	11	8	8	24	15	13	51	22	7	31	14	5	6	2	5	11	7	8	6	513

Observations taken at 8:00 a. m. except at 5:00 p. m. at Columbia. For Lakeside and St. Louis (Washington University) descriptions see April 1932 and August 1938 reports, respectively. * Included in next measurement.

Missouri Storms, July 1947

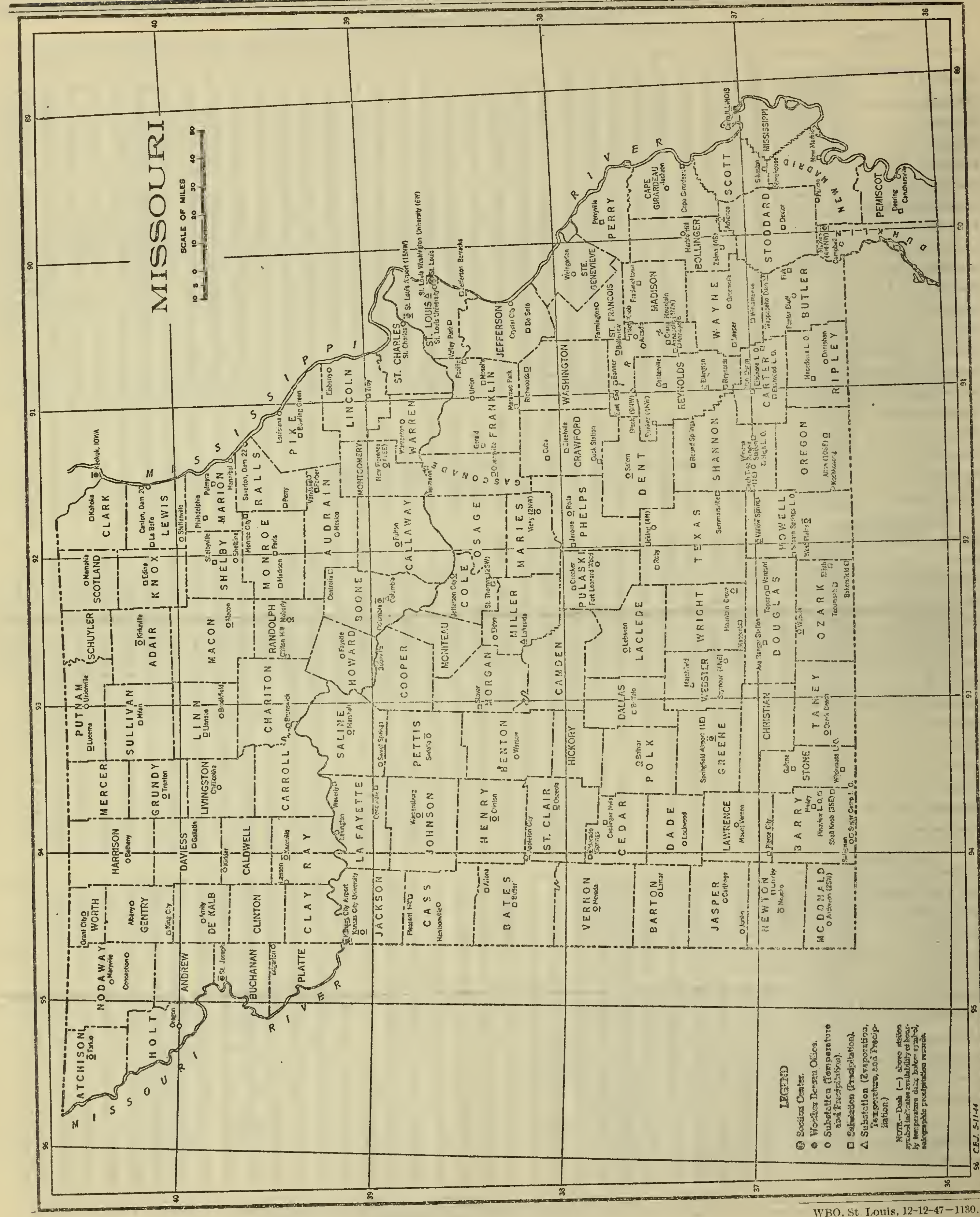
County	Date	Time	Nature of storm	Storm moved from	Width of path (miles)	Length of path (miles)	Loss of life	Property damage (estimated)	Remarks
Audrain	5	Afternoon	High wind and electrical storm	NW	....	....	0	Unknown	Storm occurred at Mexico and vicinity. Trees and wires were blown down and broken, several farm buildings and outbuildings were damaged and windows of a few rural residences were broken. Some damage occurred to the oat, wheat and corn crops but amount of damage not reported. Light hail accompanied the storm with some stones ½ inch in diameter. Three buildings were struck by lightning but no serious damage resulted.
Miller	5	6:00 a.m.	Thunderstorm	......	....	....	1	Minor	A minister was killed when lightning struck a tent pole and set the tent afire at a religious camp meeting, 13 miles southwest of Eldon. Three women in another tent were shocked but not seriously injured by the bolt of lightning.
Nodaway	12	....	High wind	......	....	....	0	Minor	Wires and trees damaged at Maryville.
St. Louis City	14	Between 9:50 a.m. and noon	Wind and thunderstorm	NW	....	....	0	Minor	Some trees and wires were blown down and some shingles were ripped from roofs of a few buildings. Lightning damaged two power transformers and knocked down a tree. Light hail reported in St. Louis County and in south St. Louis.
Callaway	28	Between 6:00 a.m. and 9:00 a.m. and in afternoon	High wind and thunderstorms	NW	....	....	0	Considerable from lightning but minor from wind	Early morning thunderstorms accompanied by high wind damaged trees, wires and porches and lightning struck a home and two barns in the Fulton area, resulting in the destruction of one barn and contents of hay, feed, farming implements and harness. During the afternoon lightning struck another barn, 8 miles south of Fulton, burning it to the ground with loss of its contents of hay, feed, farm equipment and harness. Several head of livestock were destroyed by this thunderstorm.
Franklin	28	Between 7:00 a.m. and 8:00 a.m.	High wind	N	10	20	1	$2,000	Storm occurred over a strip 20 miles long and 10 miles wide extending from north to south of Gerald. Fruit trees were stripped of 25% of their fruits and some trees were uprooted and roofs of buildings damaged. Property loss estimated at $2,000 but damage to fruit not known. At Stanton, a man was killed by a falling tree during a windstorm at that place.

Time used on this tabulation is Central Standard Time, unless otherwise indicated.

Daily Temperatures for July 1947

Stations		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Northern Division																																	
Brunswick /	Maximum	83	84	86	85	76	84	82	82	82	84	87	91	97	87	89	90	90	81	79	82	74	77	84	81	82	93	95	89	100	104	88	86.1
	Minimum	61	61	65	69	69	67	65	60	58	58	60	67	72	74	70	68	68	70	57	57	57	52	52	55	60	67	70	72	73	73	74	64.5
Chillicothe 2 mi ESE(C)	Maximum	83	84	87	89	83	83	81	81	73	85	85	93	96	88	89	91	88	82	79	84	76	78	80	81	83	94	97	94	101	102	89	86.7
	Minimum	56	60	64	66	69	66	61	55	54	58	64	66	70	67	67	66	70	58	53	60	52	50	52	52	65	66	70	72	69	74	69	62.6
Columbia	Maximum	82	84	85	85	77	85	82	82	81	82	86	88	93	89	89	90	92	82	79	84	76	77	80	82	83	95	96	85	96	104	90	85.8
	Minimum	65	62	65	65	67	63	65	59	61	58	63	70	75	70	70	67	70	64	56	61	57	56	54	58	69	69	72	72	70	75	73	65.2
Fayette	Maximum	82	85	84	82	75	84	81	81	81	84	86	90	93	89	89	89	90	80	80	83	81	76	78	81	82	92	95	91	98	102	97	85.8
	Minimum	60	61	62	64	61	63	62	57	58	55	59	67	73	69	69	66	67	60	55	57	55	49	49	54	65	64	68	70	66	71	70	62.1
Grant City	Maximum	82	85	85	85	82	83	80	80	82	85	85	93	91	90	90	93	85	75	80	85	75	78	80	78	84	94	97	94	101	102	96	86.3
	Minimum	55	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	70	....
Hannibal	Maximum	82	79	84	83	72	81	78	80	82	83	85	90	91	88	86	86	92	81	71	82	73	75	79	83	84	93	92	90	95	99	87	84.1
	Minimum	62	62	59	64	64	62	63	59	59	61	63	70	73	72	68	67	69	63	55	58	58	52	53	55	62	67	73	72	68	73	71	63.8
Kansas City Airport	Maximum	86	91	89	89	90	88	85	82	83	89	88	96	95	92	93	91	90	81	82	83	77	79	85	71	86	94	100	102	105	107	90	89.0
	Minimum	62	66	70	69	75	71	67	62	61	65	70	74	66	71	74	71	75	66	59	63	60	58	62	63	64	71	75	78	81	82	75	68.6
Kirksville	Maximum	85	83	87	84	82	85	81	83	82	86	82	90	95	92	90	90	91	83	81	85	77	78	80	82	82	94	94	84	94	98	87	86.0
	Minimum	57	70	61	68	66	66	50	55	56	56	60	67	72	65	77	66	67	65	53	57	52	48	51	54	64	66	74	66	69	72	70	62.6
Lathrop	Maximum	83	86	85	85	83	84	85	82	84	85	85	92	90	89	92	94	90	79	82	82	74	77	78	74	81	92	96	95	101	101	96	86.5
	Minimum	54	59	63	65	70	65	62	55	55	60	65	68	66	69	68	67	73	63	51	60	53	50	54	54	62	67	70	72	71	74	69	63.0
Louisiana	Maximum	82	84	84	82	78	85	81	84	84	84	87	90	93	90	88	89	93	84	79	84	80	77	79	83	83	94	95	93	95	102	91	86.4
	Minimum	65	56	55	60	66	61	60	54	53	60	59	67	71	74	..	..	..	..	60	53	56	43	45	48	59	69	79	..	..	..	75	^{g}60.3
Macon /	Maximum	83	81	85	83	77	84	79	80	81	84	85	90	93	89	88	89	90	81	79	85	75	76	79	83	82	95	94	81	94	100	87	84.9
	Minimum	62	60	61	64	67	66	65	56	56	60	64	69	73	71	68	67	69	67	54	60	53	48	51	58	59	56	71	67	67	72	70	62.9
Maryville	Maximum	82	85	85	85	80	84	83	81	82	84	86	93	87	86	88	90	84	76	76	78	75	76	79	74	81	92	92	93	97	97	90	84.5
	Minimum	55	60	60	64	70	63	61	59	56	57	66	65	64	67	70	68	72	60	52	59	53	52	53	53	61	65	71	70	70	69	68	62.4
Mexico /	Maximum	79	81	84	84	74	82	79	80	81	82	85	91	90	84	86	87	89	81	76	81	73	75	79	82	82	93	95	77	93	100	88	83.6
	Minimum	61	60	60	62	66	61	61	54	55	58	62	69	71	74	68	65	68	70	54	59	54	47	49	57	60	68	71	68	68	71	73	62.7
Moberly /.... 3½ mi. NE	Maximum	80	81	84	82	84	81	81	81	80	83	85	89	92	88	88	89	89	81	79	82	75	75	78	82	82	92	94	82	94	99	86	84.5
	Minimum	60	60	62	64	67	61	55	56	56	57	63	69	76	69	68	67	68	70	54	61	52	48	54	56	62	66	72	65	69	74	72	63.0
Oregon	Maximum	85	88	86	86	87	86	85	83	84	85	85	94	92	91	90	91	86	79	80	82	78	78	77	73	83	92	98	96	98	103	87	85.7
	Minimum	56	61	65	69	71	66	63	60	59	61	69	70	64	68	70	70	71	62	54	60	54	55	56	55	60	69	69	75	73	76	70	64.5
St. Charles /	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
St. Joseph Airport	Maximum	85	89	88	88	86	86	86	84	85	87	89	96	93	92	92	95	84	81	82	85	76	80	83	69	85	94	99	99	104	104	88	88.2
	Minimum	57	61	67	68	72	68	65	62	58	61	67	71	65	69	71	70	74	62	55	61	56	56	56	57	63	70	74	75	74	75	73	65.6
Trenton	Maximum	85	85	88	88	84	86	84	85	85	86	87	94	95	91	90	92	87	83	82	86	81	78	80	80	84	95	94	93	99	103	100	88.1
	Minimum	56	61	64	66	69	67	63	57	59	58	64	66	72	69	69	68	69	65	66	61	54	50	54	54	64	66	75	74	70	75	70	64.4
Unionville /	Maximum	84	83	85	81	80	82	80	79	83	85	80	90	92	91	87	91	89	79	80	82	74	78	82	82	82	95	96	85	95	102	93	85.4
	Minimum	55	57	60	64	63	66	60	54	53	58	60	67	71	68	64	64	67	62	52	55	51	45	47	53	60	65	71	71	69	73	67	61.0
Warrenton	Maximum	81	81	83	83	77	84	81	87	81	84	85	89	91	89	89	88	92	89	78	82	81	75	78	82	83	93	92	90	94	99	94	85.6
	Minimum	65	58	55	59	63	60	60	53	51	57	59	69	69	69	68	63	65	72	55	54	51	43	46	52	63	68	70	69	65	72	71	61.1
Keokuk, Iowa	Maximum	84	79	84	83	76	82	78	82	83	86	86	91	93	93	86	88	95	82	80	84	73	76	80	84	83	95	94	92	95	101	85	85.6
	Minimum	62	60	65	68	69	66	64	62	61	63	66	70	75	70	68	69	72	65	60	64	56	57	55	61	68	72	68	73	72	76	70	66.0
Southwestern Division																																	
Clinton	Maximum	84	89	88	87	87	89	84	82	85	85	89	94	96	93	97	92	88	85	86	90	81	80	83	72	84	95	99	99	102	105	103	89.5
	Minimum	63	60	62	63	70	70	65	58	55	56	61	69	69	74	72	66	71	71	55	62	56	52	51	60	62	66	68	70	71	71	70	64.2
Eldon	Maximum	85	85	85	81	76	84	86	79	80	81	84	..	91	89	88	91	89	82	79	84	80	75	78	79	84	91	95	90	99	102	100	^{a}85.7
	Minimum	65	61	62	62	67	65	63	56	57	57	61	..	65	71	68	67	69	71	56	58	55	51	50	57	65	67	69	72	67	73	72	^{a}63.3
Harrisonville /	Maximum	83	81	85	85	88	89	84	81	84	85	86	93	96	91	94	92	93	84	83	81	79	78	81	81	83	93	98	98	102	106	98	88.2
	Minimum	57	61	63	64	70	70	65	59	57	59	63	66	66	68	68	68	74	68	54	61	56	56	55	60	60	65	68	72	72	71	72	64.1
Jefferson City	Maximum	81	84	84	84	78	85	81	82	82	83	86	90	92	89	89	89	91	82	79	84	79	76	79	83	86	94	97	87	90	104	96	86.0
	Minimum	66	58	59	61	65	63	65	58	55	55	58	65	72	70	67	64	64	71	56	56	57	47	46	51	65	67	69	69	63	69	69	61.9
Joplin Airport	Maximum	81	86	90	90	88	87	85	81	83	86	89	94	94	95	95	93	99	84	83	90	79	79	84	72	89	94	96	100	103	102	103	89.4
	Minimum	64	60	64	62	72	68	65	59	57	60	62	67	71	76	73	73	72	65	58	62	62	57	52	58	65	68	69	72	70	71	71	65.3
Lamar /	Maximum	80	84	85	86	85	86	83	80	82	83	85	90	90	91	92	89	91	83	81	89	77	76	78	72	83	90	92	94	95	98	98	86.1
	Minimum	65	59	61	62	64	70	65	60	55	56	58	62	67	71	67	67	71	69	56	60	60	56	52	56	57	65	67	69	69	69	68	63.0
Lebanon /	Maximum	81	85	88	84	80	87	81	82	82	84	81	90	90	90	93	90	89	83	81	87	76	80	83	76	87	93	97	98	102	103	106	87.5
	Minimum	65	56	59	60	54	64	62	55	52	52	60	66	67	71	69	63	64	67	52	56	57	48	47	58	60	65	68	68	68	70	70	61.1
Lexington /	Maximum	85	90	88	87	90	87	84	80	82	87	81	95	95	92	93	92	90	80	82	82	75	78	84	70	85	94	98	99	102	106	88	87.8
	Minimum	58	62	64	65	67	68	65	59	61	61	64	62	67	67	72	62	70	68	58	59	56	54	54	58	62	64	72	78	72	75	74	64.5
Marshall	Maximum	80	83	85	85	82	84	81	80	80	82	86	90	92	88	89	88	90	82	79	81	80	74	78	78	81	92	93	95	100	102	100	85.8
	Minimum	60	62	64	65	67	66	64	57	59	59	66	70	70	69	70	69	72	70	56	57	57	51	54	57	66	68	71	70	72	75	72	64.7
Mountain Grove	Maximum	90	85	84	81	75	87	82	81	82	83	86	91	92	92	94	92	88	87	80	85	80	77	75	76	86	91	93	93	96	100	102	86.6
	Minimum	67	55	62	61	62	67	63	55	53	53	61	65	69	72	70	62	64	69	56	59	60	52	53	58	65	67	69	70	72	71	74	63.1
Neosho	Maximum	90	85	87	88	86	87	87	81	83	85	88	92	92	95	95	95	97	97	82	89	90	80	82	77	89	94	96	99	102	103	102	90.2
	Minimum	67	54	58	58	68	70	61	53	50	52	59	65	68	71	73	71	68	71	53	58	59	50	47	59	64	65	66	65	66	66	65	61.9
Nevada	Maximum	85	89	90	89	88	90	89	85	87	89	88	93	98	95	96	94	92	86	87	91	89	83	84	69	87	92	95	98	100	102	105	90.5
	Minimum	65	57	61	61	70	70	66	60	54	57	59	67	70	70	70	65	71	71	57	60	61	56	52	58	63	64	68	69	69	69	67	63.8
Sedalia	Maximum	82	84	86	86	89	84	84	80	82	83	86	91	95	92	92	90	88	82	80	84	81	78	80	78	82	93	96	93	100	104	98	87.2
	Minimum	62	60	63	65	67	66	63	57	58	55	64	70	72	70	71	75	71	70	52	61	53	54	54	57	65	69	70	72	73	73	72	64.6
Springfield....4 mi. NW	Maximum	78	85	84	82	82	83	80	78	80	84	86	90	92	93	89	88	87	78	77	83	75	74	76	74	83	92	93	96	100	100	100	85.2
	Minimum	63	59	62	63	67	70	62	58	55	56	61	66	68	71	64	69	70	64	57	58	57	54	53	57	65	67	69	67	70	70	72	63.4
Warrensburg	Maximum	81	85	86	86	84	86	84	81	82	84	86	91	94	91	91	90	88	81	81	84	81	78	81	77	82	92	96	96	100	103	102	86.3
	Minimum	61	63	65	66	70	69	67	60	60	59	66	71	69	71	72	70	74	71	57	61	58	56	56	59	65	69	70	73	73	75	74	66.1
Southeastern Division																																	
Arcadia /	Maximum	84	85	84	84	73	89	84	84	83	85	87	90	94	90	94	91	95	90	84	86	80	79	80	84	84	95	100	88	98	103	107	88.2
	Minimum	65	55	53	53	57	62	62	55	53	56	55	60	63	69	67	63	62	65	58	50	55	45	43	48	55	63	69	69	62	65	69	58.9
Birch Tree.... ½ mile E	Maximum	90	85	85	86	82	..	..	82	82	84	85	93	94	92	96	92	95	90	83	85	82	77	81	80	90	94	97	94	101	106	108	^{b}89.4
	Minimum	67	67	55	59	63	..	..	57	54	52	54	59	64	69	66	62	61	69	55	52	57	49	44	58	63	64	64	65	62	67	69	^{b}60.2
Caruthersville	Maximum	90	83	83	84	83	85	86	84	81	82	84	88	91	92	93	91	90	89	85	82	80	77	79	82	88	90	92	90	92	93	96	86.6
	Minimum	70	69	65	64	65	71	63	66	63	62	64	67	69	71	71	71	71	71	66	62	65	59	54	63	70	71	71	71	71	70	69	66.9
Crystal City	Maximum	95	83	82	83	80	87	84	85	83	85	87	93	93	90	91	88	93	89	83	85	82	78	80	84	82	96	96	91	96	104	103	88.1
	Minimum	68	60	56	57	63	67	66	61	56	60	59	67	71	70	68	65	65	71	59	52	55	45	45	50	61	68	72	71	65	70	74	62.5
Doniphan	Maximum	89	88	87	89	80	90	87	85	85	89	90	94	96	97	99	97	94	87	87	88	87	79	84	86	93	97	98	94	101	104	107	91.2
	Minimum	68	55	56	54	61	70	65	56	53	55	55	58	63	69	69	65	71	54	56	53	58	49	45	54	63	65	64	68	62	67	70	60.3
Farmington	Maximum	80	80	83	84	71	87	78	80	80	82	86	90	93	87	91	87	92	85	78	84	76	74	80	84	84	95	95	88	95	100	102	85.6
	Minimum	65	57	52	53	59	65	62	57	55	58	56	61	68	69	65	64	64	70	56	49	55	46	42	50	59	65	67	64	63	67	71	59.8
Jackson	Maximum	89	85	87	86	82	90	87	84	85	87	88	91	94	92	96	92	96	92	87	85	82	80	83	87	88	92	94	95	96	96	102	89.4
	Minimum	68	58	55	55	62	69	66	61	56	59	57	61	67	72	70	66	66	75	59	52	57	46	44	53	61	68	69	70	66	64	73	62.1
Poplar Bluff	Maximum	86	87	86	86	81	90	85	85	85	87	87	90	94	96	97	93	96	91	85	84	81	80	83	86	90	92	95	94	98	99	101	89.4
	Minimum	67	62	60	53	62	70	68	61	59	61	59	61	66	71	70	67	66	71	61	55	61	53	48	56	63	65	66	72	66	67	70	63.3
Rolla /	Maximum	81	78	78	78	79	79	76	76	78	78	84	83	83	87	91	87	88	80	72	85	70	70	71	82	86	94	88	88	100	102	105	83.1
	Minimum	64	60	60	59	63	60	63	57	58	56	60	63	68	72	68	66	66	70	54	55	56	51	49	57	63	69	70	70	65	73	73	62.5
St. Louis	Maximum	82	80	83	84	73	84	80	82	80	83	87	90	92	86	88	86	93	84	77	84	73	74	80	84	80	94	93	90	95	101	94	85.0
	Minimum	69	69	66	68	64	69	66	62	65	67	67	73	76	77	75	73	74	69	62	62	61	57	60	64	69	73	76	76	75	75	77	68.9
Salem /	Maximum	88	83	85	85	75	85	79	80	80	82	85	91	91	89	91	92	92	86	78	85	76	77	81	83	87	95	97	90	99	102	103	86.8
	Minimum	66	55	56	57	61	68	65	54	53	53	58	62	65	73	68	65	63	64	56	54	57	46	45	53	62	67	71	69	62	66	74	60.8
Sikeston /	Maximum	83	83	84	77	76	88	83	83	83	86	88	93	94	94	96	92	95	92	84	86	81	79	82	85	92	93	96	91	94	96	102	88.1
	Minimum	69	60	67	57	63	69	69	61	56	61	60	63	67	72	70	67	67	73	59	55	59	54	47	56	63	69	69	74	69	65	71	63.9
Union ....1½ mi. SE	Maximum	83	83	84	83	76	86	81	81	83	86	87	92	92	88	91	89	94	85	81	88	78	75	81	83	84	96	97	91	97	103	100	87.0
	Minimum	67	57	56	56	63	62	63	56	53	56	56	63	68	70	67	63	63	71	56	51	54	44	44	48	61	65	71	67	63	68	73	60.5
West Plains	Maximum	84	87	86	86	74	88	84	84	83	87	89	95	97	95	97	95	96	88	81	87	80	78	80	79	89	94	97	97	101	104	107	89.3
	Minimum	58	54	57	56	65	65	61	56	55	52	55	60	68	71	70	65	63	67	58	55	53	51	47	59	65	66	67	68	67	69	72	61.1
Cairo, Ill.	Maximum	85	84	83	84	78	88	83	82	83	85	87	89	95	90	95	90	92	90	82	86	79	76	80	82	83	91	95	90	93	92	99	86.8
	Minimum	69	66	64	65	69	74	70	66	64	67	66	69	73	75	72	72	73	73	65	63	64	58	54	61	70	73	73	70	72	69	74	68.2

/ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs. ^{a}, ^{b}, ^{c}, etc., number of days missing, for example, ^{b} indicates two days missing. Italics data interpolated. § Partly interpolated. (C) Airport.



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U. S. DEPARTMENT OF COMMERCE, WEATHER BUREAU

CLIMATOLOGICAL DATA

19

MISSOURI SECTION

H. F. WAHLGREN
ST. LOUIS, MO.

VOL. LI AUGUST 1947 No. 8

PRICE: 5 CENTS A COPY: 25 CENTS A YEAR

GENERAL SUMMARY

Unusually hot and dry weather characterized the month of August and all growing crops suffered severely during the month over most of the State.

It was the hottest August since 1936 and the second hottest month of that name since State-wide records began in 1888. The hot weather was general over the whole State, every reporting station having a monthly mean temperature considerably higher than normal. The average temperature for the month, with departures from normal, by divisions, was as follows: Northern, 83.2°, +7.6°; Southwestern, 83.5°, +6.7°; Southeastern, 83.4°, +6.4°; for the State, 83.4°, +6.8°. The lowest temperature recorded anywhere in the State during the month was 56°, and this was the highest minimum temperature for any August in the past 60 years. Daytime temperatures were also unusually high during the month, there being an average of 28 days with a maximum temperature of 90°, or higher, and 8 days with 100°, or higher, for the State as a whole. A few stations had temperatures of 90°, or higher, on every day during the month. The only relatively cool period occurred on the 14th and 15th, when daily mean temperatures dropped to normal, or slightly below, at most, but not at all stations. During the remainder of the month daily mean temperatures were considerably above normal at all stations; on some days as much as 15° to 18° above the daily normal. As a result of these persistent and unusually high day to day temperatures there were many heat prostration cases reported and numerous fatalities occurred, particularly in the larger cities.

The month was the driest of its name since 1936 and the sixth-driest August in the past 60 years. This is in marked contrast to August one year ago, which was the third-wettest August of record (1888-1947). Precipitation this month was mostly of the summer thundershower type, being moderate to excessive over small areas while adjacent areas received none, or only light amounts. The frequency and distribution of the month's rainfall was irregular, occurring on 7 or 8 days at a number of stations and only on 2 or 3 days at some other stations. Monthly totals ranged from 6.33 inches at Ellington to only 0.08 inch at Warrenton. Most stations had considerably less than normal precipitation during the month, but a few stations, in each of the three divisions of the State, had monthly totals in excess of normal. The distribution by divisions, with departures from normal, follows: Northern, 1.30 inches, −2.43 inches; Southwestern, 1.85 inches, −2.07 inches; Southeastern, 2.28 inches, −1.51 inches; for the State, 1.81 inches, —2.00 inches. There were only two, more or less general, periods of precipitation during the month, the 13-16th and 25-26th; otherwise the rainfall was local and widely scattered. Supplies of water for both domestic use and for livestock became critically short during the month in many localities, and some municipalities, whose source of supply was from drilled wells, were forced to appeal for all possible conservation of water uses by the citizens. Many wells failed and small creeks and ponds dried up entirely or became very low during the month.

Sunshine for August averaged considerably more than normal, with an average of 19 clear days, for the State as a whole.

(Continued on page 59)

PRESSURE, WIND, HUMIDITY, AND SUNSHINE

Stations	Sea-level pressure, extremes-inches				Wind				Relative humidity				Percentage of sunshine	Degree days
	Highest	Date	Lowest	Date	Average hourly velocity	Maximum velocity ¶	Direction of maximum	Date	12:30 a. m.	6:30 a. m.	12:30 p. m.	6:30 p. m.		
Columbia	30.18*	22	29.82*	6	5.3	17	s.	7	75*	82*	49*	50*	85	0
K. C. Airport	30.15	22	29.78	5	9.4	29	w.	6	64	75	45	46	79	0
St. Joseph Ap't	30.14	22	29.74	5	6.6	20	nw.	25	71	80	49	50	78	0
St. Louis	30.19*	21	29.80*	6	8.9	26	w.	14	73*	75	46	51*	80	0
Springfield	30.20	21	29.86	6	8.8	49	w.	6	78	84	46	53	80	0
Cairo, Ill.	30.21	21	29.82	6	5.5	22	se.	6	..	87	59	..	92	0
.....	.....	..	.....	..	....	..	......	..	..	..	..	..	..	....

* Data for Airport station. ¶ For 5-minute period.

COMPARATIVE DATA FOR AUGUST

Year	Temperature			Precipitation					Number of days			
	Average for State	Highest	Lowest	Average for State	Average, Northern Division	Average, Southwestern Division	Average, Southeastern Division	Snowfall, Average for State	Precip. .01 inch or more	Clear	Partly cloudy	Cloudy
1888	74.0	110	45	7.03	5.95	7.84	7.30	0	11	..	..	..
1889	73.5	101	52	1.69	1.65	2.11	1.31	0	14	..	..	..
1890	73.3	106	47	5.13	4.25	7.21	3.93	0	9	..	..	..
1891	73.2	102	38	5.29	5.96	5.14	4.78	0	8	..	..	..
1892	74.3	102	44	2.65	2.24	2.63	3.08	0	6	17	8	6
1893	72.8	100	40	1.99	2.55	1.89	1.53	0	4	18	10	3
1894	77.0	111	39	1.64	1.00	1.59	2.33	0	5	14	16	1
1895	75.3	104	46	4.02	5.45	3.51	3.09	0	8	15	11	5
1896	76.6	108	41	3.13	3.32	3.25	2.82	0	6	17	10	4
1897	74.1	108	41	2.37	2.48	2.23	2.39	0	6	19	9	3
1898	75.8	103	44	3.13	2.93	2.88	3.57	0	5	17	10	4
1899	78.8	107	49	3.13	4.19	2.76	2.45	0	7	18	10	3
1900	80.3	105	52	3.55	2.99	4.79	2.87	0	6	19	9	3
1901	78.4	109	47	2.05	1.12	2.74	2.29	0	5	19	9	3
1902	75.0	103	47	6.06	5.66	6.79	5.74	0	10	14	11	6
1903	74.5	102	43	5.00	6.54	5.01	3.44	0	10	16	11	4
1904	73.7	100	43	5.40	5.61	5.84	4.76	0	8	16	10	5
1905	76.4	99	48	4.68	4.19	5.90	3.94	0	8	19	7	5
1906	76.6	101	40	4.70	3.99	5.10	5.01	0	11	14	10	7
1907	77.3	109	47	3.89	3.92	3.90	3.85	0	9	17	8	6
1908	76.4	102	46	3.46	3.63	3.61	3.14	0	8	17	9	5
1909	79.5	110	40	0.60	0.31	0.67	0.81	0	2	24	6	1
1910	74.7	103	40	2.92	2.63	3.56	2.57	0	6	15	9	7
1911	75.4	109	41	4.33	2.81	4.97	5.21	0	7	15	8	8
1912	76.2	104	41	4.04	4.77	3.42	3.93	0	9	17	8	6
1913	82.8	110	41	1.09	1.24	0.67	1.37	0	3	22	7	2
1914	78.0	106	49	4.25	3.73	4.53	4.48	0	9	15	9	7
1915	69.8	98	37	8.19	4.99	7.57	12.02	0	12	12	9	10
1916	79.2	107	41	4.09	5.39	2.55	4.33	0	7	19	7	5
1917	73.3	104	38	4.69	3.13	5.04	5.89	0	9	16	8	7
1918	81.8	111	45	3.57	3.22	2.91	4.59	0	8	17	9	5
1919	75.7	106	44	4.33	4.41	4.47	4.12	0	8	17	9	5
1920	73.1	102	43	4.69	3.56	5.94	4.56	0	9	15	8	8
1921	76.8	109	48	5.39	5.16	6.42	4.60	0	9	14	10	7
1922	77.5	107	46	2.44	2.68	1.67	2.97	0	6	18	8	5
1923	77.3	108	42	3.81	5.47	1.87	4.08	0	8	16	9	6
1924	77.2	106	48	4.11	3.66	4.50	4.18	0	7	19	8	4
1925	76.5	107	45	3.34	5.31	2.60	2.10	0	6	19	8	4
1926	77.5	106	50	5.65	4.03	6.39	6.53	0	10	15	9	7
1927	71.1	97	39	5.09	4 19	7.04	4.04	0	9	14	10	7
1928	76.4	99	45	5.48	4.37	6.75	5.33	0	9	15	10	6
1929	76.0	105	43	2.58	1.84	2.21	3.69	0	6	18	9	4
1930	78.5	114	47	1.99	2 39	1.87	1.70	0	6	16	10	5
1931	74.9	106	44	4.97	4.03	5.66	5.21	0	9	15	9	7
1932	77.2	106	46	5.70	7.82	3.86	5.42	0	9	18	9	4
1933	75.4	103	48	3.82	4.32	3.80	3.33	0	9	13	10	8
1934	80.6	115	41	4.01	3.36	2.83	5.83	0	9	14	11	6
1935	77.7	110	45	2.20	1.60	2.73	2.26	0	6	17	9	5
1936	84.6	116	43	0.84	0.90	0.91	0.72	0	4	20	8	3
1937	80.5	105	51	2.05	2.50	2.00	1.64	0	5	17	11	3
1938	81.1	108	53	2.62	4.62	1.78	1.47	0	6	20	8	3
1939	75.4	106	45	4.80	6.30	3.76	4.34	0	9	15	11	5
1940	75.6	107	45	5.78	5.47	7.21	4.67	0	12	10	12	9
1941	79.2	106	49	3.15	2.37	3.53	3.56	0	8	15	11	5
1942	75.1	106	41	4.24	3.98	3.68	5.05	0	9	14	10	7
1943	79.8	110	44	2.46	3.00	1.92	2.47	0	6	16	11	4
1944	75.9	107	41	6.09	6.84	8.02	3.40	0	10	12	11	8
1945	76.8	103	45	2.08	1.85	1.93	2.45	0	5	18	9	4
1946	74.0	111	37	5.64	4.67	5.63	6.61	0	9	13	9	9
1947	83.4	109	56	1.81	1.30	1.85	2.28	0	5	19	9	3
.....	....	...	..	....	....	....	....	.	..	..	..	..
Period	**76.6**	**116**	**37**	**3.81**	**3.73**	**3.92**	**3.79**	**0**	**8**	**17**	**9**	**5**

Climatological Data for August 1947

Stations	Counties	Elevation, feet	Temperature, in degrees Fahr.							Precipitation, in inches						Number of days				Prevailing direction of wind	Observers
			Length of record, years	Mean	Departure from the normal	Highest	Date	Lowest	Date	Length of record, years	Total	Departure from the normal	Greatest in 24 hours *	Date	Total snowfall, unmelted	With precip., .01 inch or more	Clear	Partly cloudy	Cloudy		
Northern Division																					
Albany	Gentry	930	6	82.3	......	106	30	58	15	18	1.71	−1.89	1.27	16	0	5	23	6	2	s.	William J. Butler
Amity	DeKalb	1,007	1	82.6	......	104	30	62	15	12	2.47	−1.73	1.70	16	0	4	21	6	4	se	O. M. Colhour
Bethany	Harrison	916	52	82.8	+ 7.8	105	30	60	15	54	1.75	−2.07	0.80	16	0	3	21	8	2	se.	B. A. McGregor
Brookfield	Linn	767	6	85.3	......	107	30	65	9	6	0.96	......	0.40	16	0	3	27	3	1	s.	G. F. Breen
Brunswick	Chariton	652	66	84.0	+ 9.8	103	30	68	9†	68	1.26	−2.68	0.53	15	0	4	20	7	4	ne.	O. K. Benecke
Canton, Lock & Dam 20	Lewis	488	9	84.5	+ 8.2	103	30	63	1	17	1.03	−2.13	0.85	31	0	4	20	8	3	s.	Lockmaster
Carrollton	Carroll	754	1	82.8	......	102	2†	65	9†	1	2.93	......	2.26	14	0	5	24	6	1	s.	Harold E. Finley
Chillicothe 2 mi ESE(C)	Livingston	771	38	82.9	+ 7.4	105	30	65	9	41	1.21	−2.75	0.57	13-14	0	5	18	9	4	s.	Civil Aeronautics Adm.
Columbia	Boone	740	57	85.0	+ 8.7	104	30	68	1	57	1.20	−2.40	0.42	7	0	6	23	7	1	s.	U. S. Weather Bureau
Conception	Nodaway	1,108	58	83.4	+ 8.7	104	9	63	15†	63	1.48	−2.16	0.95	15-16	0	3	20	9	2	s.	Fr. Adelhelm Hess
Edgerton	Platte	856	27	83.0	+ 7.9	106	30	64	27	44	1.21	−2.83	0.77	13-14	0	4	19	11	1	se.	Leroy H. Mindrup
Elsberry	Lincoln	449	16	81.6	+ 5.1	102	6	56	1	16	1.81	−1.45	1.26	27	0	5	25	4	2	w	Soil Conservation Service
Fayette	Howard	760	67	82.8	+ 6.9	103	30	63	9	64	0 88	−2 68	0.30	15	0	4	23	4	4	sw.	Irvin E. Schnell
Fulton	Callaway	818	59	82.3	+ 5.9	102	30	61	9	55	0.50	−3.15	0.28	13-14	0	3	20	11	0	sw.	Frank E. Hillgartner
Grant City	Worth	1,134	43	83.0	+ 8.1	103	2†	60	15	55	2.29	−1.65	1.66	16	0	3	22[a]	4[a]	4[a]	s.	J. Homer Korn
Hannibal	Marion	759	55	83.4	+ 8.4	103	30	64	1	63	0.24	−3.10	0.15	15	0	4	19	8	4	s.	Hannibal Water Dept.
Kansas City Airport	Jackson	741	58	86.2	+ 9.6	106	9	70	26	58	4.35	+0.81	2.73	13-14	0	5	21	6	4	sw.	U. S. Weather Bureau
Kansas City Univ.	Jackson	908	9	85 2	+ 6.6	105	9†	68	26†	9	3.20	−1.29	1.53	24-25	0	5	19	8	4	sw.	University of Kansas City
Kidder	Caldwell	1,020	55	82.3§	+ 6.9	105	30	64	15	59	1.70	−2.26	0.75	25	0	4	24	4	3	s.	Mrs. Geraldine Terry
Kirksville	Adair	969	58	82.6§	+ 8.6	104	30	63	1†	65	1.42	−2.70	0.61	15-16	0	6	24	6	1	sw.	Arthur Lee Jones
Kirksville Airport	Adair	970	8	82.2	......	102	30	63	9	8	0.35	......	0.21	16	0	3	16	10	5	sw.	Civil Aeronautics Adm.
Lathrop	Clinton	1,071	0	82.8	......	104	30	65	15	0	2.30	......	1.20	13-14	0	4	24	6	1	s.	E. L. Fisher
Louisiana	Pike	469	53	83.1	+ 8.2	103	30	59	9	66	0.34	−4.20	0.09	14†	0	6	23	7	1	ne.	Stark Bro's Nurseries
Macon	Macon	875	48	82.4	+ 6.3	102	24	61	16	54	4.19	+0.38	3.74	25	0	4	26	2	3	ne.	John W. Atwell
Maryville	Nodaway	1,169	57	80.5	+ 6.7	99	9	60	26	53	2.06	−1.92	1.68	15-16	0	3	21	6	4	s.	R. B. Montomery
Memphis	Scotland	787	8	83.0	......	104	24†	61	1	17	1.60	−2.37	0.75	31	0	5	16	13	2	sw.	John W. Alexander
Mexico	Audrain	800	58	83.0	+ 7.0	103	30	63	1	69	1.08	−2.77	1.06	14-15	0	2	18	8	5	s.	Darrence W. Stuart
Moberly .....3½ mi. NE	Randolph	860	10	83.4	+ 7.7	103	30	62	9	10	0.35	−3.46	0.23	25	0	4	25	4	2	sw.	Robert A. Berg
New Florence. 1 mi SE	Montgomery	885	4	82.4	......	100	30	62	1	5	0.16	......	0.08	12	0	4	17	11	3	s.	U. S. Weather Bureau
Oregon	Holt	1,048	91	82.9	+ 7.7	103	2†	63	15	91	1.46	−2.34	0 94	15-16	0	4	26	2	3	s.	James M. Curry
Polo	Caldwell	1,000	1	83.0	......	103	30	66	15	1	1.82	......	0.92	25	0	6	19	11	1	s.	F. B. Albright
St. Charles	St. Charles	520	59	84.6	+ 7.8	103	3†	62	1	69	0.71	−3.53	0.68	14	0	2	18[a]	5[a]	7[a]	se.	Mrs. Myrtle Bregel
St. Joseph Airport	Buchanan	957	37	84.4	+ 7.9	105	9	65	15	75	0.76	−3.07	0.34	13-14	0	5	25	2	4	s.	U. S Weather Bureau
Salisbury	Chariton	723	1	83.6	......	103	30	62	9	1	1.66	......	1.03	25-26	0	5	24	6	1	s.	David H. Robertson
Saverton, Lock No. 22.	Ralls	472	9	83.4	......	102	6†	65	15	9	1.78	−2.68	1.28	31	0	4	28	3	0	sw.	Lockmaster
Shelbina	Shelby	779	6	83.4	......	104	30	62	1	54	0.67	−3.05	0.28	16	0	5	20	6	5	sw.	Guyman Hatcher
Steffenville	Lewis	650	49	84.2	+ 7.7	104	10†	60	1	54	0.58	−3.46	0.27	20	0	6	21	9	1	s.	Mrs. Fannie V. Gross
Tarkio	Atchison	916	44	81.4	+ 6.2	102	30	60	27	53	1.17	−2.73	0.61	16	0	2	19	6	6	s.	Civil Aeronautics Adm.
Trenton	Grundy	822	51	83.8	+ 8.6	106	30	63	15	52	1.94	−1.94	0.98	15	0	5	25	5	1	s.	W. H. Estes
Unionville	Putnam	1,062	54	81.4	+ 6.6	103	30	59	15	54	1.74	−2.54	0.81	31	0	7	17	11	3	s.	George D. Choate
Vandalia	Audrain	766	3	82.4	......	102	30	60	1	8	0.45	......	0.30	24	0	2	21	10	0	e.	Mrs. Naomi K. Stoutz
Warrenton	Warren	816	65	82.9	+ 6.4	103	30	60	9	57	0.08	−3.59	0.05	14	0	2	21	9	1	sw.	W. T. Zimmerman
Keokuk, Iowa	Lee, Ia.	574	75	84.8	+ 9.8	103	24	60	1	75	0.71	−2.49	0.56	31	0	5	18	12	1	sw.	U. S. Weather Bureau
Division means	**and extremes**	....	..	**83.2**	**+ 7.6**	**107**	**30**	**56**	**1**	..	**1.30**	**−2.43**	**3.74**	**25**	**0**	**4**	**21**	**7**	**3**	**s.**	
Southwestern Division																					
Anderson ...1½ mi SW	McDonald	1,000	43	80.6	+ 2.9	104	9	61	5†	48	0.93	−3.19	0.55	16	0	4	26	4	1	sw.	Samuel G. Chamberlain
Appleton City. 2 mi. W	Bates	813	52	83.0	+ 5.2	104	9†	66	27†	55	2.92	−1.04	2.52	13-14	0	4	21	9	1	sw.	F. Paul Eye
Bolivar	Polk	1,071	44	83.9	+ 7.0	104	9†	62	29	52	2.15	−1.71	0.98	14-15	0	7	18	9	4	sw.	Southwest Baptist College
Boonville	Cooper	650	9	82.0	+ 5.8	102	30	64	9	70	2.98	−1.57	1.83	14-15	0	4	16	13	2	s.	Boonville Water Dept.
Butler	Bates	865	1	83 2[f]	......	105[c]	31	62[j]	13	6	1.40	......	1.03	13-14	0	4	18[c]	7[c]	3[c]	se.	Harley W. Johnson
Camdenton	Pulaski	940	1	85.3	......	105	31	67	27	1	2.26	......	1.33	15	0	4	16	11	4	sw.	Mo. Conservation Com.
Carthage	Jasper	962	13	84.0	......	109	31	63	29	23	0.57	......	0.30	14-15	0	5	11	19	1	sw.	Carthage W. and E. Plant
Clinton	Henry	786	54	84.7	+ 7.1	107	31	65	27	60	2.26	−1.39	2.12	14	0	2	23	5	3	s.	U. S. Weather Bureau
Eldon	Miller	934	52	83 8[b]	+ 7.4	102[b]	6†	65[b]	9	48	1.67	−1.99	0.72	25	0	5	17[b]	12[b]	0[b]	sw.	Arthur Rothwell
Harrisonville	Cass	904	69	84.2	+ 8.3	107	31	60	14	72	1.65	−2.53	0.96	13-14	0	5	21	5	5	s.	Jeffrey B. Patterson
Jefferson City	Cole	557	57	82.9	+ 6.2	104	30	60	9	65	0.82	−3 01	0.34	15	0	5	22	7	2	sw.	K W. O. S. Radio Farm
Joplin Airport	Jasper	988	25	85.6	+ 8.3	106	31	67	29	42	1.29	−2.68	1.00	14	0	4	7	16	8	s.	Civil Aeronautics Adm.
Lakeside	Miller	595	16	83.0	+ 3.9	104	30	64	9	16	1.09	−2.08	0.54	13	0	4	26	3	2	sw.	W. S. Frame
Lamar	Barton	980	59	82.1	+ 4.4	102	9†	66	29†	66	3.04	−1.25	1.33	14-15	0	7	23	3	5	sw.	Mrs. Marie Mann
Lebanon	Laclede	1,265	59	84.0	+ 7.9	105	9	64	10	60	1.15	−3.34	0.55	15	0	6	22	5	4	sw.	Mrs. Rosa E. Montelius
Lexington	Lafayette	688	62	84.5	+ 8.3	105	30	68	1†	63	2.08	−1.44	1.73	13-14	0	3	28	2	1	s.	Tilton Davis
Lockwood	Dade	1,078	41	84 4	+ 7.2	103	6†	66	29	51	5.60	+0.90	4.60	26-27	0	6	19	11	1	se.	Hubert A. Nieman
Marshall	Saline	779	60	83.5	+ 7.5	102	30	67	9	57	1.78	−2.12	0.86	15	0	6	21	9	1	s.	Thomas A. Reid
Monett	Barry	1,317	0	82.8§	......	101	31	66	29	0	1.86	......	0.66	6	0	5	18	12	1	s.	Mo. Univ. Fruit Exp. Sta.
Mountain Grove	Wright	1,463	46	82.8	+ 7.3	101	6†	67	29	50	1.32	−3.02	0.74	25-26	0	4	16	15	0	se.	Mo. Fruit Exp. Station
Mount Vernon	Lawrence	1,174	35	83.6	+ 6.9	105	31	65	29	47	0.82	−3.66	0.54	24-25	0	4	8	21	2	s.	James C. Williamson
Neosho	Newton	1,011	60	83.4	+ 6.3	105	31	64	29	64	0.70	−3 67	0.48	24	0	5	21	8	2	se.	U. S Fisheries Station
Nevada	Vernon	862	54	84.5	+ 7.4	107	9	66	27†	55	3.58	−0 19	1.85	14-15	0	3	27	1	3	sw.	Henry Kraft
Ozark Beach	Taney	700	7	84.9	......	105	31	68	10†	22	2.36	−1.97	1.32	25-26	0	6	7	24	0	sw	Empire District Elec. Co.
Sedalia	Pettis	910	34	84.0	+ 7.5	103	30	63	10	36	2.11	−3.07	0.93	15	0	3	24	5	2	sw.	Dr. J. E. Cannaday
Seligman	Barry	1,542	46	83.4	+ 7.2	101	9	66	22†	44	0.93	−3 07	0.28	16	0	6	17[a]	13[a]	0[a]	s	Floyd E. Fawver
Seymour 3½ miles NE	Webster	1,642	41	80.4	+ 5.4	99	9†	61	15	41	1.79	−2.45	1.43	25-26	0	2	25	6	0	s.	Ira H. Hailey
Springfield...4 mi. NW	Greene	1,265	59	82.4	+ 7.4	102	31	66	29	59	0.88	−3.21	0 74	25-26	0	8	18	9	4	s.	U. S. Weather Bureau
Sweet Springs	Saline	700	6	83.1	......	104	6†	64	9	6	2.40	......	1.35	15	0	5	15	16	0	s.	H. F. Nelson
Warrensburg	Johnson	878	60	84.9	+ 7.8	104	30	70	1†	67	1.71	−2.26	0.87	13-14	0	8	21	7	3	s.	Central Teachers College
Warsaw	Benton	687	46	84.8	+ 7.2	107	31	66	27	52	2 06	−2.56	0.90	12	0	6	20	8	3	se.	Dora B. Johnson
Wasola	Ozark	1,294	6	83.0	......	103	6	66	17†	7	2.48	......	1.27	25-26	0	5	23	7	1	s.	A. W. Pinckney
Waynesville	Pulaski	805	1	..	......	..	..	..	..	1	..	......	..	..	...	..	..	..	..	......	Jesse H. Barlow
Division means	**and extremes**	....	..	**83.5**	**+ 6.7**	**109**	**31**	**60**	**9†**	..	**1 85**	**−2.07**	**4.60**	**26-27**	**0**	**5**	**19**	**10**	**2**	**s.**	
Southeastern Division																					
Advance.... ¼ mile W	Stoddard	354	10	83.5	+ 6.2	107	5	66	21†	10	1.85	−1.96	0.53	15	0	5	18	10	3	sw.	U. S. Weather Bureau
Arcadia	Iron	926	66	82.4	+ 8.1	106	3†	62	9	69	2.00	−2.37	1.01	25	0	6	17	11	3	s.	Arcadia College
Birch Tree... ½ mile E	Shannon	1,000	52	82.4	+ 6.3	104	2†	64	9†	53	2.73	−2 03	1.23	15	0	6	18	13	0	se.	Mrs. Mildred E. Catlett
Black.......9 miles NW	Iron	1,000	54	79.3§	+ 4.8	102	2†	58	9	54	3.49	−0.75	2.53	14-15	0	4	15	16	0	sw.	M. L Volner
Campbell	Dunklin	314	21	83.6[e]	+ 6.4	104[e]	4†	67[e]	8	21	1.49	−4.49	1.12	16	0	7	18[d]	9[d]	0[d]	se.	Mrs. Ruth Christian
Cape Girardeau	Cape Girardeau	347	2	83 5	......	104	3	68	27	47	3.28	−0.62	1.75	31	0	7	8	15	8	ne.	Dr. Robert Martin
Caruthersville	Pemiscot	265	51	83.8	+ 3.5	99	4†	70	25	55	0.74	−2.95	0.48	15	0	2	24	6	1	s.	Victor T. Mallourc
Clearwater Dam	Wayne	648	1	82.7	......	105	2†	65	9	1	2.92	......	1.17	15-16	0	6	23	3	5	s.	U. S. Engineer Office
Crystal City	Jefferson	420	13	83.8	+ 5.6	103	1†	64	9	13	3.57	+1.14	2.96	25-26	0	3	15	7	9	se.	Richard K. Ragland
Doniphan	Ripley	344	43	84.0	+ 6.4	108	5†	58	26	43	3.87	−0.37	2.61	16	0	8	22	6	3	s.	Boyce Lackey
Farmington	St. Francois	896	36	82.0	+ 6.6	104	6	62	9	50	2.50	−1.80	1.40	25-26	0	5	12	7	12	s.	F. M. Karsch
Greenville	Wayne	460	38	....	......	..	..	..	..	40	....	......	....	..	0	..	..	..	..	......	Beuford Shoemake
Jackson	Cape Girardeau	428	56	84.2	+ 8.1	105	3†	67	21	57	2.70	−1.38	1.30	31	0	8	16	15	0	s.	Danny Siebert
Koshkonong	Oregon	958	46	84.8	+ 6.9	103	1†	68	27†	47	0.46	−3.70	0.20	12	0	7	22	7	2	se.	Mrs. Genevieve T. Smith
Licking...... 4 miles N	Texas	1,170	10	81.9[e]	+ 5.2	101	3†	61[f]	29	10	1.93	−0.41	1.45	26	0	3	18[b]	4[b]	7[b]	s.	Fern E. Austin

Continued on next page

Climatological Data for August 1947—Continued from preceding page

Stations	Counties	Elevation, feet	Temperature, in degrees, Fahr.							Precipitation, in inches						Number of days				Prevailing direction of wind	Observers
			Length of record, years	Mean	Departure from the normal	Highest	Date	Lowest	Date	Length of record, years	Total	Departure from the normal	Greatest in 24 hours[4]	Date	Total snowfall, unmelted	With precip., .01 inch or more	Clear	Partly cloudy	Cloudy		
Southeastern Division—	*Concluded*																				
Marble Hill	Bollinger	532	52	83.0	+ 6.0	107	5†	63	8	54	4.11	−0.01	0.96	14–15	0	9	23	8	0	s.	R. A. DeWitt
Poplar Bluff	Butler	339	42	83.6	+ 5.6	105	6	68	21†	43	1.24	−3.33	0.63	15–16	0	6	21	5	5	s.	Osmon M. Richardson
Rolla	Phelps	1,202	47	82.2	+ 6.0	102	3	66	27	63	1.04	−3.40	0.37	7	0	6	17	14	0	w.	Rolla School of Mines
St. Louis:																					
City Office		465	110	85.6	+ 8.1	102	24	64	1	110	1.55	−1.44	0.95	19–20	0	6	20	7	4	sw.	**Section Center**
St. Louis Airport	St. Louis	556	10	84.9	+ 8.5	104	6	62	1	16	0.55	−2.47	0.46	14–15	0	3	20	7	4	s.	U. S. Weather Bureau
St. Louis University	St. Louis City	578	35	85.0	+ 7.2	103	6	64	1	35	2.05	−1.89	1.34	20	0	6	23	7	1	se.	St. Louis University
Salem	Dent	1,206	43	82.6	+ 6.7	103	6	64	9	46	0.93	−3.64	0.39	7	0	5	23	8	0	s.	E. E. Martin
Sikeston	Scott	318	40	85.4	+ 7.8	106	5†	69	27	50	1.67	−2.13	1.14	25–26	0	7	6	24	1	s.	Mrs. Lucy W. Humphreys
Union ....1½ mi. SE	Franklin	520	9	83.3§	+ 5.3	106	24	60	9†	30	0.38	−4.32	0.21	7	0	4	18	9	4	s.	Cornelius Sieges
Vichy ....2 mi. NW	Maries	1,125	11	84.1	......	103	3†	67	1†	12	0.91	......	0.48	26	0	3	16	11	4	sw.	Civil Aeronautics Adm.
Wappapello Dam	Butler	475	8	83.4	......	106	3	68	26†	8	5.89	+1.64	3.21	25–26	0	6	25	4	2	sw.	U. S. Engineer Office
Webster Groves	St. Louis	507	1	83.2	......	104	6	62	1	2	1.16	......	0.57	25	0	4	18	11	2	se.	R. W. Lawrie
Weingarten	St. Genevieve	833	6	83.6	......	104	6	63	7	7	1.48	......	0.98	7	0	5	9	22	0	s.	William J. Miller
West Plains	Howell	1,005	10	83.8	+ 6.8	105	6	66	21†	10	1.39	−1.34	0.88	26–27	0	7	12	15	4	s.	U. S. Weather Bureau
Willow Springs 500 ft E	Howell	1,238	6	81.7	......	99	1†	64	29	40	0.93	−3.15	0.69	25	0	2	16	12	3	s.	Allen Frazee
Cairo, Ill.	Alexander, Ill.	314	75	84.8	+ 6.0	103	5	72	27	76	0.87	−2.15	0.46	15	0	5	12	13	6	sw.	U. S. Weather Bureau
Division means	**and extremes**	.....	..	83.4	+ 6.4	108	5†	58	9†	..	2.28	−1.51	3.50	25	0	5	18	10	3	s.	
State means	**and extremes**	.....	..	**83.4**	**+ 6.8**	**109**	**31**	**56**	**1**	..	**1.81**	**−2.00**	**4.60**	**26–27**	**0**	**5**	**19**	**9**	**3**	**s.**	

The departures from normal temperature are computed from the averages of the entire period for stations having 10 or more years of record. Departures of precipitation for stations with 15 years or more of record are computed from a normal or, "standard mean", adjusted to a uniform 35-year period; for stations of 10 to 14 years the means for the period of record are used. The normal may be found by adding the departures when minus (−) or subtracting when plus (+). Figures and letters following stations indicate distance in miles and direction of station from the city Post Office, unless otherwise indicated. T. Trace or 0.005 inch or less. ^{a}, ^{b}, ^{c}, etc., number of days missing; for example, ^{b}, indicates two days missing. Italics data interpolated. § Partly interpolated. † And other dates. ‡ Received too late to be included in means and summaries. [4] Best available used for stations not equipped with recorders. Post office address of: Altona is Adrian; Clearwater Dam is Piedmont; Crane Mountain is Arcadia; East End is Goodland; Eastwood Lookout is Van Buren; Hailey is Cassville; High Lookout is Birch Tree; Macedonia Lookout is Doniphan; Oates Tower is Centerville; Perry is Center; Pineview Lookout is Cape Fair; Sugar Camp Lookout is Seligman; Topaz is Cabool; Wilderness Lookout is Lampe. (C) Airport. ¶ Indicates plus.

(Continued from page 57)

There were no floods this month in any of the streams or rivers of the State, the first month since February that flood stage, or above, had not occurred in at least one river. Daily stages in all rivers diminished gradually, as a rule, during the month and were at relatively low levels at the close of August.

Only a few local storms, of a damaging nature, occurred this month and these are listed in the accompanying storm table for August.

The hot, dry weather which prevailed throughout the month over most of the State, caused steady and serious deterioration of all growing crops and pastures, and resulted in the most severe drought since the great drought of 1936. Most of the corn crop was badly damaged, some beyond recovery, and hay crops and pastures were cut shorter and shorter as the month progressed. Cotton and soybeans withstood the drought and high temperatures better than other crops, but these also were adversely affected and damaged. Harvesting and threshing of small grains were completed early in the month and yields of wheat were better than expected, but the yield of oats was disappointing and poor. Gardens, truck crops, melons, and the commercial tomato crop in the southwest portion of the State were badly damaged and burned, and many new strawberry beds were severely damaged. Cutting and curing of hay continued during the month with little interruption from showers, but the prevailing high temperatures were very uncomfortable for both man and beast. All fruits and berries were adversely affected by the drought and hot weather and many apples dropped off the trees. However, a fairly good crop of apples, peaches, pears, and grapes was indicated at the close of the month.

While the more or less general rains of the 13-16th and 25-26th afforded some temporary relief, unusually hot weather continued throughout the remainder of the month and minimized the affect of these rains. As the month closed a general soaking rain and much cooler weather were badly needed for all vegetation and crops and to replenish dwindling water supplies.—M. R. W.

TEMPERATURE

The monthly mean for the State, 105 stations reporting, was 83.4°, or 6.8° warmer than the 60-year August average. The highest monthly mean was 86.2° at Kansas City Airport, and the lowest was 79.3° near Black. The highest reported was 109° at Carthage on the 31st and the lowest was 56° at Elsberry on the 1st.

PRECIPITATION

The average for the State, 210 stations reporting, was 1.81 inches, or 2.00 inches less than the 60-year August average. The greatest monthly amount was 6.33 inches at Ellington, and the least was 0.08 inch at Warrenton. The greatest amount reported in 24 hours was 4.60 inches at Lockwood on the 26-27th. The average number of days with 0.01 inch, or more, was 5.

MISCELLANEOUS PHENOMENA

Fogs.—Heavy, 8th, 13th, 16th, 17th, 27th.

Hail.—Light, 25th at Farmington and Ferguson; 26th at Lockwood.

Windstorms.—20th, 24th, 25th. (See special storm table).

Daily Precipitation for August 1947

Stations	Drainage-basins	Day of month																															Total
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Northern Division																																	
Albany	Grand													.20	.10		1.27									.12						.02	1.71
Amity	do						T.							.03	.30		1.70									.44						T.	2.47
Auxvasse	Missouri												.12		.05	.12			.74													.08	1.11
Bethany	Grand													.50	T.		.80									.45						T.	1.75
Bowling Green[2]	Mississippi																									.50	.21		.34				1.05
Brookfield[2]	Grand															.24	.40										.32					T.	0.96
Browning 3 mi. NE	do												T.	.03	.05		.23									.25					T.	T.	0.56
Brunswick[2]	do													.17	.18	.53		T.									.38						1.26
Canton, Lock No. 20[2]	Mississippi													.13				T.									.06	.04				.80	1.03
Carrollton	Missouri							.05							2.26		.20									.40					.02		2.93
Centralia[2]	Mississippi															1.00																	1.00
Chillicothe[2] (B)	Grand													.08	.20	.31	.65	.02								T.	.05						1.31
Chillicothe[3] 2 mi ESE (C)	do												.07	.05	.52		.52									.05							1.21
Columbia[1, 5]	Missouri							.42				T.	.10	.36	.02	.25					T.					.05							1.20
Columbia[5] 9 mi. WNW	do							T.				T.			.72	.49															.04		1.25
Conception	do													.48			.95									.05							1.48
Edgerton[2]	do														.74	.03										.38	.06						1.21
Edina[2]	Mississippi														T.		T.	.18								.08	.07					.45	0.78
Elsberry S. C. S.[2]	do													T.	.10	.05	.36												1.26			.04	1.81
Fayette	Missouri												.15	.28	.15	.30										T.							0.88
Fulton[2]	do													.02	.28	.20																	0.50
Gallatin[2]	Grand						.01								.42		1.50									.45	.12						2.50
Grant City	do													.12		T.	1.66									.51							2.29
Hannibal[1] (A)	Mississippi													.01	T.	.15												.04				.04	0.24
Hannibal[2] (B)	do													T.	T.	.20											T.		T.			.03	0.23
Hermann[2]	Missouri							.03						.10		.35												.13					0.61
Kahoka[2]	Mississippi												.02		.02	.39		.13									.80					1.26	2.62
Kansas City Airport[1, 5]	Missouri						T.							.54	2.19	.02									1.32	.28							4.35
Kansas City University	do						.08							T.	1.40	.19	T.								1.40	.13							3.20
Kidder[2]	Grand														.46		.49									.65	.10						1.70
King City	Missouri													.30	.72	.76										.46							2.24
Kirksville	Mississippi													*	.35	.35	.26									.21						.25	1.42
Kirksville Airport[3, 5]	do													T.	.05		.21									.09		T.				T.	0.35
LaBelle[2]	do													T.				T.									1.00					.38	1.38
Lathrop	Grand													.10	1.10		.20									.90							2.30
Linneus	do													T.	.35		.61									.30	T.						1.26
Louisiana (A)	Mississippi														.09	.02			.05							.01		.09				.08	0.34
Louisiana[2] (B)	do														.05													T.	.04			.04	0.13
Lucerne[2]	Grand														.60		.40									.50	T.					.30	1.80
Macon[2]	Chariton														.01	.12	.32	T.	T.								3.74				T.		4.19
Madison[2]	Mississippi																										.82		.20				1.02
Martinsburg[2]	Missouri													.22	.12	.01	1.39				T.											.19	1.93
Maryville	do													.05			1.68									.33							2.06
Memphis[2]	Mississippi														.15	.10	T.	T.								.14	.65					.56	1.60
Mexico[2]	do															1.06																.02	1.08
Milan[2]	Grand														.25	.16	.36									.40						.22	1.39
Moberly[2] 3½ mi. NE	Mississippi													.04	T.	.04	.04				T.						.23	T.				T.	0 35
Monroe City	do															.06					T					T	.08					.04	0.18
New Florence[3, 5] 1 mi SE	Missouri												.08	.04	T.	T.	.01				T				T.		.03		T.			T.	0.16
Oregon	do													.05	.26		.94									.21						T	1.46
Palmyra[2]	Mississippi														01	.45																	0.46
Paris[2]	do														T.	T.	T.					.25					.51	.07	.28			.33	1.44
Perry 1 mile E	do														.02	.01	.25			.25							.02					.05	0.60
Philadelphia	do												T.	.03	.12		.05									.08	.10	.01				T.	0.39
Polo[2]	Missouri														.61	.16	.10	.03								.88	.04						1.82
St. Charles[2]	do													.03		.68	T.				T.	T.					T.		T.			T.	0.71
St. Joseph Airport[1, 5]	do													.23	.11	.03	.12									.27					T.		0.76
Salisbury	Chariton												.02	T.	.60	.01										.02	1.01						1.66
Saverton, Lock No. 22[2]	Mississippi													T.	T.	.54		T.		.82							T.		.38			.04	1.78
Shelbina	do												.05	T.	T.		.28				T.						.23	.02			.09		0.67
Shelbyville	do												.08			.04					.24					.18							0.54
Steffenville	do												.07				.13				.27					.02	.06					.03	0.58
Tarkio[3]	Missouri						T							T.			.61									.56							1.17
Trenton[2]	Grand	T.													.14	.98	.48									.30	.04						1.94
Troy[2]	Mississippi														T.	.42	.02																0.44
Unionville[2]	Chariton													.08		.37	.16	.22								.08	.04					.79	1.74
Vandalia	Mississippi														T.	T.									.30			T.	T.			.15	0.45
Warrenton	do												T.	T.	.05												T.					.03	0.08
Keokuk, Iowa[1]	do		T.										T.		.01		.02								T.	.09	.03					.56	0.71
Southwestern Division																																	
Altona[2]	Osage							T.								.97	.58									.67							2.22
Anderson[2] 1½ mi. SW	Neosho												T.			.06		.55									.15	.17					0.93
Appleton City 2 mi. W	Osage						T.					T.	T.		2.52	.26										.08	.06						2.92
Ava Ranger Station[2]	White																																....
Bolivar	Osage												.28		.43	.98	.13				.11						.20	.02					2.15
Boonville[2] (A)	Missouri													.70	.40	1.83															.05		2.98
Boonville[2] (B)	do													.73	.27	1 87											T.				.04		2.91
Bradleyville[2]	White														.20											.10	1.23						1.53
Buffalo[2]	Osage															.30	.04								.45	.50		.91					2.20
Butler	do													.16	.87	.29										.08	T.	T.					1.40
Camdenton	do											T.	.06		.84	1.33												.03					2.26
Caplinger Mills[2]	do													.05	.24	1.51			T.										.20				2.00
Carthage	Neosho						.15								.14	.16		.02			.10												0.57
Cassville[2]	White							.01	T.							.35		.16	.01			.19					.11	.64		T.			1.47
Chadwick[2]	do													.19	.10	.21					T.					.53	1.08		.35				2.46
Clinton[3]	Osage							T.						T.	2.12	.14					T.					T.							2.26
Concordia	Missouri						.14					T.	T.	.21	.90	1.54										.02							2.81
Crocker	Osage												.18		.15	.69												.06					1.08
Eldon	Missouri							.02					T.		.49	.28										.72	.16						1.67
Eldorado Springs	Osage												.04	T.	1.45	.89		.12								.03							2.53
Elijah[2]	White																																....
Forsyth[2]	do													.03		.20					.04	.12				.15	1.21		.20				1.95
Galena[2]	do													.05	.39	.02		.39				.10					.80	.17					1.92
Granby[2]	do														.05												1.24	.20					1.49
Hailey	do								T.			T.					.18										.81						0.99
Harrisonville[2]	Osage														.96	.12	.10									.32	.15						1.65
Jefferson City[2] (A)	Missouri													.03	.17	.34						T.				.25		.03					0.82
Jefferson City[2] (B)	do													.10	.37	T.	.22									.30	T.	.04				T.	1.03

Continued on next page

Daily Precipitation for August 1947—Continued from preceding page

Stations	Drainage-basins	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Total
Southwestern Division—	*Concluded*																																
Joplin Airport[3]	Neosho													T.	1.00	*T.*		.10			.07				.12		T.						1.29
Lakeside[2, 5]	Osage													T.	.54	.47	.03											.05					1.09
Lamar[2]	Neosho														.78	1.33	.05					.28					.10	.20	.30				3.04
Lebanon[2]	Osage													.10	.04	.51	.04									.09		.37					1.15
Lexington[2]	Missouri														1.73	.05											.30						2.08
Lockwood	Osage												T.		.73	.07		.16			T.				.04		3.40	1.20					5.60
Mansfield[2]	White							T.						.17	.60	.12											2.86						3.75
Marshall	Missouri												.05	T.	.60	.86	.03									.08	.16						1.78
Marshfield[2]	White													.44	.53	.24						.04					.12	.55					1.92
Monett[2]	Neosho							.66								.53		.22									.38	.07					1.86
Mountain Grove[2]	Gasconade														.22	.23						.13					.74						1.32
Mount Vernon[2]	Neosho							.13								.15										.18	.36						0.82
Neosho	....do													.05	.08		T.								.45	.03		.09					0.70
Nevada	Osage														.93	1.85										.80							3.58
Osceola[2]	....do													.37	.74	.96	.10					.03					.01						2.21
Ozark[2]	White														.30	.75		.09				.21				.10	.65		.19				2.29
Ozark Beach[2]	....do															.12					.12	.37				.19	1.13		.43				2.36
Pierce City[2]	Neosho															.05		T.									.62						0.67
Pineview Lookout[2]	White																																....
Pleasant Hill[2]	Osage							T.						T.	1.33	.15	.12									1.53	.04						3.17
Roby	Gasconade							.56					T.		.04	.28				T.	.15				T.		T.	1.01					2.04
St. Thomas[2]. 2¼ mi SW	Osage								.65						*.44*	*.38*	*T.*											.25					§1.72
Sedalia	Missouri												T.		.90	.93						.28											2.11
Seligman[2]	Neosho												.12		T.			.28				.05				.10	.17	.21					0.93
Seymour[2]....3½ mi. NE	White														.36							T.				T.	1.43	T.					1.79
Shell Knob[2]...3 mi. SE	....do							.07							.04		.03	.26				.07				.25	T.	.61					1.33
Siloam Sprgs Lookout[2]	....do															.24											.24			.28			0.76
Springfield[1, 5]. 4 mi. NW	Osage						.01						T.	.04	.05	.02	.01		T.		T.				T.	.66	.08	.01					0.88
Stover[2]	Missouri								.39							.45	.02																0.86
Sugar Camp Lookout[2]	White																																....
Sweet Springs	Missouri												.11	.13	.78	1.35	T.					T.				.03							2.40
Tecumseh[2]. ..¼ mi. W	White																										T.	.26	.07				....
Topaz[2]	....do																									1.75	.40		.28				2.43
Vanzant[2]....3¾ mi. SE	....do														.05	.05										.12	.25	.03					0.50
Waco[2]	Spring														*	*			*			*			*	1.40							1.40
Warrensburg	Missouri											*	.13	.07	.80	.33	.03								.21	.14							1.71
Warsaw[2]...........(A)	Osage												.08	.90	.16	.40	.30									.22	T.						2.06
Warsaw[2]...........(B)	....do												T.	.84	.25	.53	.05									.24							1.91
Wasola[2]	White								.62																	.35	.41	.86	.24				2.48
Waverly[2]	Missouri														.52	.25	.02									T.	T.						0.79
Waynesville	Gasconade																																....
Wilderness Lookout[2]	White																	.15				1.00					.20	.23					1.58
Southeastern Division																																	
Advance[3].....½ mile W	St. Francis							.37								.53	T.								T.	.45	.04					.46	1.85
Alton.......10 miles SE	Black								.20			.07	.19		.11		2.05										.18	.14					2.94
Annapolis[2].....7 mi. W	....do								.60							.65	.06	.01									1.63	.75					3.70
Arcadia[2]	St. Francis								.07							.59		T			.07					.10	1.01	.16					2.00
Belleview[2]	Meramec								.43							1.10						T.	T.		.09	.11	.33	1.21					3.27
Bernie[2]	St. Francis								.17								.33	.35								.72	.73						2.30
Birch Tree[2] ...½ mile E	Black								.09							.66	.57	.33									.10	.98					2.73
Black...... 9 miles NW	....do								.61							2 53											.32	.03					3.49
Bloomfield[2]	St. Francis								.68							.09		.54									.18	.03					1.52
Bunker[2]... 4 miles NW	Black															1.25	.10									1.65	1.75						4.75
Campbell	St. Francis							.03							.04		1.12								.09		.09		.09			.03	1.49
Cape Girardeau....(A)	Mississippi	.05							.07							.87	.06	T.							T.		.30	.18				1.75	3.28
Cape Girardeau[2]...(B)	....do	.02							.06							1.24	.05		T.									.60					1.97
Caruthersville[2]	...do								T.			T.				.26	.48						T.										0.74
Centerville(1)[2]	Black								.43							.50	.07										.91	.45					2.36
Centerville(2)[2]	....do								.48							.37	.03	.05								.02	.92	.76					2.63
Clearwater Dam[2]	....do								.05							.58	.68	.49									.54	.58					2.92
Cook Station[2]	Meramec																					1.02				.05			.15				1.22
Crane Mountain[2]	St. Francis								.12							.18											1.24	.75					2.29
Crystal City	Mississippi														T.	.49					T.						2.96	T.				.12	3.57
Cuba	Meramec							.07							T.	.05											.58						0.70
Deering[2]	St. Francis														T.	.31	.04									.04	.51			.02			0.92
De Soto	Mississippi							.02	.30							.69					.07						2.42					.05	3.55
Dexter[2]	St. Francis								.27							T.	.12	.58									1.32						2.29
Doniphan(1)	Black							.49				.08	.01			.05	2.61										.49	.09	.05				3.87
Doniphan(2)[2]	....do								.74								1.57	.27									.27		.08				2.93
East End[2]	Meramec								.55							1.75						.05						.94					3.29
Eastwood Lookout[2]	Black								.45					.30			2.34	.58									1.48						5.15
Ellington[2]	....do								.45					.06		.32		.40									3.50	1.60					6.33
Ellsinore	....do							.60									1.95									.73	1.71						4.99
Farmington[2]	St. Francis								T.				.03			.14					.90	T.		T.			1.40	.03					2.50
Fisk[2]	....do																.76										.43						1.19
Fredericktown[2]	....do							T.	.41							.30		T.									.60	.14					1.45
Gerald	Meramec												.04		.37	.03																.02	0.46
Greenville[2]	St. Francis								.18				.03			.26	.96	.16									1.41	.83					3.83
High Lookout	Black	T.							.03								1.23									*	.91	.56					2.73
Jackson	Mississippi							.07	.08						.43	.26	.05										.49	.02				1.30	2.70
Jerome[2]	Gasconade								1.44						.35	.33						T.						T.					2.12
Koshkonong[2]	Black								.03				.20			.03	.08	.01									.01	.10	T.				0.46
Leeper[2]	....do								.10					.01		.20	1.63	.68									.86	.33		T.			3.81
Licking[2]	Gasconade																									.35	.13	1.45					1.93
Macedonia Lookout[2]	Black								T.				.02				1.80	.41								.90	.14						3.27
Marble Hill	Mississippi							.84	.10						.40	.56	.32								.36	.28	.80					.45	4.11
Morehouse	....do							.06								.59	.02								.18		.08					.07	1.00
Moselle[2]	Meramec																																....
New Madrid[2]	Mississippi								.70							.05		.18							T.	.25	.25						1.43
Oates Tower[2]	Black								.23							.61	T.							.51			.26	.84					2.45
Owensville[2]	Gasconade													T.	.17	.27																	0.44
Pacific[2]	Meramec														*T.*	*.12*						1.27										.05	§1.44
Parma[2]	St. Francis								1.60						T.		.08	.03						.30		.06	.14						2.21
Perryville	Mississippi																								.01		.04					.18	....
Poplar Bluff[2]	Black								.05								.52	.11									.08	.15		T.	.33		1.24
Puxico[2]	St. Francis								.21							.98	.99	.12								.02	.71	.11					3.14
Qulin[2]	....do								T.							T.	1.90	.07							T.	T.	.07	.02					2.06
Reynolds[2]	Black								.28							.36	.09										.48	.57					1.78
Richwoods[2]	Meramec								.56							.24					.31							1.11					2.22
Rolla[2]	....do								.37					.10	T.	.16	T.				.27	.04							.10				1.04
Round Spring[2]	Black								1.77							.23											.20	.68					2.88

Continued on next page

Daily Precipitation for August 1947—Continued from preceding page

Stations	Drainage-basins	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Total
Southeastern Division —	*Concluded*																																
St. Louis:																																	
City Office[1], [5]	Mississippi	....	....	....	....	....	....	....	....	....	....	....	....	.20	T.	.04	....	....	....	.31	.76	....	....	....	....	....	.01	....	T.	....	....	.23	1.55
Airport[3], [5]	Missouri	....	....	....	....	....	....	....	....	....	....	....	....	....	.36	.10	....	....	....	....	T.	....	....	....	....	....	T.	T.	....	....	....	.09	0.55
St. Louis Univ.[1], [5]	Mississippi	....	....	....	....	....	....	....	....	....	....	....	....	T	.01	.15	....	....	....	.24	1.34	....	....	....	....	....	.04	....	....	....	....	.27	2.05
Washington Univ.[2]	....do	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.65	....	....	....	....	.37	.15	....	....	....	.25	....	....	....	....	....	....	1.42
Salem[2]	Meramec	....	....	....	....	....	....	....	.39	....	....	....	....	....	....	.08	.08	....	....	....	....	....	....	.20	....	....	....	.18	....	....	....	....	0.93
Sikeston[2]	Mississippi	....	....	....	....	....	....	....	.01	....	....	....	....	....	....	.19	.08	.01	....	....	*T.*	....	T.	....	T.	.24	1.00	.14	....	....	....	....	1.67
Steelville[2] ...2¼ mi. NE	Meramec	....	....	....	....	....	....	....	.06	....	....	....	....	....	....	....	.06	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	0.12
Sullivan[2]	....do	....	....	....	....	....	....	T.	.30	....	....	....	....	....	T.	.15	T.	....	....	....	T.	T.	....	....	....	.01	T.	T.	.04	....	....	....	0.50
Summersville[2]	Black	....	....	....	....	....	....	....	.13	....	....	....	....	T.	....	2.04	....	T.	....	....	....	....	....	....	....	....	T.	.13	....	....	....	....	2.30
Union[2] ....1½ mi. SE	Meramec	....	....	....	....	....	....	....	.21	....	....	....	....	....	....	.15	....	.01	....	....	....	.01	....	....	....	....	....	....	....	....	....	....	0.38
Valley Park[2]	....do	....	....	....	....	....	....	....	....	....	....	....	....	....	T.	.03	....	....	....	....	.97	T.	....	....	....	....	....	....	.15	....	....	....	1.15
Van Buren[2]	Black	....	....	....	....	....	....	.96	....	....	....	....	....	....	....	.54	.64	.75	....	....	....	....	....	....	....	....	1.72	.75	....	....	....	....	5.36
Vichy[3] .....2 miles NW	Meramec	....	....	....	....	....	....	T.	....	....	....	....	T.	T.	.20	.23	....	....	....	T.	T.	....	....	....	....	....	.48	T.	....	....	....	....	0.91
Wappapello Dam[2]	St. Francis	....	....	....	....	....	....	....	.41	....	....	....	T.	....	....	.70	1.43	....	....	....	....	....	....	.02	....	....	3.21	.12	....	....	....	....	5.89
Webster Groves	Mississippi	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.05	....	....	....	....	.27	....	....	....	T.	.57	....	....	....	....	....	.27	1.16
Weingarten	....do	....	....	....	....	....	....	.95	.03	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.30	.10	....	....	....	....	.10	1.48
West Plains[3]	Black	....	....	....	....	....	....	.09	....	....	....	....	.06	....	.04	.23	.09	....	....	....	....	....	....	....	....	T.	.01	.87	....	....	....	....	1.39
Williamsville[2]	....do	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1.07	.65	....	....	....	....	....
Willow Springs[2] 500 ft E	White	....	....	....	....	....	....	....	.24	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.69	....	....	....	....	....	0.93
Winona Ranger Sta.[2]	Black	....	.23	....	....	....	....	....	.75	....	....	....	....	....	....	.50	.80	.70	....	....	....	....	....	....	....	....	.35	.60	....	....	....	....	3.93
Zalma[2]	Mississippi	....	....	....	....	....	....	....	.18	....	....	....	....	....	....	.30	.34	....	....	....	....	....	....	....	....	.10	.49	.79	....	....	....	....	2.20
Cairo, Ill.[1], [5]	....do	....	....	....	....	....	....	.16	....	....	....	....	....	T.	....	.46	....	....	....	....	....	....	....	T.	....	.02	.08	....	....	....	....	.15	0.87
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....

Except as otherwise indicated, amounts are for 24 hours ending late in afternoon. [1] Midnight to midnight. [2] Measured in the morning; for the preceding 24 hours. [3] Data for 24 hours ending 12:30 A. M. (C. S. T.) of following day. [5] Recording gage. T. Trace or 0.005 inch or less. * Included in next measurement. // Windshield on gage. Italics data interpolated. § Partly interpolated. (A) Record from cooperative station gage. (B) Record from river station gage. (C) Airport.
‡ Received too late to be included in means and extremes.

Daily Evaporation (inches), Mean Temperature (F°), and Wind Movement (miles) for August 1947

(See precipitation data in daily precipitation table)

Station	Data	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Monthly
Columbia (Univ. of Mo. Hort. Exp. Sta. 9 mi. WNW.)	Evaporation	.179	.396	.414	.402	.416	.342	.276	.205	.282	.297	.345	.235	.254	.185	.112	.217	.313	.251	.238	.237	.237	.269	.304	.256	.235	.168	.206	.262	.326	.288	.288	8.435
	Mean temperature	78	87	86	87	86	86	84	82	80	83	84	80	83	80	76	82	82	82	84	85	83	84	86	86	81	78	80	82	82	87	87	83.0
	Wind movement	4	54	44	53	48	28	7	7	4	10	20	20	46	21	2	10	48	20	3	5	14	7	4	8	34	6	10	13	33	34	12	629
Lakeside (Osage Dam)	Evaporation	.334	.258	.372	.342	.364	.322	.357	.319	.310	.323	.300	.321	.184	.313	.042	.120	.269	.300	.256	.269	.239	.301	.273	.300	.272	.210	.143	.226	.265	.323	.290	8.517
	Mean temperature	86	86	84	84	83	84	84	83	82	82	82	82	83	78	80	84	83	83	84	85	84	84	85	86	80	79	79	83	82	86	86	83.0
	Wind movement	39	28	53	38	34	45	37	33	31	21	28	58	19	49	15	15	22	33	17	9	12	9	14	15	19	44	8	17	19	51	18	850
St. Louis (Washington University)	Evaporation	.316	.190	.304	.282	.300	.339	.314	.312	.258	.188	.218	.276	.225	....	.163	.399	....	....	....	.178	.134	.082	.338	.177	.266	.078	.198	.149	.163	.213	.228	7.220
	Mean temperature	77	83	90	88	88	88	88	84	84	84	85	84	86	86	79	82	84	86	86	85	86	86	86	89	84	79	82	82	84	84	83	84.5
	Wind movement	25	3	10	6	6	5	4	18	8	1	7	12	13	6	9	9	10	20	7	5	7	7	6	5	9	25	16	13	11	18	23	324

Observations taken at 8:00 a. m. except at 5:00 p. m. at Columbia. For Lakeside and St. Louis (Washington University) descriptions see April 1932 and August 1938 reports, respectively. * Included in next measurement.

Missouri Storms, August 1947

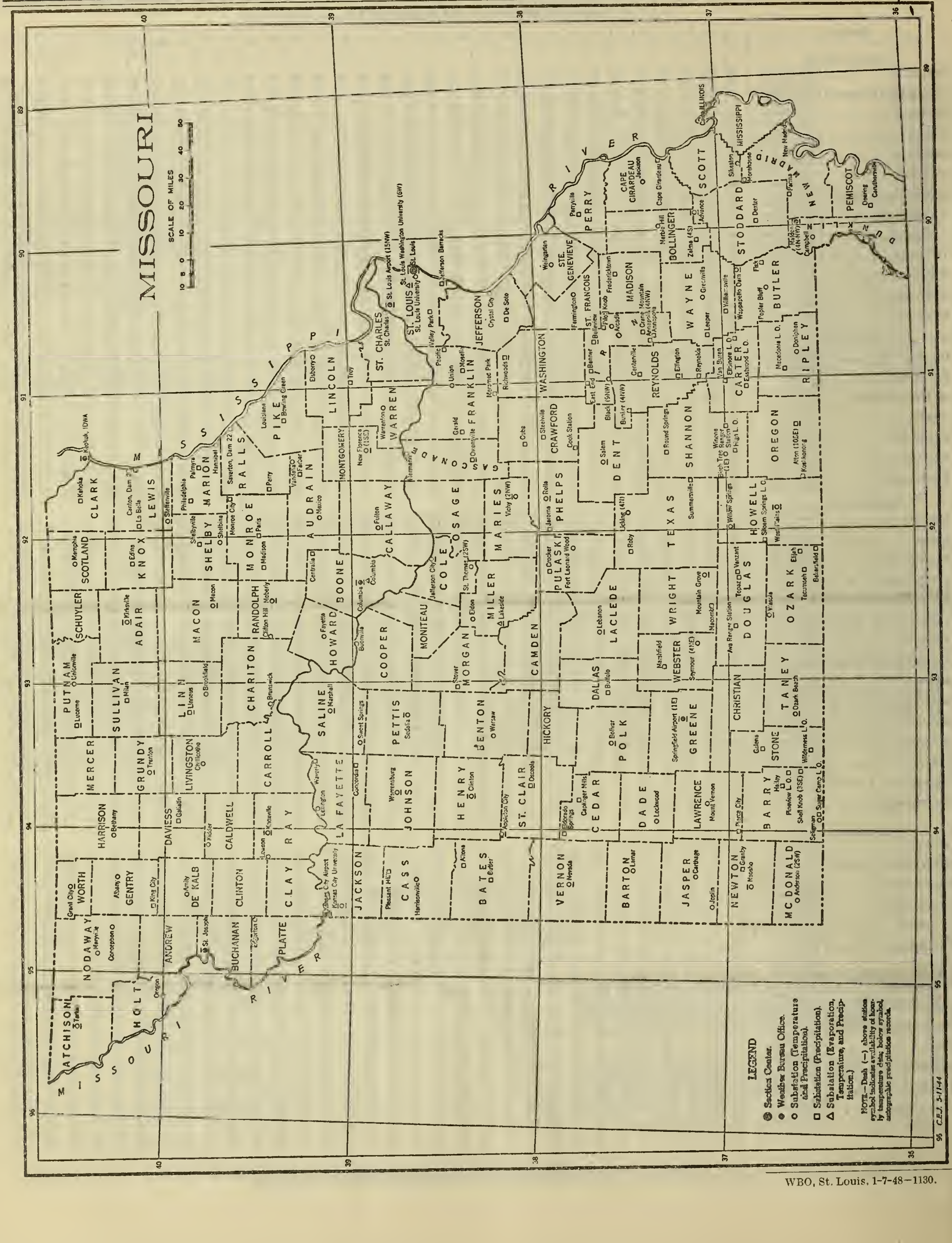
County	Date	Time	Nature of storm	Storm moved from	Width of path (miles)	Length of path (miles)	Loss of life	Property damage (estimated)	Remarks
St. Louis City	20	Between 2:00 p.m. and 3:00 p.m.	Thunderstorm and wind	SW	....	....	0	$5,000	Two buildings were damaged and two persons injured as a result of the windstorm and several trees and wires were blown down in various sections of the city. Lightning struck and damaged several buildings and knocked out part of the city fire and police alarm system; several small fires were started by the lightning.
Shelby	20	About 2:00 p.m.	Electrical	......	....	....	0	Unknown	Lightning struck and burned a barn five miles south of Shelbina.
St. Louis City and St. Louis	24	Between 4:00 p.m. and 5:00 p.m.	Thunderstorm	SW	....	....	0	Minor	High wind, accompanied by light hail, struck at Ferguson and vicinity and toppled trees, shattered windows and damaged some roofs. In St. Louis City wires were blown in a few places.
St. Francois	25	Afternoon	Thunderstorm	......	....	....	0	Small	Very heavy thunder, light hail, wind, and lightning struck Farmington, resulting in a small amount of damage.
Newton	25	Late afternoon	Electrical	......	....	....	0	Unknown	Lightning struck twice in Granby causing fires at both places.

Time used on this tabulation is Central Standard Time, unless otherwise indicated.

Daily Temperatures for August 1947

Stations		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Northern Division																																	
Brunswick /	Maximum..	92	101	101	101	99	101	97	95	100	98	100	95	97	80	84	93	95	95	98	100	97	99	101	102	81	87	92	96	97	103	98	96.0
	Minimum ..	70	69	73	73	71	71	73	73	68	68	71	73	74	72	70	70	74	74	75	75	74	74	74	74	73	70	70	69	71	72	75	72.0
Chillicothe 2 mi ESE(C)	Maximum..	99	102	101	100	101	99	98	95	100	99	99	97	97	76	85	91	94	94	97	99	97	99	99	101	83	86	92	97	96	105	97	95.8
	Minimum ..	67	73	70	70	74	76	70	68	65	67	68	71	70	67	67	71	72	72	71	72	72	70	71	70	69	68	66	68	71	72	72	70.0
Columbia	Maximum..	91	101	103	102	100	104	96	94	96	96	96	91	95	84	84	95	97	96	100	98	98	99	101	100	90	88	95	97	98	104	97	96.3
	Minimum ..	68	77	74	75	75	76	75	73	69	73	74	74	73	72	70	73	73	75	75	78	75	75	76	74	74	70	69	72	74	75	78	73.7
Fayette	Maximum..	91	100	100	100	99	102	97	93	98	96	97	92	95	82	84	93	93	94	96	97	96	97	99	101	88	87	93	96	96	103	97	95.2
	Minimum ..	67	71	72	73	70	72	71	71	63	68	70	72	71	70	68	71	71	71	70	72	71	69	71	71	72	69	67	68	69	72	75	70.3
Grant City	Maximum..	94	103	102	101	101	98	97	96	103	100	99	98	94	80	86	90	94	93	95	98	96	97	97	98	93	81	90	94	94	101	95	95.4
	Minimum ..	65	76	73	78	75	77	70	65	69	70	71	72	70	69	60	66	70	72	71	73	73	70	71	73	67	63	73	70	70	73	69	70.5
Hannibal	Maximum..	88	99	100	98	98	102	94	93	94	95	94	93	95	85	87	90	98	98	97	98	98	98	98	98	87	85	89	95	98	103	93	94.8
	Minimum ..	64	74	76	74	73	75	75	70	67	70	72	72	72	71	66	70	71	75	76	75	73	74	75	75	73	70	68	69	73	73	70	72.0
Kansas City Airport..	Maximum..	103	102	102	100	101	99	98	97	106	100	101	96	98	77	83	98	96	97	99	100	97	99	100	97	85	85	92	96	97	106	98	96.9
	Minimum ..	73	80	79	81	80	77	74	74	73	78	80	78	72	70	70	74	78	76	79	78	78	77	76	72	70	70	71	75	75	78	78	75.6
Kirksville	Maximum..	87	100	99	99	98	100	97	93	98	97	98	96	97	82	88	92	95	95	98	101	99	100	101	102	*88*	82	91	97	98	104	92	§95.6
	Minimum ..	63	73	72	72	69	70	74	70	65	68	69	69	70	67	63	69	73	71	70	72	70	*71*	70	*72*	*74*	68	65	68	70	73	72	§69.7
Lathrop	Maximum..	96	100	99	98	99	98	97	95	101	97	97	94	96	74	83	91	92	92	95	97	94	95	97	101	84	87	92	93	91	104	97	94.4
	Minimum ..	67	75	73	75	75	77	70	67	68	70	69	72	70	70	65	72	74	72	73	73	72	72	74	74	68	66	68	70	71	74	73	71.3
Louisiana	Maximum..	88	101	102	100	101	102	99	96	97	96	95	94	97	90	87	92	99	97	100	101	100	101	101	101	90	89	91	98	100	103	95	96.9
	Minimum ..	61	72	79	74	67	70	72	69	59	64	68	69	72	71	69	65	71	73	71	70	71	70	69	69	69	67	66	67	72	73	69	69.3
Macon /	Maximum..	88	99	100	99	98	100	95	92	96	95	95	93	95	80	88	91	95	95	97	99	98	99	100	102	83	83	91	95	94	99	94	94.5
	Minimum ..	63	64	72	72	74	76	74	71	65	67	71	73	72	71	68	61	70	74	70	74	73	73	74	74	72	66	66	67	72	73	70	70.4
Maryville	Maximum..	90	98	98	98	98	92	93	93	99	96	95	94	91	79	79	89	91	91	94	95	93	95	94	95	86	79	89	92	91	97	92	92.1
	Minimum ..	66	75	70	72	74	74	71	69	69	71	70	68	68	69	61	68	70	70	70	70	70	69	68	70	67	60	64	67	67	68	71	68.9
Mexico /	Maximum..	89	96	97	97	99	102	94	93	96	96	95	93	95	84	83	92	96	95	98	100	97	99	99	99	90	86	94	97	99	103	94	95.1
	Minimum ..	63	64	73	73	72	74	73	70	65	68	71	72	71	70	67	68	71	74	73	75	74	74	74	72	73	70	68	70	72	72	70	70.8
Moberly /.... 3½ mi. NE	Maximum..	87	99	99	100	99	101	96	96	96	96	96	92	96	86	85	94	95	95	97	99	97	98	99	101	87	84	92	96	96	103	97	95.3
	Minimum ..	65	73	70	71	77	75	72	69	62	68	69	72	72	70	69	71	73	74	74	72	73	73	75	76	72	72	67	71	72	72	72	71.4
Oregon	Maximum..	99	103	99	98	99	98	95	95	101	98	98	94	92	78	80	93	92	92	94	96	93	95	94	98	85	84	90	94	93	103	93	94.1
	Minimum ..	70	74	71	76	72	76	73	71	73	74	74	74	72	66	63	69	73	73	74	73	75	72	72	74	67	64	66	70	72	75	75	71.7
St. Charles	Maximum..	90	101	103	103	102	103	102	95	96	96	91	94	97	93	86	91	97	98	99	98	97	99	99	101	95	89	93	98	98	101	96	96.8
	Minimum ..	62	74	72	73	72	74	75	71	70	71	74	72	73	75	72	72	72	74	75	75	72	73	74	75	73	69	72	71	72	71	74	72.4
St. Joseph Airport	Maximum..	99	104	101	101	101	98	98	98	105	101	100	97	95	77	85	97	96	96	96	99	97	98	97	100	78	84	93	97	96	103	96	96.2
	Minimum ..	71	78	76	77	77	76	72	73	73	75	74	74	72	68	65	72	74	74	74	74	74	72	72	73	69	68	66	71	70	75	75	72.7
Trenton	Maximum..	93	102	102	100	101	101	98	99	101	98	98	99	96	90	80	92	94	95	96	99	97	98	100	101	90	84	92	96	95	106	95	96.4
	Minimum ..	67	75	75	76	72	77	74	70	68	70	72	72	70	69	63	65	73	73	72	73	74	72	72	75	69	69	67	69	69	72	73	71.2
Unionville /	Maximum..	86	102	101	100	99	101	96	93	97	96	97	97	95	74	87	90	96	95	98	100	98	99	100	100	85	84	97	97	96	103	89	95.1
	Minimum ..	62	66	69	69	69	73	71	69	62	67	68	70	69	69	59	62	69	72	69	70	70	67	68	69	66	65	62	66	68	71	70	67.6
Warrenton	Maximum..	88	99	100	100	101	102	99	93	94	94	94	94	96	92	86	92	97	97	98	99	98	99	100	101	93	89	95	97	97	103	101	96.4
	Minimum ..	61	73	71	72	69	70	71	69	60	66	66	69	71	72	71	67	71	71	73	72	70	68	70	74	70	68	66	69	70	69	71	69.4
Keokuk, Iowa	Maximum..	84	102	102	101	100	102	94	90	94	95	95	93	94	81	89	91	96	97	100	101	99	101	101	103	84	85	92	97	97	102	89	95.2
	Minimum ..	60	75	79	78	79	82	79	71	68	71	74	73	76	72	70	71	78	79	77	79	77	78	76	79	73	69	67	74	71	78	72	74.4
Southwestern Division																																	
Clinton	Maximum..	104	102	103	102	102	103	103	101	105	100	102	95	98	84	90	96	95	95	97	99	97	98	100	102	87	86	95	99	98	105	107	98.4
	Minimum ..	70	73	70	71	71	73	71	71	70	71	71	73	70	71	71	72	71	72	72	73	71	72	70	72	72	70	65	67	68	72	74	71.0
Eldon	Maximum..	99	98	101	100	98	102	99	96	99	97	96	90	96	92	87	95	94	..	96	100	98	98	101	102	93	89	92	..	98	101	100	^{b}96.8
	Minimum ..	68	76	76	74	69	73	73	68	65	68	70	71	70	71	70	71	69	..	72	74	71	71	71	73	73	69	66	..	67	70	74	^{b}70.8
Harrisonville /	Maximum..	101	101	101	101	101	101	100	99	104	104	100	96	98	82	87	97	95	95	97	101	102	99	100	102	84	88	93	95	96	106	107	97.8
	Minimum ..	69	74	71	70	71	74	73	72	71	74	74	71	70	60	62	72	74	66	72	74	72	66	73	75	68	68	67	70	69	72	74	70.6
Jefferson City	Maximum..	95	101	103	102	100	103	99	95	98	98	97	91	98	91	86	97	97	97	101	99	97	99	100	98	92	88	93	98	98	104	96	97.1
	Minimum ..	68	71	66	70	68	68	69	66	60	65	68	71	71	70	70	71	68	72	69	73	68	66	68	68	68	66	67	68	69	72	76	68.7
Joplin Airport	Maximum..	102	100	100	100	99	100	100	104	104	101	101	95	97	85	98	100	96	95	99	99	99	100	102	102	92	90	96	96	97	105	106	98.7
	Minimum ..	70	74	71	70	73	75	76	73	74	76	76	72	72	71	70	75	73	71	72	75	72	72	71	76	70	70	70	68	67	75	76	72.5
Lamar /	Maximum..	97	97	96	97	98	98	97	99	102	97	97	93	95	85	90	96	92	92	93	95	93	94	96	95	85	87	86	90	91	100	102	94.4
	Minimum ..	69	70	69	71	70	71	72	70	71	72	74	71	69	70	69	70	69	70	70	72	69	69	69	72	72	67	67	67	66	66	71	69.8
Lebanon /	Maximum..	103	100	101	100	99	103	102	102	105	100	98	90	97	90	91	97	97	96	100	100	97	99	102	100	95	94	93	96	92	101	102	98.1
	Minimum ..	69	73	72	73	72	73	70	66	67	64	69	70	70	71	69	69	71	70	72	73	70	72	72	73	73	68	66	65	67	69	72	70.0
Lexington /	Maximum..	101	102	102	100	99	100	99	98	104	99	100	99	97	75	82	92	95	97	99	99	98	100	101	100	85	85	94	98	78	105	103	96.3
	Minimum ..	68	70	80	77	76	78	74	72	68	70	73	72	74	70	72	72	74	74	74	74	75	74	74	73	70	68	68	70	72	74	74	72.7
Marshall	Maximum..	93	100	100	99	99	101	98	94	99	98	97	94	96	85	81	92	93	91	96	98	95	95	97	99	84	86	90	94	95	102	100	94.9
	Minimum ..	69	78	72	72	74	74	74	70	67	70	70	72	72	70	69	72	72	73	74	75	73	73	75	73	70	69	69	69	70	78	77	72.1
Mountain Grove	Maximum..	100	98	100	99	99	101	101	98	99	95	92	89	95	93	92	91	90	94	98	95	95	95	98	98	97	92	86	90	88	99	96	95.3
	Minimum ..	71	75	72	72	74	73	71	68	71	71	70	69	68	69	69	71	70	69	69	72	70	70	73	71	68	68	68	68	67	69	73	70.3
Neosho	Maximum..	101	100	98	98	98	99	100	103	104	101	98	93	95	95	98	100	96	95	98	98	97	98	100	97	94	91	93	95	97	103	105	98.0
	Minimum ..	68	71	65	67	68	69	70	66	70	70	70	69	70	70	71	72	69	69	69	70	68	66	68	71	69	69	68	66	64	71	69	68.8
Nevada	Maximum..	103	100	101	100	101	101	102	104	107	103	103	96	98	89	88	99	95	94	96	99	97	97	100	100	98	87	93	95	95	105	106	98.5
	Minimum ..	70	71	67	71	71	72	73	71	72	71	75	71	70	70	69	70	72	71	71	73	72	70	70	71	71	69	66	68	66	71	72	70.5
Sedalia	Maximum..	100	100	100	100	98	101	98	96	100	97	97	90	95	83	84	95	94	92	96	98	96	96	98	97	95	87	91	95	95	103	102	95.8
	Minimum ..	70	76	73	73	73	76	70	72	72	63	72	72	73	71	71	72	72	73	74	76	74	74	74	73	73	69	68	70	71	74	78	72.3
Springfield....4 mi. NW	Maximum..	100	95	97	98	97	100	98	98	100	94	94	88	94	92	90	96	93	91	96	95	93	94	97	96	89	88	87	90	90	101	102	94.6
	Minimum ..	71	74	71	70	70	69	70	71	74	72	74	71	69	70	70	71	69	70	71	72	69	70	70	70	68	68	67	68	66	70	72	70.2
Warrensburg	Maximum..	101	101	101	100	100	101	99	99	103	99	99	93	97	81	84	94	93	93	96	99	96	97	99	98	88	85	91	97	97	104	103	96.4
	Minimum ..	70	76	73	74	74	76	74	72	72	72	74	74	73	71	71	73	73	74	76	76	75	76	76	77	71	70	70	71	73	75	73	73.4
Southeastern Division																																	
Arcadia /	Maximum..	98	105	106	105	104	106	104	98	96	95	91	93	99	98	93	89	94	96	100	97	99	98	101	96	98	91	99	94	93	98	89	97.2
	Minimum ..	68	69	70	68	68	67	70	65	62	65	67	69	70	70	70	70	70	69	68	70	65	66	66	68	69	67	65	65	65	66	67	67.5
Birch Tree.... ½ mile E	Maximum..	103	104	104	104	102	104	104	98	97	101	94	92	98	93	93	91	93	96	99	95	96	97	100	101	99	94	86	94	91	97	93	97.2
	Minimum ..	70	68	68	67	67	67	71	67	64	68	69	68	68	69	70	70	70	69	68	71	65	67	67	69	67	68	65	65	64	65	68	67.7
Caruthersville	Maximum..	97	97	98	99	99	99	97	92	93	94	93	90	93	98	91	86	89	91	94	92	92	94	96	98	97	91	94	94	95	96	89	94.1
	Minimum ..	75	74	73	74	74	75	74	72	76	75	71	73	73	72	75	73	72	74	75	74	74	74	73	75	70	72	73	74	73	75	75	73.6
Crystal City	Maximum..	103	93	101	102	103	103	102	95	96	96	96	95	97	97	88	92	97	99	98	97	100	100	101	103	100	89	93	95	96	96	98	97.5
	Minimum ..	65	71	69	69	68	69	73	68	64	67	73	72	71	70	69	74	71	73	72	73	69	70	71	71	71	69	68	70	69	74	69	70.1
Doniphan	Maximum..	104	107	107	107	108	108	105	99	99	100	96	96	101	103	99	89	96	98	100	95	97	99	99	100	99	93	92	96	95	97	92	99.2
	Minimum ..	73	69	69	69	67	67	71	69	64	69	69	70	68	71	77	69	69	69	70	72	67	70	71	70	69	58	67	67	67	68	69	68.8
Farmington	Maximum..	94	101	102	102	102	104	102	92	95	95	92	93	98	97	91	90	95	97	97	95	97	96	98	99	96	89	91	93	92	95	87	95.7
	Minimum ..	75	72	68	68	66	67	70	64	62	64	69	67	68	69	68	69	70	70	71	73	67	68	69	70	69	67	65	67	67	68	73	68.4
Jackson	Maximum..	99	102	105	104	104	105	101	97	97	98	94	96	98	97	89	87	94	96	101	96	99	101	102	102	98	93	93	97	95	97	94	97.8
	Minimum ..	68	74	72	71	71	70	74	69	69	68	72	72	70	73	72	72	73	72	71	74	67	70	70	72	69	71	68	69	68	69	71	70.7
Poplar Bluff	Maximum..	99	101	103	104	103	105	100	98	98	99	90	92	97	100	97	86	92	95	98	95	99	99	101	100	98	93	91	95	94	97	89	97.0
	Minimum ..	73	73	72	70	70	70	73	*69*	69	72	70	70	69	71	72	70	69	70	71	73	68	71	71	72	69	69	68	68	68	69	70	70.3
Rolla /	Maximum..	96	101	102	101	100	100	100	91	94	90	95	88	87	87	87	91	90	92	100	93	95	93	100	95	94	90	93	96	92	101	90	94.3
	Minimum ..	68	73	70	72	72	73	71	67	67	69	69	68	70	70	68	69	70	70	72	72	69	70	72	76	70	68	66	68	68	72	75	70.1
St. Louis	Maximum..	91	100	101	101	102	102	96	96	96	95	91	92	96	93	85	92	95	97	96	96	97	97	97	102	93	86	90	93	96	97	89	95.2
	Minimum ..	64	77	78	81	81	82	78	73	75	77	76	74	76	78	73	76	73	76	79	74	76	78	81	81	72	73	73	76	77	76	75	76.1
Salem /	Maximum..	100	101	102	102	101	103	102	93	96	96	95	92	98	94	88	90	95	97	98	98	96	95	98	101	95	91	92	95	94	98	93	96.4
	Minimum ..	68	70	70	68	68	68	69	68	64	67	69	69	70	71	70	70	70	70	69	72	69	67	68	70	68	68	66	66	67	68	72	68.7
Sikeston /	Maximum..	96	103	101	105	106	106	104	97	98	97	93	95	99	99	89	89	95	97	100	96	99	100	101	99	96	90	91	96	96	97	85	97.4
	Minimum ..	72	74	72	75	74	73	81	81	73	79	71	72	73	74	72	72	71	74	74	75	71	72	72	74	71	71	69	71	71	74	74	73.3
Union ....1½ mi. SE	Maximum..	92	103	105	104	103	105	101	95	97	95	95	94	100	97	90	95	99	101	104	100	101	102	103	106	97	93	97	99	101	103	92	99.0
	Minimum ..	65	69	66	68	66	68	71	*68*	60	60	68	67	71	72	70	71	68	69	70	70	67	66	68	69	67	67	66	66	65	66	73	§67.6
West Plains	Maximum..	102	103	104	104	102	105	104	100	98	98	94	91	98	99	96	81	94	97	101	95	99	99	99	101	101	97	91	92	90	99	97	97.8
	Minimum ..	73	76	74	72	70	70	71	70	68	67	69	71	68	71	71	73	71	69	69	71	66	68	69	70	68	68	69	68	66	68	69	69.8
Cairo, Ill.	Maximum..	93	98	102	102	103	102	95	92	95	93	89	91	93	96	83	90	93	92	95	93	96	97	95	96	96	89	92	95	95	97	84	94.3
	Minimum ..	74	78	78	78	78	78	74	74	76	74	73	75	75	75	74	74	74	76	77	78	75	76	76	77	73	74	72	75	76	76	74	75.4

/ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs. ^{a}, ^{b}, ^{c}, etc., number of days missing, for example, ^{b} indicates two days missing. Italics data interpolated. § Partly interpolated. (C) Airport.



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CLIMATOLOGICAL DATA

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H. F. WAHLGREN
ST. LOUIS, MO.

VOL. LI — SEPTEMBER 1947 — No. 9

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GENERAL SUMMARY

Severe drought and high temperatures prevailing at the close of August continued well into September, resulting in further deterioration of all growing crops and pastures. The month averaged both hotter and drier than normal, for the State as a whole.

It was the hottest September since 1939 and the ninth-warmest month of that name in the past 60 years, and averaged 3.9° warmer than September a year ago. The first three weeks of the month averaged considerably warmer than normal, as a rule, while the last week averaged cooler than normal. The 3d, 4th, 7th, and 8th were the hottest days of the month and the 23d and 30th were the coolest days, generally. The extreme maximum for the State this month was 109°; this mark has been exceeded only once during September, in 1925, and equalled twice, in 1913 and 1936, since State-wide records began in 1888. There were no freezing temperatures reported during the month, except near Black, where a minimum of 31° occurred, and no damaging frosts were reported anywhere in the State. However, light frost formed, locally, at a number of stations on several nights during the latter part of the month. Maximum temperatures of 100°, or higher, and 90°, or higher, occurred on an average of 3 and 13 days, respectively, for the State as a whole. Average temperatures, with departures from normal, by divisions, were: Northern, 71.0°, +3.3°; Southwestern, 73.0°, +3.0; Southeastern, 71.8°, +1.7°; for the State, 71.9°, +2.6°.

Precipitation during September was infrequent and unevenly distributed over the State, ranging from a total of 7.96 inches at Nevada to only 0.69 inch at Tarkio. The first 10 days of the month were generally hot and dry and without rain, except for a few local showers on the 3d-4th, principally over the Northern Division. Rather general and very beneficial showers occurred on the 11-12th, temporarily relieving the damaging effects of the severe drought. Moderate to heavy rains occurred over most of the State on the 20th-21st, except the extreme northwestern corner, as a low pressure system, which was the remnant of an intense hurricane, passed over the southern portion of the State and brought much needed and welcomed relief from the severe drought and hot weather that had prevailed since late July. The critical shortage of water in many localities was also greatly relieved, but not adequately replenished, by this period of precipitation and vegetation and crops, generally, took a new lease on life. The bulk of the month's rainfall fell during this latter period, as a rule. The average precipitation, by divisions, with departures from normal, were as follows: Northern, 3.87 inches, —0.32 inch; Southwestern, 4.33 inches, +0.04 inch; Southeastern, 3.28 inches, —0.36 inch; for the State, 3.83 inches, —0.21 inch.

There were no floods in the State during September and it was the second consecutive month without a flood in any river. Daily river stages throughout the month were rather low, as a rule, for this time of year.

Only three small local storms, resulting in damage, occurred during the month and these are tabulated in detail in the accompanying storm table.

(Continued on page 67)

PRESSURE, WIND, HUMIDITY, AND SUNSHINE

Stations	Sea-level pressure, extremes-inches				Wind				Relative humidity				Percentage of sunshine	Degree days
	Highest	Date	Lowest	Date	Average hourly velocity	Maximum velocity ¶	Direction of maximum	Date	12:30 a. m.	6:30 a. m.	12:30 p. m.	6:30 p. m.		
Columbia	30.55*	30	29.57*	21	7.2	26	se.	21	67*	76*	46*	48*	75	50
K. C. Airport	30.52	30	29.64	14	11.0	37	sw.	10	60	72	45	44	77	41
St. Joseph Ap't	30.53	30	29.57	13	7.8	25	s.	10	69	78	45	51	66	55
St. Louis	30.56*	30	29.55*	21	11.8	34	s.	21	75*	77	47	58*	74	56
Springfield	30.45	30	29.51	21	11.6	37	n.	21	74	81	47	53	79	44
Cairo, Ill.	30.45	27	29.60	21	8.3	28	n.	21	..	85	54	..	87	43
......	.....	..	.....	..	....	..	......	..	..	..	..	..	..	..

* Data for Airport station. ¶ For 5-minute period.

COMPARATIVE DATA FOR SEPTEMBER

Year	Temperature			Precipitation					Number of days			
	Average for State	Highest	Lowest	Average for State	Average, Northern Division	Average, Southwestern Division	Average, Southeastern Division	Snowfall, Average for State	Precip. .01 inch or more	Clear	Partly cloudy	Cloudy
1888	65.2	97	28	1.01	1.13	0.87	1.02	0	4	..	..	..
1889	64.7	94	32	4.68	5.55	4.66	3.83	0	11	..	..	..
1890	63.7	98	30	4.36	3.25	5.49	4.34	0	9	..	..	..
1891	70.6	104	34	0.72	0.53	0.90	0.72	0	6	..	..	..
1892	67.8	97	32	2.46	2.73	2.71	1.93	0	4	19	6	5
1893	69.9	107	26	4.07	3.50	3.96	4.74	0	6	17	7	6
1894	68.5	101	34	4.94	4.16	6.42	4.23	0	8	13	11	6
1895	71.8	104	24	2.38	2.04	2.43	2.66	0	4	19	8	3
1896	65.0	101	28	4.09	4.67	3.92	3.69	0	10	11	10	9
1897	74.3	105	27	0.67	0.97	0.61	0.43	0	2	23	5	2
1898	70.9	103	37	6.70	6.76	7.25	6.10	0	9	15	9	6
1899	67.4	108	21	1.96	2.27	1.79	1.81	0	4	20	6	4
1900	71.1	100	29	4.59	4.77	5.56	3.44	0	10	13	10	7
1901	68.9	103	27	2.16	2.41	2.75	1.31	0	6	18	8	4
1902	63.2	95	30	4.63	4.74	5.36	3.79	0	10	15	6	9
1903	66.6	98	32	4.16	5.64	3.56	3.28	0	8	17	6	7
1904	69.6	96	34	3.77	4.72	2.78	3.82	0	7	16	8	6
1905	69.6	98	41	7.40	8.20	8.36	5.64	0	10	15	6	9
1906	71.9	98	36	4.53	3.54	3.75	6.31	0	11	15	8	7
1907	68.9	101	31	2.06	2.35	1.62	2.20	0	6	18	7	5
1908	71.6	99	28	2.15	1.49	2.69	2.27	0	4	18	8	4
1909	68.7	105	28	4.48	5.30	3.35	4.79	0	8	18	6	6
1910	69.5	97	34	5.45	5.90	6.44	4.01	0	10	14	6	10
1911	73.7	105	39	6.27	8.17	5.98	4.65	0	11	13	7	10
1912	68.6	105	27	3.11	2.72	2.87	3.74	0	6	17	5	8
1913	69.4	109	27	4.75	3.74	4.64	5.88	0	9	13	7	10
1914	69.6	99	35	6.06	7.19	6.01	4.98	0	9	15	8	7
1915	70.6	98	34	5.18	6.21	6.93	2.40	0	7	16	7	7
1916	67.8	101	27	2.97	2.73	3.18	2.99	0	6	19	7	4
1917	67.9	101	33	2.76	2.97	3.64	1.66	0	5	19	6	5
1918	62.3	96	29	4.83	4.11	5.44	4.95	0	7	17	6	7
1919	71.4	104	38	3.14	4.13	1.95	3.34	0	5	20	6	4
1920	70.0	100	31	4.60	4.37	5.78	3.64	0	9	17	7	6
1921	73.4	104	34	6.94	8.05	7.03	5.74	0	13	13	9	8
1922	71.7	107	31	3.10	3.95	3.62	1.74	0	5	21	5	4
1923	68.7	98	33	4.44	4.84	4.75	3.74	0	11	12	9	9
1924	64.0	96	29	3.79	3.41	4.55	3.40	0	8	14	8	8
1925	74.6	110	45	6.56	5.84	6.48	7.37	0	10	14	6	10
1926	69.3	97	27	8.64	11.74	9.12	5.06	0	13	12	7	11
1927	71.6	102	29	3.72	3.11	3.41	4.65	0	8	17	7	6
1928	65.0	95	28	2.50	5.36	1.62	0.53	0	5	20	7	3
1929	67.4	98	33	3.16	3.16	2.83	3.48	0	8	13	10	7
1930	71.3	105	37	4.28	2.86	5.48	4.49	0	8	16	7	7
1931	75.0	104	36	3.91	5.97	3.18	2.58	0	7	19	7	4
1932	67.8	99	33	2.56	2.08	2.04	3.57	0	6	17	8	5
1933	74.6	102	36	4.69	3.00	4.92	6.16	0	9	16	8	6
1934	65.6	95	32	7.39	7.49	7.79	6.89	0	12	12	8	10
1935	68.1	98	33	3.51	4.30	3.13	3.10	0	6	20	4	6
1936	73.6	109	37	8.62	8.76	9.98	7.12	0	11	11	9	10
1937	69.4	103	29	2.41	1.12	2.53	3.57	0	5	18	7	5
1938	71.6	103	30	1.85	1.51	2.40	1.65	0	6	18	7	5
1939	75.5	108	30	0.81	0.42	0.74	1.27	0	2	23	5	2
1940	68.8	100	28	0.69	0.35	1.11	0.62	0	3	19	6	5
1941	71.6	97	35	5.83	5.98	7.34	4.17	0	9	14	9	7
1942	67.4	97	22	4.19	3.58	6.51	2.47	0	7	15	7	8
1943	65.8	102	33	3.51	3.15	3.97	3.41	0	8	13	10	7
1944	69.1	100	36	2.82	3.10	2.87	2.49	0	6	15	8	7
1945	69.4	103	36	9.46	8.83	10.07	9.49	0	14	12	7	11
1946	68.0	97	32	2.24	2.84	1.94	1.95	0	6	17	8	5
1947	71.9	109	31	3.83	3.87	4.33	3.28	0	5	18	7	5
....	....	...	..	....	....	....	....	.	..	..	..	..
Period	**69.3**	**110**	**21**	**4.04**	**4.19**	**4.29**	**3.64**	**0**	**8**	**16**	**7**	**7**

Climatological Data for September 1947

Stations	Counties	Elevation, feet	Temperature, in degrees Fahr.							Precipitation, in inches						Number of days				Prevailing direction of wind	Observers
			Length of record, years	Mean	Departure from the normal	Highest	Date	Lowest	Date	Length of record, years	Total	Departure from the normal	Greatest in 24 hours *	Date	Total snowfall, unmelted	With precip., .01 inch or more	Clear	Partly cloudy	Cloudy		
Northern Division																					
Albany	Gentry	930	6	70.4	......	102	8	36	30	18	2.13	−3.42	1.07	10-11	0	6	21	6	3	s.	William J. Butler
Amity	DeKalb	1,007	1	71.4	......	105	3	37	30	12	2.90	+0.16	2.28	20-21	0	4	20	5	5	s.	O. M. Colhour
Bethany	Harrison	916	52	70.6	+ 3.5	102	8	38	30	54	2.78	−1.78	1.38	20-21	0	6	18	7	5	sw.	B. A. McGregor
Brookfield	Linn	767	6	72.0	......	108	8	40	23	6	3.99	......	3.29	20-21	0	3	19	8	3	s.	G. F. Breen
Brunswick	Chariton	652	66	71.2	+ 4.2	100	4†	43	23†	68	4.21	−0.60	3.38	20-21	0	6	19	7	4	ne.	O. K. Benecke
Canton, Lock & Dam 20	Lewis	488	9	72.2	+ 3.6	100	4	42	27†	17	4.19	+0.45	4.09	20-21	0	5	19	6	5	se.	Lockmaster
Carrollton	Carroll	754	1	70.9	......	102	8	40	23	1	4.47	......	3.59	20-21	0	6	17	7	6	s.	Harold E. Finley
Chillicothe 2 mi ESE(C)	Livingston	771	38	70.2	+ 2.7	103	8	41	23†	41	5.77	+0.99	4.84	20-21	0	6	15	9	6	s.	Civil Aeronautics Adm.
Columbia	Boone	740	57	72.8	+ 3.4	103	8	43	23	57	3.34	−1.01	2.76	20-21	0	5	19	7	4	s.	U. S. Weather Bureau
Conception	Nodaway	1,108	58	71.4	+ 4.2	104	3	37	30	63	3.03	−1.61	2.41	10	0	4	15	11	4	s.	Fr. Adelhelm Hess
Edgerton	Platte	856	27	71.6	+ 3.7	108	4	40	30	44	3.99	−0.60	3.20	20-21	0	3	12	13	5	se.	Leroy H. Mindrup
Elsberry	Lincoln	449	16	69.4	+ 0.1	98	8	33	23	16	2.83	−0.17	1.76	21	0	5	23	6	1	s.	Soil Conservation Service
Fayette	Howard	760	67	71.8	+ 3.7	102	8	39	23	64	4.67	−0.29	3.46	20-21	0	4	21	7	2	se.	Irvin E. Schnell
Fulton	Callaway	818	59	71.2	+ 2.3	101	4†	38	23	55	3.36	−1.13	2.25	20-21	0	5	26	2	2	sw.	Frank E. Hillgartner
Grant City	Worth	1,134	43	70.7	+ 3.7	100	8	85	30	55	1.60	−3.09	1.19	10-11	0	3	20	5	5	s.	J. Homer Korn
Hannibal	Marion	759	55	70.7	+ 3.0	100	4	39	30	63	2.11	−1.86	2.01	20-21	0	5	17	8	5	se.	Hannibal Water Dept.
Kansas City Airport	Jackson	741	58	73.8	+ 4.9	109	3	43	30	58	4.01	+0.19	3.21	20-21	0	5	13	12	5	sw.	U. S. Weather Bureau
Kansas City Univ.	Jackson	908	9	73.7	+ 3.2	108	3	42	23†	9	5.65	+1.85	4.22	20-21	0	3	19	4	7	sw.	University of Kansas City
Kidder	Caldwell	1,020	55	70.4	+ 3.1	100	8	38	30	59	4.36	−0.84	3.00	20-21	0	4	20	5	5	s.	Mrs. Geraldine Terry
Kirksville	Adair	969	58	70.8	+ 4.5	103	8	37	30	65	5.87	+0.69	5.18	20-21	0	6	21	3	6	sw.	Arthur Lee Jones
Kirksville Airport	Adair	970	8	69.0	......	101	4†	38	30	8	5.54	......	4.51	20-21	0	7	11	11	8	s.	Civil Aeronautics Adm.
Lathrop	Clinton	1,071	0	71.5	......	103	3	38	30	0	4.95	......	4.10	20-21	0	6	22	6	2	s.	E. L. Fisher
Louisiana	Pike	469	53	71.1	+ 3.1	102	8	35	23	66	2.40	−2.03	1.75	20-21	0	4	20	8	2	s.	Stark Bro's Nurseries
Macon	Macon	875	48	69.4	+ 1.5	100	8	40	30	54	5.95	+1.51	4.68	20-21	0	6	17	6	7	se.	John W. Atwell
Maryville	Nodaway	1,169	57	68.8	+ 3.2	94	3†	37	30	53	1.58	−3.10	0.92	10-11	0	6	17	8	5	se.	R. B. Montomery
Memphis	Scotland	787	8	69.6	......	103	8	36	30	17	7.19	+3.01	4.74	20-21	0	6	14	12	4	sw.	John W. Alexander
Mexico	Audrain	800	58	71.1	+ 2.6	103	8	40	23†	69	2.61	−2.36	2.37	20-21	0	3	17	3	10	se.	Darrence W. Stuart
Moberly .....3½ mi. NE	Randolph	860	10	71.0	+ 3.9	100	5	42	23†	10	5.42	+1.94	4.65	20-21	0	6	18	10	2	sw.	Robert A. Berg
New Florence. 1 mi SE	Montgomery	885	4	70.4	......	104	4	38	23	5	3.06	......	1.83	20-21	0	5	14	8	8	s.	U. S. Weather Bureau
Oregon	Holt	1,048	91	72.0	+ 4.9	108	3	38	30	91	1.32	−3.78	0.71	10-11	0	6	25	1	4	s.	James M. Curry
Polo	Caldwell	1,000	1	70.8	......	102	3†	39	30	1	4.44	......	3.55	20-21	0	7	22	6	2	s.	F. B. Albright
St. Charles	St. Charles	520	59	73.0	+ 4.7	101	8	41	23	69	2.55	−1.29	1.42	21	0	5	16	7	7	e.	Mrs. Myrtle Bregel
St. Joseph Airport	Buchanan	957	37	72.0	+ 3.6	107	3	40	30	75	1.57	−2.35	0.82	10-11	0	5	18	7	5	s.	U. S Weather Bureau
Salisbury	Chariton	723	1	71.8	......	103	8	40	23	1	4.40	......	3.70	20-21	0	6	19	6	5	s.	David H. Robertson
Saverton, Lock No. 22.	Ralls	472	9	71.2§	......	99	4	40	23	9	3 16	−0.39	1.70	20-21	0	5	20	7	3	s.	Lockmaster
Shelbina	Shelby	779	6	71.4	......	104	8	39	30	54	6.35	+1.41	6.06	20-21	0	5	17	7	6	sw.	Guyman Hatcher
Steffenville	Lewis	650	49	71.6	+ 2.6	104	8	39	27†	54	5.59	+1.09	5.17	20-21	0	5	17	10	3	se.	Mrs. Fannie V. Gross
Tarkio	Atchison	916	44	69.0	+ 2.7	100	3	38	25	53	0.69	−3.55	0.40	10-11	0	5	14	11	5	s.	Civil Aeronautics Adm.
Trenton	Grundy	822	51	72.3	+ 5.1	103	8	40	30	52	4.24	−0.51	3.40	20-21	0	7	21	6	3	s.	W. H. Estes
Unionville	Putnam	1,062	54	68.5	+ 1.4	102	8	36	30	54	4.26	−0.83	2.93	20-21	0	6	22	4	.4	s.	George D. Choate
Vandalia	Audrain	766	3	70.6	......	103	7	37	23	8	1.76	......	1.39	20-21	0	3	22	7	1	e.	Mrs. Naomi K. Stoutz
Warrenton	Warren	816	65	71.3	+ 2.3	105	4	37	23	57	3.73	−0.63	2.33	20-21	0	7	16	11	3	sw.	W. T. Zimmerman
Keokuk, Iowa	Lee, Ia.	574	75	70.3	+ 2.8	98	4	38	30	75	3.13	−0.71	3.06	20-21	0	4	18	8	4	sw.	U. S. Weather Bureau
Division means	**and extremes**	.....	..	**71.0**	**+ 3.3**	**109**	**3**	**33**	**23**	..	**3.87**	**−0.32**	**6.06**	**20-21**	**0**	**5**	**18**	**7**	**5**	**s.**	
Southwestern Division																					
Anderson ...1½ mi SW	McDonald	1,000	43	70.4[a]	− 0.6	104[a]	3†	38[a]	23	48	3.04	−0.84	1.88	20	0	2	25[b]	0[b]	3[b]	sw.	Samuel G. Chamberlain
Appleton City. 2 mi. W	Bates	813	52	72.8	+ 2.4	105	3†	41	23†	55	5.58	+1.20	8.38	20-21	0	5	22	6	2	sw.	F. Paul Eye
Bolivar	Polk	1,071	44	74.3	+ 4.4	106	7	43	23	52	3.52	−0.69	2.10	20-21	0	5	19	7	4	sw.	Southwest Baptist College
Boonville	Cooper	650	9	70.0	+ 1.7	100	4†	38	23	70	4.65	−0.54	3.66	20-21	0	7	19	7	4	s.	Boonville Water Dept.
Butler	Bates	865	1	72.3[f]	......	106[b]	3	41[k]	23	6	4.49	......	3.70	20-21	0	5	16[b]	7[b]	5[b]	e.	Harley W. Johnson
Camdenton	Pulaski	940	1	74.2	......	107	7	40	23	1	3 94	......	2.15	20-21	0	6	19	6	5	sw.	Mo. Conservation Com.
Carthage	Jasper	962	13	74.6	......	107	3†	42	23	23	4.16	......	3.76	20-21	0	4	11	17	2	w	Carthage W. and E. Plant
Clinton	Henry	786	54	73.0	+ 2.2	106	4†	41	23	60	5.17	+0.65	3.11	20-21	0	4	17	9	4	s.	U. S. Weather Bureau
Eldon	Miller	934	52	72.4	+ 3.0	105	4	39	23	48	3.98	−0.64	2.32	20-21	0	5	12	14	4	ne.	Arthur Rothwell
Harrisonville	Cass	904	69	72.6	+ 4.1	108	3	43	30	72	5.94	+1.04	3.98	20	0	4	24	1	5	s.	Jeffrey B. Patterson
Jefferson City	Cole	557	57	72.0	+ 2.7	104	8	38	23	65	3.89	−0.34	2.11	20-21	0	5	16	9	5	sw.	K. W. O. S. Radio Farm
Joplin Airport	Jasper	988	25	75.0	+ 2.9	105	3†	44	23	42	4.70	+0.78	3.57	20-21	0	4	14	11	5	s.	Civil Aeronautics Adm.
Lakeside	Miller	595	16	72.2	+ 1.2	106	7	39	23	16	3.78	−0.62	2.57	20-21	0	5	16	9	5	se.	W. S. Frame
Lamar	Barton	980	59	71.9	+ 1.1	105	3†	41	23	66	4.08	−0.47	2.70	20-21	0	5	22	6	2	sw.	Mrs. Marie Mann
Lebanon	Laclede	1,265	59	72.2	+ 2.8	106	7	38	23	60	3.77	−0.72	2.49	20-21	0	7	15	11	4	sw.	Mrs. Rosa E. Montelius
Lexington‡	Lafayette	688	62	75.9[f]	+ 7.1	106[f]	3	45[e]	23	63	4.98§	+0.21	3.81	20-21	0	4	18[e]	6[e]	1[e]	sw.	Walter L. Savio
Lockwood	Dade	1,078	41	75.0	+ 4.1	108	7	44	23	51	3.58	−1.20	3.36	20-21	0	3	19	9	2	sc.	Hubert A. Nieman
Marshall	Saline	779	60	72.4	+ 3.6	100	4†	42	23†	57	3.00	−2 50	2.58	20-21	0	4	18	8	4	s.	Thomas A. Reid
Monett	Barry	1,317	0	73.6	......	103	4	42	23	0	5.45	......	3.64	20-21	0	4	24	4	2	s.	Mo. Univ. Fruit Exp. Sta.
Mountain Grove	Wright	1,463	46	73.0	+ 4.1	104	4	38	23	50	4.47	+0.41	3.59	20-21	0	7	15	12	3	se.	Mo. Fruit Exp. Station
Mount Vernon	Lawrence	1,174	35	74.6	+ 4.1	106	7	41	23	47	4.12	+0.28	2.17	20-21	0	4	20	8	2	se.	James C. Williamson
Neosho	Newton	1,011	60	74.4	+ 3.9	105	7	41	23	64	3.57	−0.72	2.94	20-21	0	5	21	5	4	se.	U. S. Fisheries Station
Nevada	Vernon	862	54	74.6	+ 5.1	108	7	42	23	55	7.96	+3.65	4.91	11	0	4	22	4	4	sw.	Henry Kraft
Ozark Beach	Taney	700	7	74.4	......	106	7	41	23	22	3.56	+0.37	1.90	20-21	0	5	14	15	1	sw.	Empire District Elec. Co.
Sedalia	Pettis	910	34	73.6	+ 4.4	102	4†	42	23	36	4.61	−0.29	2.98	20-21	0	7	19	7	4	sw.	Dr. J. E. Cannaday
Seligman	Barry	1,542	46	72.3[c]	+ 2.7	102[c]	4†	42[c]	23	44	3.81	+0.13	2.57	20-21	0	4	14[c]	9[c]	4[c]	w.	Floyd E. Fawver
Seymour ....4 miles NE	Webster	1,642	41	69.8	+ 1.0	101	7	37	22	41	3.29	−0.73	2.24	20-21	0	4	24	3	3	s.	Ira H. Hailey
Springfield... 4 mi. NW	Greene	1,265	59	71.9	+ 3.5	104	7	42	23	59	4 69	+1.17	2.19	11-12	0	7	16	10	4	s.	U. S. Weather Bureau
Sweet Springs	Saline	700	6	72.0	......	104	4	41	23	6	4.30	......	3.58	20-21	0	5	19	8	3	s.	H. F. Nelson
Warrensburg	Johnson	878	60	74.6	+ 4.4	104	4†	42	30	67	4.56	−0.22	3.86	20-21	0	5	22	6	2	s.	Central Teachers College
Warsaw	Benton	687	46	75.0	+ 4.5	108	7	41	23	52	3.64	−1.39	2.68	20-21	0	5	19	9	3	sc.	Dora B. Johnson
Wasola	Ozark	1,294	6	73.0§	......	103	4†	39	23	7	3.04	......	1.84	20-21	0	4	24	3	3	s.	A. W. Pinckney
Waynesville	Pulaski	805	1	....	......	..	..	..	..	1	....	......	..	..	....	..	..	..	..	......	Jesse H. Barlow
Division means	**and extremes**	.....	..	**73.0**	**+ 3.0**	**108**	**3†**	**37**	**22**	..	**4 33**	**+0.04**	**5.00**	**20-21**	**0**	**5**	**19**	**8**	**3**	**s.**	
Southeastern Division																					
Advance.... ¼ mile W	Stoddard	354	10	70.6	+ 0.8	102	8	37	24	10	2.16	−0.48	1.20	21	0	6	18	6	6	s	U. S. Weather Bureau
Arcadia	Iron	926	66	70.0	+ 2.4	105	8	34	23	69	2.69	−1.29	1.54	21	0	4	19	5	6	e.	Arcadia College
Birch Tree... ½ mile E	Shannon	1,000	52	71.8	+ 2.0	104	7	35	23	53	3.54	−0.14	1.52	20-21	0	6	18	10	2	ne.	Mrs. Mildred E. Catlett
Black.......9 miles NW	Iron.	1,000	54	67.8	0.0	102	8	31	23	54	2.78	−1.08	1.77	21	0	6	15	13	2	sw.	M. L. Volner
Campbell	Dunklin	314	21	74.8[e]	+ 3.2	102[e]	7†	42[e]	23	21	3.43	−0.44	1.80	21	0	6	18[e]	7[e]	2[e]	s.	Mrs. Ruth Christian
Cape Girardeau	Cape Girardeau	347	2	72.3	......	98	1†	41	23	47	3.36	−0.65	2.01	21	0	7	17	11	2	ne.	State Teachers College
Caruthersville	Pemiscot	265	51	75.0	+ 0.5	101	5	45	30	55	0 94	−2.27	0.53	21	0	3	22	3	5	e.	Victor T. Malloure
Clearwater Dam	Wayne	648	1	71.5	......	102	4†	37	23	1	3.72	......	1.40	20-21	0	6	21	6	3	n.	U. S. Engineer Office
Crystal City	Jefferson	420	13	71.8	+ 2.9	102	4	35	23	13	1.96	−1.42	0.81	20-21	0	5	18	2	10	se.	Richard K. Ragland
Doniphan	Ripley	344	43	73.2	+ 2.0	106	8	37	23	43	2.98	−0.63	1.59	29	0	3	22	5	3	nc.	Boyce Lackey
Farmington	St. Francois	896	36	70.0	+ 0.4	103	8	34	23	50	3.05	−0.75	1.82	20-21	0	7	16	9	5	n.	F. M. Karsch
Greenville ...1 mile SW	Wayne	415	38	72.0	+ 1.2	102	4†	37	23	40	3.52	+0.20	1.27	20-21	0	7	15	12	3	sw.	Beuford Shoemake
Jackson.	Cape Girardeau	428	56	72.7	+ 2.6	100	1†	39	23	57	3.59	−0.43	2.28	21	0	5	20	7	3	se.	Danny Siebert
Koshkonong	Oregon	958	46	74.6	+ 3.2	105	4	40	23	47	1.37	−2.27	0.72	20-21	0	6	25	1	4	se	Mrs. Genevieve T. Smith
Licking...... 4 miles N	Texas	1,170	10	71.1§	+ 2.1	102	4†	36	23	10	4.04	−0.50	....	..	0	6	13[a]	5[a]	11[a]	s.	Fern E. Austin

Continued on next page

Climatological Data for September 1947—Continued from preceding page

Stations	Counties	Elevation, feet	Temperature, in degrees, Fahr.							Precipitation, in inches						Number of days				Prevailing direction of wind	Observers
			Length of record, years	Mean	Departure from the normal	Highest	Date	Lowest	Date	Length of record, years	Total	Departure from the normal	Greatest in 24 hours [4]	Date	Total snowfall, unmelted	With precip., .01 inch or more	Clear	Partly cloudy	Cloudy		
Southeastern Division—*Concluded*																					
Marble Hill	Bollinger	532	52	71.4	+ 0.7	102	8	37	24	54	2.93	−0.95	1.10	14–15	0	5	22	5	3	sw.	R. A. DeWitt
Poplar Bluff	Butler	339	42	72.8	+ 1.1	102	1†	41	23	43	2.50	−1.39	1.33	20–21	0	6	21	3	6	n.	Osmon M. Richardson
Rolla	Phelps	1,202	47	70.8	+ 2.1	104	4†	39	23	63	4.87	+0.73	2.28	20–21	0	4	19	7	4	n.	Rolla School of Mines
St. Louis:																					
City Office		465	110	72.4	+ 1.9	97	8	43	30	110	2.64	−0.82	1.79	20–21	0	5	18	5	7	s.	**Section Center**
St. Louis Airport	St. Louis	556	10	71.2	+ 2.4	101	8	41	30	16	3.03	−1.34	1.78	21	0	5	16	4	10	s.	U. S. Weather Bureau
St. Louis University	St. Louis City	578	35	71.8	+ 0.9	96	8	43	30	35	2.28	−1.48	1.47	20–21	0	5	22	5	3	se.	St. Louis University
Salem	Dent	1,206	43	70.7	+ 1.5	104	4†	36	23	46	2.81	−1.07	1.70	20–21	0	6	17	9	4	s.	E. E. Martin
Sikeston	Scott	318	40	72.8	+ 1.7	103	8	40	23	50	4.02	+0.14	2.06	21	0	9	14	14	2	e.	Mrs. Lucy W. Humphreys
Union ....1½ mi. SE	Franklin	520	9	71.2	+ 2.1	109	4	35	23	30	2.76	−1.43	1.57	20–21	0	7	13	12	5	n.	Cornelius Sieges
Vichy ....2 mi. NW	Maries	1,125	11	71.5	......	104	8	42	23†	12	2.67	......	1.45	20–21	0	5	14	9	7	s.	Civil Aeronautics Adm.
Wappapello Dam	Butler	475	8	72.4	......	100	8	42	23	8	3.42	+0.41	1.55	21	0	8	26	1	3	s.	U. S. Engineer Office
Webster Groves	St. Louis	507	1	71.1	......	101	8	36	23	2	2.65	......	1.59	21	0	4	20	7	3	se.	R. W. Lawrie
Weingarten	St. Genevieve	833	6	70.8	......	106	8	36	23	7	2.60	......	1.02	21	0	5	14	14	2	s.	William J. Miller
West Plains	Howell	1,005	10	71.6	+ 2.6	105	4	39	23	10	4.34	+1.20	1.92	20–21	0	7	17	6	7	se.	U. S. Weather Bureau
Willow Springs 500 ft E	Howell	1,238	6	71.6	......	103	4†	40	23	40	4.33	+0.25	2.16	20–21	0	5	18	8	4	s.	Allen Frazee
Cairo, Ill.	Alexander, Ill.	314	75	73.2	+ 0.7	98	8	45	23	76	2.40	−0.49	1.15	21	0	6	16	8	6	ne.	U. S. Weather Bureau
Division means	**and extremes**	.....	..	71.8	+ 1.7	109	4	31	23	..	3.28	−0.36	2.94	21	0	6	18	7	5	s.	
State means	**and extremes**	.....	..	71.9	+ 2.6	109	3†	31	23	..	3.83	−0.21	6.06	20–21	0	5	18	7	5	s.	

The departures from normal temperature are computed from the averages of the entire period for stations having 10 or more years of record. Departures of precipitation for stations with 15 years or more of record are computed from a normal or "standard mean", adjusted to a uniform 35-year period; for stations of 10 to 14 years the means for the period of record are used. The normal may be found by adding the departures when minus (−) or subtracting when plus (+). Figures and letters following stations indicate distance in miles and direction of station from the city Post Office, unless otherwise indicated. T. Trace or 0.005 inch or less. ^{a}, ^{b}, ^{c}, etc., number of days missing; for example, ^{b}, indicates two days missing. Italics data interpolated. § Partly interpolated. † And other dates. ‡ Received too late to be included in means and summaries. [4] Best available used for stations not equipped with recorders. Post office address of: Altona is Adrian; Clearwater Dam is Piedmont; Crane Mountain is Arcadia; East End is Goodland; Eastwood Lookout is Van Buren; Hailey is Cassville; High Lookout is Birch Tree; Macedonia Lookout is Doniphan; Oates Tower is Centerville; Perry is Center; Pineview Lookout is Cape Fair; Sugar Camp Lookout is Seligman; Topaz is Cabool; Wilderness Lookout is Lampe. (C) Airport. ¶ Indicates plus.

(Continued from page 65)

All crops and grasses continued to suffer from the prolonged hot, dry weather the first 10 days of the month. On the 11-12th rather general and beneficial showers brought temporary relief from the drought, but unusually warm weather continued until the 20-21st, when both the heat and droughty conditions were greatly relieved, over most of the State, by general and generous amounts of rain, and the lower temperatures which continued throughout the remainderof the month. All growing crops and pastures responded rapidly to the fine rain and the cooler weather and showed remarkable improvement by the end of the month. However, much damage had already been done to corn, soybeans, cotton, and lespedeza fields and ultimate yields from these crops, it seemed, would be cut short. One favorable feature of the month's weather was the absence of damaging frosts, or freezing temperatures. A hard freeze or killing frost would have been very disastrous, due to the fact most crops had been planted later than usual, because of continued wet weather during the spring and early summer months. The bulk of the corn crop was safe from frost damage by the end of September, but much of the later planted corn was still not out of danger at that time. Considerable corn was cut for silage, or shocked, and some picking had begun by the end of the month. Soybeans were also damaged considerably by the drought and, since much of the crop was planted late, a large portion was expected to be cut for hay, since time was getting short for much of the crop to mature sufficiently to be harvested for grain. Cotton, too, suffered and yields were cut short by the hot, dry weather; bolls were opening and picking had begun late in the month. Pastures and late gardens were revived and improved greatly during the latter part of September. Fall plowing was being done during the latter part of the month and a small amount of wheat, rye, and barley was sown. Harvesting of late apples was under way, as the month closed, but a heavy drop of the crop, due to the prolonged hot and dry weather, reduced the yield. A good crop of late peaches was picked during the first half of the month; the quality however was affected by the drought. More rain was needed as the month ended, to keep the ground in good condition for plowing and seeding of fall crops, to keep grass, pastures, and late gardens growing and in good condition, as well as to further increase the low water supplies in many areas of the State.—M. R. W.

TEMPERATURE

The monthly mean for the State, 105 stations reporting, was 71.9°, or 2.6° warmer than the 60-year September average. The highest monthly mean was 75.0° at Joplin Airport, Lockwood, Warsaw and Caruthersville, and the lowest was 67.8° near Black. The highest reported was 109° at Kansas City Airport on the 3d and at Union on 4th, and the lowest was 31° near Black on the 23d.

PRECIPITATION

The average for the State, 208 stations reporting, was 3.83 inches, or 0.21 inch less than the 60-year September average. The greatest monthly amount was 7.96 inches at Nevada, and the least was 0.69 inch at Tarkio. The greatest amount reported in 24 hours was 6.06 inches at Shelbina on the 20-21st. The average number of days with 0.01 inch, or more, was 5.

MISCELLANEOUS PHENOMENA

Auroras.—3d, 13th, 14th, 22d, 23d, 24th, 25th.

Fog.—Heavy, 10th.

Frost.—Light, 16th, 22d, 23d, 24th.

Hail.—Moderate, 11th at Fulton; heavy, 11th in eastern Mercer County. (See special storm table).

Tornadoes.—11th. (See special storm table).

Windstorms.—4th. (See special storm table).

ERRATA

April 1947, page 26: Number of days with 0.01 inch or more of precipitation at Jefferson City should be 17.

May 1947, page 34: Mean temperature and departure at Warrensburg should be 63.6 and − 1.4, respectively. Page 39: Mean minimum temperature at Warrensburg should be 52.0^{a}.

Daily Precipitation for September 1947

Stations	Drainage-basins	Day of month																															Total
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	..	
Northern Division																																	
Albany	Grand			.06							.07	1.00	T.								.11	.74							.15				2.13
Amity	do			T.	.04						T.	.58	T.								.52	1.76							T.		T.		2.90
Auxvasse	Missouri			.10							T.	.27	.10								T.	2.02											2.49
Bethany	Grand			.20		.09						.99	T								.20	1.18							.12				2.78
Bowling Green[2]	Mississippi					.03					.73		.28			.05						*	1.66										2.75
Brookfield[2]	Grand											.40	.30									3.29											3.99
Browning 3 mi. NE	do			.02							.01	1.12	T.								.44	3.12							.01		T.		4.72
Brunswick[2]	do				.11						T.	.32	.37									3.27	.11						.03				4.21
Canton, Lock No. 20[2]	Mississippi	.05			T.							T.	.03									3.89	.20						.02	T.			4.19
Carrollton	Missouri			.02							.09	.76									.15	3.44							.01				4.47
Centralia[2]	Mississippi												.46									3.15	T.										3.61
Chillicothe[2] (B)	Grand			T.								.76	.24									4.10							T.				5.10
Chillicothe[3] 2 mi ESE (C)	do			T.	T.						.54	.37	T.								3.93	.91							.01		.01		5.77
Columbia[1, 5]	Missouri			.21							.02	.35	T.								.58	2.18							T.		T.		3.34
Columbia[5] 9 mi. WNW	do			.36							T	.41	.06									3.31											4.14
Conception	do			.15							T.	2.41	T.								.12	.35							T.				3.03
Edgerton[2]	do				T.							.75	.04									3.20											3.99
Edina[2]	Mississippi				.12						.50	.48	.20									5.08	T.						.06				6.44
Elsberry S. C. S.[2]	do				T.							.25	.50			.32						.50	1.26										2.83
Fayette	Missouri			.46							.05	.70									T.	3.46							T				4.67
Fulton[2]	do				.03								.79			.01						2.23	.30										3.36
Gallatin[2]	Grand			.30								.72	.30									3.59											4.91
Grant City	do			T.	.10						T.	1.19	T.								T.	.31									T.		1.60
Hannibal[1] (A)	Mississippi			.02							.01	.07									.21	1.80											2.11
Hannibal[2] (B)	do				T.	T.						T.	.04									1.29	.34										1.67
Hermann[2]	Missouri	.04										T.	.54			.45						.75	1.00										2.78
Kahoka[2]	Mississippi	.19			.02							1.61	.60									4.80	.08						.08				7.38
Kansas City Airport[1, 5]	Missouri				T.						.08	.70	T.								2.79	.42							T.		.02		4.01
Kansas City University	do											1.43									*	4.22							T.				5.65
Kidder[2]	Grand			.16								1.00	.20									3.00											4.36
King City	Missouri				.10						.65										.21	.73											1.69
Kirksville	Mississippi			.08	.01					T.	T.	.52	T.								.25	4.93							.08				5.87
Kirksville Airport[3, 5]	do			.05						T.	.36	.57	.03								2.81	1.70						T.	.02		T.		5.54
LaBelle[2]	do				T.							.55										5.00											5.55
Lathrop	Grand			.10	.01							.73	.01								2.00	2.10											4.95
Linneus	do			.02							.10	.68									.04	3.21							.03				4.08
Louisiana (A)	Mississippi			.08							.24	.33										1.75											2.40
Louisiana[2] (B)	do	.09			.10							.37	.40	T.		.02						.36	1.44										2.78
Lucerne[2]	Grand			.40	.20							*	.80									2.00							.10				3.50
Macon[2]	Chariton			.42	.07							.51	.27									4.60	.08						T.				5.95
Madison[2]	Mississippi			.18									.24									4.29											4.71
Martinsburg[2]	Missouri				T	T.						.25	.32			T.						1.27	.56						T.	T.			2.40
Maryville	do			.25	.09						.60	.32	T.								.09	.23											1.58
Memphis[2]	Mississippi	.19			.20							1.28	.66									4.74							.12				7.19
Mexico[2]	do				T.								.24									2.23	.14										2.61
Milan[2]	Grand			.10								.70	.14									4.43							.14				5.51
Moberly[2] 3½ mi. NE	Mississippi			.20	T.						.04	.21	.32									4.60	.05										5.42
Monroe City	do			.30								.06	T.								.06	3.98											4.40
New Florence[3, 5] 1 mi SE	Missouri			.05							T.	.57			.61	T.					.04	1.79							T.				3.06
Oregon	do				.05						.20	.71	.06								.08	.22									T.		1.32
Palmyra[2]	Mississippi											.28	.06									3.02	.18										3.54
Paris[2]	do			.13								.04	.12									4.29	.05							T.			4.63
Perry 1 mile E	do			.08																	.12	2.18											2.38
Philadelphia	do			.06						.20	.03	.10	.01								T.	5.10											5.50
Polo[2]	Missouri			.13	.02						.08	.38	.25	T.								3.55							.03				4.44
St. Charles[2]	do	.08				T.						.47	.28			.30						T.	1.42							T.			2.55
St. Joseph Airport[1, 5]	do				T.						.70	.12	T.								.59	.13						T.	.01		.02		1.57
Salisbury	Chariton			.24							T.	.41	.04								.11	3.59							.01				4.40
Saverton, Lock No. 22[2]	Mississippi	1.24			.06	T.						T.	.16									1.23	.47							T.			3.16
Shelbina	do			.06								.14	.09								1.18	4 88											6.35
Shelbyville	do			.08						.27		.18										5.73											6.26
Steffenville	do			.09								.29	.04								.04	5.13											5.59
Tarkio[3]	Missouri			.01							.21	.40	.01								.06							T.			T.		0.69
Trenton[2]	Grand			.05	.03							.50	.19	.01								3.40							.06	T.			4.24
Troy[2]	Mississippi	.08			T.						.03	.32	.40			.20							1.79							T.			2.82
Unionville[2]	Chariton	.02		.15	.15						T.	.76	.25									2.93							T.				4.26
Vandalia	Mississippi			.07								.30										1.39							T.				1.76
Warrenton	do			.03					T.		.11	.92	T.		.05	.29					.21	2.12											3.73
Keokuk, Iowa[1]	do			T.							T.	T.	.05								.48	2.58						T.	.02				3.13
Southwestern Division																																	
Altona[2]	Osage										T.	.50	1.34									5.00											6.84
Anderson[2] 1½ mi. SW	Neosho											1.16			T						T.	1.88											3.04
Appleton City 2 mi. W	Osage										.04	2.12	.04								.81	2.57											5.58
Ava Ranger Station[2]	White																																....
Bolivar	Osage											1.22	.10			.10					.29	1.81											3.52
Boonville[2] (A)	Missouri			.08	.20					.10		.03	.58									3.12	.54										4.65
Boonville[2] (B)	do				.45					.03		.02	.55									3.10	.15										4.30
Bradleyville[2]	White												.37			.31						2.01	.18										2.87
Buffalo[2]	Osage												.75			.85						2.40	.55							.84			5.39
Butler	do										.07	.70	.02								*	3 70							T.				4.49
Camdenton	do										.15	.75	.30		.31	.28						2.15											3.94
Caplinger Mills[2]	do												.88			T.						2.13	T.							.08			3.09
Carthage	Neosho											.25	.15								.94	2 82											4.16
Cassville[2]	White									T.			1.30	T.		.12						1.77	.12										3.31
Chadwick[2]	do										T.		.89									1.73	.33										2.95
Clinton[3]	Osage										.04	2.02	T.								1.12	1.99							T.				5 17
Concordia	Missouri									T.	.04	.56									.36	3.98							T.				4.94
Crocker	Osage			.05								*	2.03			.33						2.41								.08			4.90
Eldon	Missouri										T.	.80	.29		.33	.24					T.	2.32											3.98
Eldorado Springs	Osage											.84	.19			.06					.55	1.30								.04			2.98
Elijah[2]	White																																....
Forsyth[2]	do												.60			.40						1.45	.29										2.74
Galena[2]	do										.37		1.68			T.						1.43	.09										3.57
Granby[2]	do												.81			.01						2.86	.21										3.89
Hailey	do											.34	.76								.81	2.98											4.89
Harrisonville[2]	Osage										.02	.49	1.45									3.98											5.94
Jefferson City[2] (A)	Missouri				.52	T.				T.			1.18			.08						1.58	.53			T.	T.						3.89
Jefferson City[2] (B)	do				.52					T.			1.03			.07						1.28	.29										3.19

Continued on next page

Daily Precipitation for September 1947—Continued from preceding page

Stations	Drainage-basins	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	..	Total
Southwestern Division—	*Concluded*																																
Joplin Airport³	Neosho										.03	1.10									1.75	1.82				T.							4.70
Lakeside², ⁵	Osage											T.	.81			.35						2.24	.33							.05			3.78
Lamar²	Neosho									.10		.30	.98									2.65	.05										4.08
Lebanon²	Osage										.04		.77			.03						2.17	.32							.40	.04		3.77
Lexington²‡	Missouri										.40	*	.77									3.81											§4.98
Lockwood	Osage								T.			.22									.55	2.81											3.58
Mansfield²	White										.10		.55			.27						3.62	.57							.41			5.52
Marshall	Missouri			T.						.02	T.	.34	.06								T.	2.58											3.00
Marshfield²	White												1.10			.41						2.40	.28							.35	T.		4.54
Monett²	Neosho												1.76			.05						3.60	.04										5.45
Mountain Grove²	Gasconade									.06	.08		.22			.05						2.95	.64							.47			4.47
Mount Vernon²	Neosho												1.83			.12						1.92	.25										4.12
Neosho	do											.31	.30								.73	2.21					.02						3.57
Nevada	Osage										.03	4.91									.59	2.43								T.			7.96
Osceola²	do											.03	.93									2.99	.01										3.96
Ozark²	White												1.17									1.58	.55										3.30
Ozark Beach²	do											.06	.53			.87						1.90	.20										3.56
Pierce City²	Neosho												1.71									3.10	.11										4.92
Pineview Lookout²	White																																
Pleasant Hill²	Osage					T.						.60	.80									4.44											5.84
Roby	Gasconade											.82	.08		T.	.77					.09	2.08								.35			4.19
St. Thomas². 2¼mi SW	Osage				.25								1.00			*.30*						*	1.74							T.			§3.29
Sedalia	Missouri				.05					.05	.02	1.30	.21								.08	2.90											4.61
Seligman²	Neosho										T.		1.22	.02								2.55	.02										3.81
Seymour² 4 mi. E	White										T.			.44		T.						1.60	.64							.61			3.29
Shell Knob² 3 mi. SE	do												1.42	T.		.16						3.35	.20										5.13
Siloam Sprgs Lookout²	do												.79			1.80						2.60	.25							.37			5.81
Springfield¹,⁵. 4 mi. NW	Osage									.10		2.09	.10		.29						.46	1.64								.01			4.69
Stover²	Missouri												1.49			.02						2.55											4.06
Sugar Camp Lookout²	White																																
Sweet Springs	Missouri			T.						.20	.05	.47	T.								.09	3.49											4.30
Tecumseh² ¼ mi. W	White												.60	T.		1.00						3.12	.69										5.41
Topaz²	do												.45			.85						2.30	1.11							.30	.02		5.03
Vanzant² 3¾ mi. SE	do											.45			1.84							1.84	1.01							.25			5.39
Waco²	Spring											.80	1.03									2.66											4.49
Warrensburg	Missouri										.05	.58	.07								.45	3.41							T				4.56
Warsaw² (A)	Osage											.02	.90			.04						2.60	.08										3.64
Warsaw² (B)	do																																
Wasola²	White												.71			.49						1.02	.82										3.04
Waverly²	Missouri				.10							.32	.42									4.32											5.16
Waynesville	Gasconade																																
Wilderness Lookout²	White										.30		1.05	.03		.54						2.17	.19										4.28
Southeastern Division																																	
Advance³ ¼ mile W	St. Francis											.01	.62		.05	.03						1.20								.25			2.16
Alton 10 miles SE	Black												.24									1.25								.33			1.82
Annapolis² 7 mi. W	do											T.	1.29			.26						.35	1.06							.16	.24		3.36
Arcadia²	St. Francis	T.									.39		.61			.15						T.	1.54										2.69
Belleview²	Meramec										.46		.57			.14						.22	1.54										2.93
Bernie²	St. Francis	.22										.37	.62	.05									1.93							T.	.36		3.55
Birch Tree² ½ mile E	Black												.90			.71						.93	.59							.37	.04		3.54
Black 9 miles NW	do									.40		.19	.16			.18						1.77								.08			2.78
Bloomfield²	St. Francis	1.82								.60			.31			.54							1.58							T.	.40		5.25
Bunker² 4 miles NW	Black										.45		.55			.18						1.50	.55							.72	T.		3.95
Campbell	St. Francis									.33			.65			.15						1.80	.10							.40			3.43
Cape Girardeau (A)	Mississippi	T.								.21			.12			.02						2.00	.01							*	1.00		3.36
Cape Girardeau² (B)	do	2.30								.36	.01		.13	T.		.01							2.03							.15	.76		5.75
Caruthersville²	do	T.	T.								T.					.15							.53								.26		0.94
Centerville(1)²	Black									.03	.06		.65			.40						.46	1.05							.33	.02		3.00
Centerville(2)²	do										.04	.03	.60			.24						.46	.98							.06	.12		2.53
Clearwater Dam²	do												.82			.25						.45	.95							.40	.85		3.72
Cook Station²	Meramec										.41					.54						1.38											2.33
Crane Mountain²	St. Francis									.16			.70			.09						.74	1.12							.05			2.86
Crystal City	Mississippi									.38		.19	.12			.46						.81											1.96
Cuba	Meramec			T.					*T.*	T.		.85	.03			1.18						2.94							T.				5.00
Deering²	St. Francis												.19			.40							.58								.29		1.46
De Soto	Mississippi									.20		.40	.10			.67						1.07											2.44
Dexter²	St. Francis	.87								T.			.38	.04		.74						.03	1.98								.59		4.63
Doniphan(1)	Black												.41									.98								1.59			2.98
Doniphan(2)²	do												.29									.86	.25							.05	1.30		2.75
East End²	Meramec												.97			.11						.24	1.04										2.36
Eastwood Lookout²	Black																																
Ellington²	do												1.23			.50						.48	1.56							.18	1.22		5.17
Ellsinore	do																																
Farmington²	St. Francis	.06								.27	.34		.41			.15						.74	1.08										3.05
Fisk²	do									.64			.52			.44						.30	.80								.50		3.20
Fredericktown²	do	.03								.94	.20		1.64			.09						.64	.90							T.			4.44
Gerald	Meramec								*T.*		*T.*	.75	.05		.17	.19					1.84												3.00
Greenville² 1 mi. SW	St. Francis										.03		.40			1.08						.78	.49							.38	.36		3.52
High Lookout	Black											.51				1.38					1.00	.84								.75			4.48
Jackson	Mississippi									T.	*T.*		.66			.31						2.28	.03							.31			3.59
Jerome²	Gasconade										T.		1.16			.36						1.94	.42							T			3.88
Koshkonong²	Black												.14			.14						.51	.21							.26	.11		1.37
Leeper²	do											T.	.77	.02		.23						.75	.74							.45	.99		3.95
Licking²	Gasconade												.75			.50						*	2.10							.59	.10		4.04
Macedonia Lookout²	Black												.31			.20						.60	.31							*	1.74		3.16
Marble Hill	Mississippi									.05			.38			1.10						.85								.55			2.93
Morehouse	do									.59			.54									2.08	.42							.42			4.05
Moselle²	Meramec																																
New Madrid²	Mississippi	.08									.54		T.	.05		.16	.07						.62								.41		1.93
Oates Tower²	Black										.08		.55			.75						.40	1.03							.01	.18		3.00
Owensville²	Gasconade												1.14			.30						1.34	.71										3.49
Pacific³ ‡	Meramec	*.09*											.50			.56							1.55										§2.70
Parma²	St. Francis	.05									.02		.90				.19						2.14								.31		3.61
Perryville	Mississippi									*	.70	.56	1.54			.45						1.31											4.56
Poplar Bluff²	Black	T.								T.			.70			.07						.48	.85							.11	.29		2.50
Puxico²	St. Francis	.10											.53			.32						.19	1.20							.25	.48		3.07
Qulin²	do	.03	T.							T.			.51			.27						.18	.78							T.	.32		2.09
Reynolds²	Black										.09		.56			.25						.61	1.05							*	.55		3.11
Richwoods²	Meramec	T.								.20	T.		.61			.50						T.	1.57										2 88
Rolla²	do												1.70			.89						*	2.28										4.87
Round Spring²	Black												.31			.26						.76	1.24							.97			3.54

Continued on next page

Daily Precipitation for September 1947—Continued from preceding page

Stations	Drainage-basins	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	..	Total
Southeastern Division —	*Concluded*																																
St. Louis:																																	
City Office[1], [5]	Mississippi			T.	T.					T.		.24			.33	.28					.03	1.76											2.64
Airport[3], [5]	Missouri			T.	T.						.35	.37			.46	.07					T.	1.78							T.	T.			3.03
St. Louis Univ.[1], [5]	Mississippi				T.							.21			.45	.15					.12	1.35											2.28
Washington Univ.[2]	do	.28											.40			.62						.10	1 66										3.06
Salem[2]	Meramec										.08		.28			.63						.37	1.33								.12		2.81
Sikeston[2]	Mississippi	.14								.68	.05		.37	.05		.01	T.						2.06							.32	.34		4.02
Steelville[2] ...2½ mi. NE	Meramec												.59			1.25							1.89										3.73
Sullivan[2]	do	T.			T.							.19	.80			.42						.16	1.70							T.			3.27
Summersville[2]	Black									.36			.32			.34						1.16	1.32							1.00	.03		4.53
Union[2] ....1½ mi. SE	Meramec	.16								.04		.08	.51			.40						.48	1.09										2.76
Valley Park[2]	do	.08										T.	.53			.40							1.62										2.63
Van Buren[2]	Black												.82			.83						.28	.95							.28	1.74		4.90
Vichy[3] .....2 miles NW	Meramec			T.					T.		T.	.80	T.		.33	T.					.28	1.17							T.	.09			2.67
Wappapello Dam[2]	St. Francis	.12								.04			.95			.16						1.02	.53							.39	.21		3.42
Webster Groves	Mississippi											.28			.36	.42						1.59											2.65
Weingarten	do									.40		*	.98			.20						1.02											2.60
West Plains[3]	Black									.08		.52	.03		1.21	T.					1.33	.66								.51			4.34
Williamsville[2]	do												.19			.55						.60	1.13							.51	.90		3.88
Willow Springs[2] 500 ft E	White												.68			1.23						1.03	1.13							.26			4.33
Winona Ranger Sta.[2]	Black												.70			.95						.95	.35							.88	.14		3.97
Zalma[2]	Mississippi	.11											.43			.97						.65	.85							.20	.22		3.43
Cairo, Ill.[1], [5]	do	.01							T.	.75			.13			.03						1.15								.33			2.40

Except as otherwise indicated, amounts are for 24 hours ending late in afternoon. [1] Midnight to midnight. [2] Measured in the morning; for the preceding 24 hours. [3] Data for 24 hours ending 12:30 A. M. (C. S. T.) of following day. [5] Recording gage. T. Trace or 0.005 inch or less. * Included in next measurement. // Wind-shield on gage. Italics data interpolated. § Partly interpolated. (A) Record from cooperative station gage. (B) Record from river station gage. (C) Airport. ‡ Received too late to be included in means and extremes.

Daily Evaporation (inches), Mean Temperature (F°), and Wind Movement (miles) for September 1947

(See precipitation data in daily precipitation table)

Station	Data	Day of month																															Monthly
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	..	
Columbia (Univ. of Mo. Hort. Exp. Sta. 9 mi. WNW.)	Evaporation	.486	.255	.254	.334	.278	.238	.280	.297	.293	.239	.150	.148	.296	.320	.236	.241	.242	.267	.238	.110	....	.173	.129	....	....	.159	.167	.126	.098	.118	....	6.858
	Mean temperature	86	77	80	84	81	78	84	86	84	84	82	70	70	76	62	64	71	78	79	77	67	59	56	64	66	60	59	65	64	50	..	72.0
	Wind movement	65	17	60	71	24	18	15	19	31	57	51	104	70	116	24	62	50	42	10	3	72	51	14	4	23	21	30	8	86	23	..	1,241
Lakeside (Osage Dam)	Evaporation	.325	.390	.277	.289	.415	.320	.271	.268	.246	.243	.336	.094	.215	.321	.244	.201	.285	.251	.209	.212	.233	.139	.176	.152	.147	.128	.133	.158	.087	.149	....	6.914
	Mean temperature	86	76	78	84	80	80	85	86	80	83	80	74	72	76	64	64	72	76	76	72	70	58	57	62	59	62	64	67	66	54	..	72.2
	Wind movement	47	36	17	61	73	39	23	18	20	45	72	56	90	81	74	47	45	47	45	20	67	69	50	19	17	53	44	67	18	50	..	1,410
St. Louis (Washington University)	Evaporation	.360	.069	.200	.146	.226	.181	.144	.214	.180	.100	.208	.160	.156	.224	.226	.161	.150	.155	.167	.138	.197	.051	.133	.084	.103	.107	.144	.121	.074	.122	....	4.701
	Mean temperature	86	79	76	84	80	79	82	86	78	84	84	76	72	77	65	64	69	74	78	81	73	58	55	62	58	58	58	62	62	51	..	71.8
	Wind movement	28	23	11	24	30	27	11	28	14	35	37	26	24	32	47	21	27	14	30	17	10	88	44	9	24	41	43	27	29	68	..	889

Observations taken at 8:00 a. m. except at 5:00 p. m. at Columbia. For Lakeside and St. Louis (Washington University) descriptions see April 1932 and August 1938 reports. respectively. * Included in next measurement.

Missouri Storms, September 1947

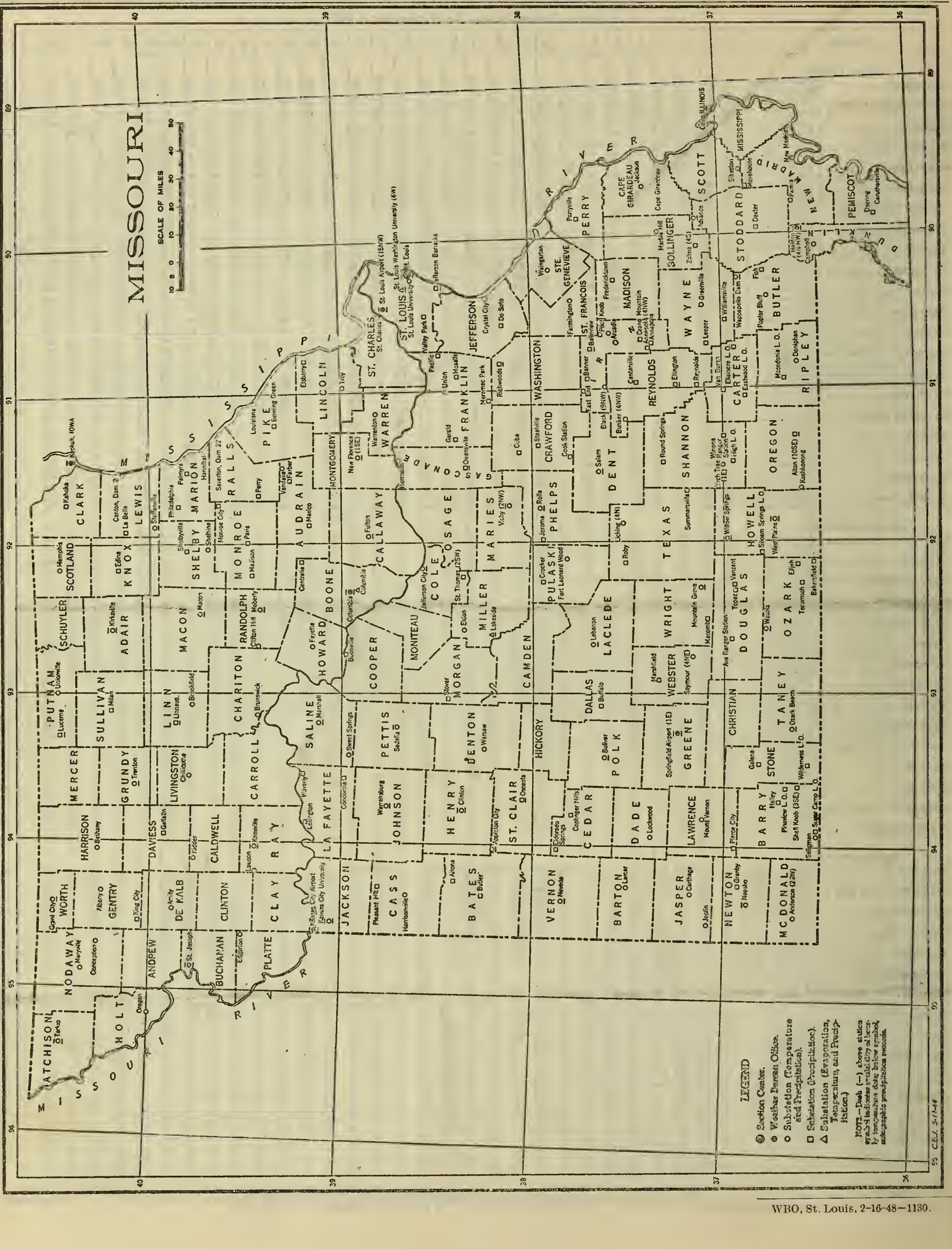
County	Date	Time	Nature of storm	Storm moved from	Width of path (miles)	Length of path (miles)	Loss of life	Property damage (estimated)	Remarks
Putnam	4	2:00 a.m. to 3:00 a.m.	Windstorm	SW	4	....	0	Small	Storm struck the southeastern part of the county and extended to the northern edge of Graysville. Some trees were damaged and several window panes broken and a lot of things were blown over. Nearly all haystacks in the path of the storm had their tops blown off or were blown down completely. Freakish hot gusts of wind preceded the storm.
Mercer and Putnam	11	Early morning before dawn	Tornado	NW	7 to 10	22	0	Unknown	Storm struck the eastern part of Mercer and the western part of Putnam Counties, resulting in considerable property and crop damage. Numerous homes, barns, outbuildings, trees, wires, and a few windmills were damaged or blown down and most haystacks in the storm path were blown down or had their tops blown off and hay was scattered over the fields and roads. Considerable damage was done to corn and soybeans by hail which accompanied the storm. Bulk of the total damage occurred in Mercer County where the towns of Cleopatra and Ravanno were hit by the storm. Crop and property damage was not estimated in reports received on this storm.
Callaway	11	11:10 a.m. to 11:25 a.m.	Tornado	SW	1	5 or 6	0	$10,000	A small local tornado struck the vicinity a few miles south and east of Fulton, damaging a number of homes, barns, outbuildings, trees, and wires and killed some poultry. Moderate hail accompanied the storm and damaged corn and gardens. Stones were from 1 to 1½ inches in diameter. Crop damage was estimated at $1,000. Driving rain also accompanied the storm and was blown into homes causing much damage.

Time used on this tabulation is Central Standard Time, unless otherwise indicated.

Daily Temperatures for September 1947

Stations		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	..	Mean
Northern Division																																	
Brunswick /	Maximum..	94	95	96	100	90	94	97	100	99	96	76	72	85	82	73	83	90	94	94	98	71	64	71	82	70	69	68	82	66	61	..	83.7
	Minimum ..	76	61	60	67	68	64	64	69	71	71	70	67	56	56	54	52	54	56	62	67	61	49	43	44	49	51	49	50	56	43	..	58.7
Chillicothe 2 mi ESE (C)	Maximum..	95	96	99	99	91	93	99	103	99	96	77	70	86	79	73	83	92	94	94	86	75	60	73	84	69	68	67	82	67	59	..	83.6
	Minimum ..	67	56	68	73	65	61	65	68	69	68	67	57	53	52	46	48	52	60	63	65	57	45	41	49	48	46	49	57	45	41	..	56.7
Columbia	Maximum..	96	96	95	102	89	94	100	103	97	97	88	77	87	90	75	82	91	93	93	88	76	62	72	83	72	69	70	79	67	60	..	84.8
	Minimum ..	72	60	66	73	69	66	71	73	76	73	68	64	56	63	53	52	57	66	67	71	56	47	43	53	52	54	51	56	50	43	..	60.7
Fayette	Maximum..	96	96	96	100	93	91	98	102	97	97	89	74	86	82	79	81	90	92	93	97	79	71	73	82	80	69	70	78	73	61	..	85.5
	Minimum ..	75	56	64	67	66	62	68	69	71	69	68	65	53	64	50	46	54	61	63	62	54	46	39	46	51	51	47	55	54	47	..	58.1
Grant City	Maximum..	89	88	98	96	96	94	96	100	97	98	85	75	85	76	71	85	90	94	92	87	76	70	77	80	69	68	67	83	71	58	..	83.7
	Minimum ..	66	62	69	72	76	60	66	70	70	73	63	61	53	61	43	52	58	66	65	65	58	39	40	50	41	40	50	56	50	35	..	57.7
Hannibal	Maximum..	93	94	94	100	86	91	93	98	95	96	87	80	88	91	75	84	84	94	92	88	73	60	72	82	68	66	65	78	66	58	..	83.1
	Minimum ..	69	63	69	75	69	66	67	71	71	69	67	62	56	58	50	51	52	68	66	66	55	44	40	49	48	45	42	54	48	39	..	58.3
Kansas City Airport	Maximum..	93	99	109	100	92	96	101	102	99	98	80	72	92	76	75	84	93	95	93	79	76	62	77	84	69	68	76	82	69	60	..	85.0
	Minimum ..	74	64	78	77	71	65	71	74	78	70	68	60	57	56	53	59	66	71	72	66	61	48	50	58	50	51	52	64	50	43	..	62.6
Kirksville	Maximum..	95	97	95	101	93	94	97	103	100	95	91	74	86	81	74	84	91	92	93	88	74	69	74	84	69	68	67	78	70	59	..	84.5
	Minimum ..	68	61	67	72	66	62	67	69	70	68	68	63	54	62	47	49	51	61	63	65	54	43	40	50	48	43	41	51	53	37	..	57.1
Lathrop	Maximum..	94	95	103	99	92	93	98	101	98	97	87	70	87	80	74	82	90	93	92	83	77	62	75	83	71	72	74	84	75	59	..	84.7
	Minimum ..	70	59	59	70	65	62	65	71	72	73	67	57	53	63	43	53	64	67	65	65	58	42	42	55	46	46	49	58	52	38	..	58.3
Louisiana	Maximum..	96	96	97	101	96	94	96	102	92	95	92	81	87	93	76	82	87	94	94	92	84	72	73	73	72	70	69	83	73	61	..	85.8
	Minimum ..	72	56	59	71	70	58	61	60	68	68	69	67	57	65	48	40	51	61	60	64	57	50	35	42	50	45	40	52	56	41	..	56.4
Macon /	Maximum..	92	94	94	97	88	91	95	100	98	94	76	72	84	82	73	82	90	99	94	88	75	60	72	83	67	67	69	77	64	59	..	82.5
	Minimum ..	71	64	65	68	65	61	64	68	69	69	67	64	54	55	49	50	49	52	63	65	54	44	41	44	49	44	45	46	52	40	..	56.4
Maryville	Maximum..	88	93	94	91	88	91	93	93	94	94	80	73	82	78	71	81	88	89	89	80	75	65	75	79	66	66	70	83	70	56	..	81.2
	Minimum ..	64	60	63	71	60	60	66	68	68	70	65	60	50	60	42	51	59	68	62	64	55	39	38	49	41	43	50	57	48	37	..	56.3
Mexico /	Maximum..	94	93	96	102	88	94	98	103	96	97	90	76	88	90	73	83	91	94	96	93	73	60	73	82	71	69	70	80	72	60	..	84.8
	Minimum ..	75	60	64	68	64	61	64	69	71	70	72	68	56	58	49	48	50	50	67	67	60	46	40	44	50	48	43	45	54	40	..	57.4
Moberly /.... 3½ mi. NE	Maximum..	94	94	95	100	89	95	98	97	97	96	82	74	86	86	75	82	91	93	94	90	75	60	72	82	69	67	74	77	65	59	..	83.6
	Minimum ..	74	58	68	70	66	61	62	68	67	71	68	65	55	64	49	55	54	66	65	65	55	46	42	50	50	48	45	52	53	42	..	58.5
Oregon	Maximum..	91	95	108	96	91	94	94	98	95	96	79	75	88	83	75	83	92	93	92	86	77	67	79	82	70	70	75	85	69	59	..	84.6
	Minimum ..	69	63	74	74	64	64	68	73	75	72	66	59	54	55	44	56	65	69	67	66	57	40	44	57	43	45	51	61	51	38	..	59.5
St. Charles	Maximum..	99	96	92	96	94	91	95	101	94	97	94	85	83	94	81	80	86	92	91	91	85	64	70	78	75	70	69	79	71	60	..	85.1
	Minimum ..	75	62	64	73	71	65	68	72	72	70	69	68	68	64	54	50	53	67	65	68	60	52	41	46	66	47	44	49	59	43	..	60.8
St. Joseph Airport	Maximum..	92	96	107	96	92	96	98	100	98	98	77	71	90	73	76	84	94	95	94	83	77	64	77	81	71	71	75	85	70	61	..	84.7
	Minimum ..	65	59	74	76	66	61	68	70	71	69	66	59	55	52	47	57	65	69	65	66	60	44	45	53	47	48	53	61	45	40	..	59.2
Trenton	Maximum..	93	97	98	99	92	95	95	103	99	94	89	77	86	80	74	84	91	94	94	88	79	75	75	82	74	68	68	83	78	68	..	85.7
	Minimum ..	69	60	68	76	67	61	68	72	73	70	68	65	52	66	48	50	55	63	65	65	60	43	41	50	47	46	50	56	53	40	..	58.9
Unionville /	Maximum..	90	95	95	97	91	91	91	102	99	92	77	72	83	77	72	83	89	93	92	86	75	59	74	82	67	65	67	80	67	57	..	82.0
	Minimum ..	65	61	64	65	64	63	64	69	68	66	66	65	53	56	45	46	52	55	63	63	54	40	38	43	44	41	42	47	51	36	..	55.0
Warrenton	Maximum..	100	96	96	105	96	92	96	104	97	96	94	80	87	94	75	80	88	92	91	90	79	67	72	81	70	68	69	80	72	60	..	85.6
	Minimum ..	71	56	63	71	69	59	65	65	70	68	67	65	55	62	48	44	50	65	62	65	57	50	37	44	49	46	41	49	57	39	..	57.0
Keokuk, Iowa	Maximum..	91	93	94	98	90	93	91	95	94	92	81	75	84	82	72	82	87	91	92	89	73	58	70	79	65	62	64	74	62	54	..	80.9
	Minimum ..	70	66	72	74	72	69	70	73	72	70	67	64	59	57	51	53	55	69	68	68	55	46	45	53	49	44	42	54	45	38	..	59.7
Southwestern Division																																	
Clinton	Maximum..	101	98	105	106	97	100	106	105	100	99	77	72	87	88	77	84	93	95	94	78	78	64	75	85	72	67	78	80	70	64	..	86.5
	Minimum ..	71	60	68	75	67	63	65	70	70	70	67	59	54	58	52	52	58	62	64	69	58	44	41	49	55	56	56	60	51	45	..	59.6
Eldon	Maximum..	98	95	97	105	101	95	103	102	94	97	90	78	86	82	74	85	88	91	90	82	79	67	72	81	76	67	71	78	74	62	..	85.3
	Minimum ..	76	60	66	77	68	64	67	70	70	69	68	65	56	62	50	48	53	63	64	68	56	50	39	46	53	54	49	53	59	42	..	59.5
Harrisonville /	Maximum..	100	98	108	104	95	98	102	103	99	98	75	69	89	82	72	83	92	94	93	78	78	63	75	89	71	68	76	80	71	62	..	85.4
	Minimum ..	77	63	67	72	66	67	71	73	69	72	69	59	52	55	49	50	54	63	66	68	59	46	44	46	52	52	55	54	57	43	..	59.7
Jefferson City	Maximum..	97	95	94	101	93	94	102	104	94	98	91	79	87	93	73	82	90	92	92	86	82	66	73	82	73	70	72	78	71	61	..	85.5
	Minimum ..	77	57	64	73	68	61	66	63	69	70	74	66	55	65	51	43	48	63	61	66	55	50	38	43	53	54	49	51	58	43	..	58.5
Joplin Airport	Maximum..	99	101	105	105	94	102	105	101	100	95	81	81	86	91	78	85	94	95	93	76	77	64	78	84	75	77	82	84	80	69	..	87.9
	Minimum ..	70	64	73	76	69	65	75	74	71	78	67	62	57	64	53	53	63	65	66	71	58	48	44	51	59	56	57	57	53	46	..	62.2
Lamar /	Maximum..	95	95	105	104	91	99	105	100	95	96	75	71	86	90	76	85	94	94	90	77	76	63	75	83	76	74	80	83	73	66	..	85.7
	Minimum ..	72	58	59	70	66	60	59	70	68	69	71	61	54	55	51	50	52	61	62	64	63	53	41	42	47	54	54	54	58	45	..	58.1
Lebanon /	Maximum..	100	97	97	105	95	99	106	102	95	98	92	79	87	93	76	82	90	92	94	82	73	63	76	84	80	70	75	81	72	65	..	86.7
	Minimum ..	75	55	59	71	67	60	62	73	70	68	71	64	57	58	50	50	54	57	60	62	61	50	38	40	50	54	50	52	53	43	..	57.8
Lexington /	Maximum..	95	99	106	101	93	102	101	103	100	88	84	76	90	90	74	83	92	94	93	80	75	60	75	84	..	..	..	..	..	..	..	^{f}89.1
	Minimum ..	75	64	70	68	68	68	68	72	72	74	70	70	60	56	55	54	60	62	65	69	59	46	45	47	51	..	..	..	..	..	..	^{e}62.7
Marshall	Maximum..	94	94	99	100	98	92	97	100	99	96	92	77	85	85	72	81	90	93	92	87	78	68	71	82	80	69	69	77	74	62	..	85.1
	Minimum ..	72	62	68	71	66	67	68	69	72	69	67	64	54	67	51	52	53	61	67	66	53	46	42	48	66	51	49	56	54	42	..	59.8
Mountain Grove	Maximum..	100	96	95	104	97	97	103	101	89	96	95	77	88	93	86	79	86	89	91	84	74	70	74	82	81	72	72	78	74	69	..	86.4
	Minimum ..	73	60	66	70	69	63	71	75	69	68	69	64	54	58	52	50	54	65	66	69	56	51	38	47	55	56	51	50	58	45	..	59.7
Neosho	Maximum..	100	99	104	104	101	101	105	101	98	95	92	75	87	93	78	88	93	94	92	85	76	74	76	85	83	81	82	84	80	73	..	89.3
	Minimum ..	67	56	64	75	62	55	65	70	67	75	70	63	54	65	50	47	58	59	56	72	61	53	41	45	55	57	56	55	60	48	..	59.4
Nevada	Maximum..	102	100	106	105	97	102	108	103	99	98	87	74	86	87	78	86	95	94	94	81	78	75	79	86	75	74	82	84	80	67	..	88.7
	Minimum ..	74	58	68	75	65	61	67	71	69	73	68	60	54	66	50	44	60	62	65	69	60	52	42	48	57	55	56	59	62	46	..	60.5
Sedalia	Maximum..	97	95	101	102	98	93	100	102	98	96	92	72	85	86	73	81	90	92	92	88	77	72	72	82	78	68	70	78	77	62	..	85.6
	Minimum ..	77	60	72	80	65	67	68	74	73	74	65	64	54	67	50	52	59	64	68	68	61	48	42	52	54	55	53	58	58	44	..	61.6
Springfield....4 mi. NW	Maximum..	96	95	100	104	91	97	104	98	94	95	88	74	84	91	71	77	86	88	88	77	72	61	71	83	81	72	72	82	73	64	..	84.3
	Minimum ..	71	62	67	71	68	64	70	71	69	72	65	59	54	58	50	50	57	61	65	70	56	47	42	48	58	57	54	53	50	45	..	59.5
Warrensburg	Maximum..	98	96	102	104	93	98	104	103	100	97	92	70	87	85	76	84	94	95	94	87	77	75	75	84	77	69	74	78	75	65	..	86.9
	Minimum ..	78	65	74	78	68	69	68	74	74	74	68	62	55	67	52	55	61	67	68	67	57	48	45	53	52	53	54	60	58	42	..	62.2
Southeastern Division																																	
Arcadia /	Maximum..	100	98	89	102	98	98	102	105	87	97	95	83	87	94	78	80	88	90	90	86	73	66	76	83	80	*69*	73	80	70	66	..	86.1
	Minimum ..	68	55	58	67	69	59	59	63	67	68	69	67	55	54	55	42	42	45	58	58	65	53	34	35	37	47	38	38	44	45	..	53.8
Birch Tree.... ½ mile E	Maximum..	101	95	92	103	101	96	104	103	95	98	97	80	86	93	88	80	88	90	88	83	77	67	72	80	82	74	74	78	74	65	..	86.8
	Minimum ..	69	55	55	71	65	58	65	65	66	66	72	66	51	70	60	39	41	61	65	69	59	49	35	37	48	56	48	44	56	44	..	56.8
Caruthersville	Maximum..	99	93	94	96	101	95	100	100	92	94	91	89	84	93	90	80	90	91	90	89	87	69	69	76	81	76	76	75	71	63	..	86.5
	Minimum ..	72	68	65	69	74	73	73	75	72	71	75	72	62	59	60	54	60	70	70	73	65	57	47	48	54	59	51	58	55	45	..	63.5
Crystal City	Maximum..	98	92	90	102	95	91	95	100	91	96	95	85	86	93	91	81	88	91	90	89	83	64	70	78	76	73	71	80	75	68	..	85.9
	Minimum ..	72	58	60	73	69	62	65	70	68	70	70	67	56	61	55	44	46	62	60	67	60	53	35	39	52	51	43	42	58	43	..	57.7
Doniphan	Maximum..	104	95	95	105	102	98	105	106	91	100	97	87	91	96	86	83	93	94	94	89	83	69	73	84	84	74	77	81	70	66	..	89.1
	Minimum ..	68	57	56	62	72	62	66	68	71	67	74	67	54	53	60	41	42	59	60	73	62	48	37	47	44	56	48	43	51	48	..	57.2
Farmington	Maximum..	97	92	99	100	92	94	98	103	85	95	94	80	85	92	83	79	87	90	91	89	79	61	70	78	74	69	70	78	69	60	..	84.4
	Minimum ..	70	57	62	65	67	60	64	68	69	67	67	65	55	54	53	41	49	60	60	64	57	49	34	35	47	48	37	43	58	40	..	55.5
Jackson	Maximum..	100	95	91	97	99	96	99	100	95	96	94	90	87	92	89	81	90	93	92	89	83	67	72	80	80	74	76	76	71	64	..	86.9
	Minimum ..	71	60	60	69	72	62	65	70	72	71	74	69	62	56	55	44	47	63	62	72	62	54	39	40	49	52	42	44	53	45	..	58.5
Poplar Bluff	Maximum..	102	94	94	101	101	98	102	102	90	97	94	87	88	92	79	82	90	95	94	88	83	69	74	82	84	73	77	77	68	66	..	87.4
	Minimum ..	68	58	57	62	73	66	68	70	71	68	73	69	56	52	60	43	45	61	61	70	63	54	41	42	49	55	46	45	51	50	..	58.2
Rolla /	Maximum..	100	95	94	104	93	95	103	104	90	98	94	81	82	92	72	76	82	90	89	85	64	58	66	73	67	57	72	79	67	58	..	82.7
	Minimum ..	75	61	69	60	58	64	67	74	72	70	75	65	54	64	51	48	52	63	64	67	62	50	39	46	51	51	46	50	61	42	..	59.0
St. Louis	Maximum..	96	94	89	93	88	92	94	97	84	95	94	83	85	92	73	78	85	91	89	88	80	63	69	79	69	70	67	77	67	59	..	82.7
	Minimum ..	75	69	72	78	73	72	72	73	73	71	69	66	61	61	58	54	58	69	71	72	59	50	46	52	52	48	45	50	52	43	..	62.1
Salem /	Maximum..	99	95	89	104	92	95	101	104	86	97	95	79	88	94	73	80	87	90	90	80	70	62	72	80	76	67	73	81	73	65	..	84.6
	Minimum ..	71	53	59	66	66	60	65	71	70	68	72	66	54	59	53	45	50	55	60	60	70	51	36	39	45	50	47	48	51	43	..	56.8
Sikeston /	Maximum..	100	92	95	99	100	96	101	103	79	95	94	85	86	93	76	81	91	92	92	89	83	68	71	78	81	74	75	77	63	64	..	85.8
	Minimum ..	70	61	62	67	75	65	69	73	70	70	74	69	61	56	58	46	49	61	65	69	76	54	40	42	50	53	44	47	54	47	..	59.9
Union ....1½ mi. SE	Maximum..	100	98	92	109	97	95	98	107	93	98	96	84	90	96	78	80	89	93	92	92	80	66	71	81	72	70	70	81	72	61	..	86.7
	Minimum ..	72	55	57	72	65	59	61	68	68	65	68	67	55	59	51	41	44	59	59	63	58	51	35	39	52	51	38	43	58	42	..	55.8
West Plains	Maximum..	100	94	96	105	99	99	104	102	89	98	96	78	87	94	76	81	88	92	88	80	73	66	72	81	82	73	74	80	71	64	..	86.1
	Minimum ..	69	62	58	65	67	62	66	68	68	67	69	59	54	55	50	47	47	60	61	73	56	46	39	42	50	57	50	46	55	45	..	57.1
Cairo, Ill.	Maximum..	98	90	91	93	96	94	98	98	78	92	91	86	85	87	78	79	87	89	88	87	83	66	70	77	79	72	72	73	63	61	..	83.4
	Minimum ..	73	71	68	72	74	70	71	75	72	74	73	72	67	62	58	53	59	71	68	74	58	49	45	47	56	53	48	53	56	46	..	62.9

/ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs. ^{a}, ^{b}, ^{c}, etc., number of days missing, for example, ^{b} indicates two days missing. Italics data interpolated. § Partly interpolated. (C) Airport.


MISSOURI
SCALE OF MILES
10 5 0 10 20 30 40 50
LEGEND
● Section Center.
● Weather Bureau Office.
○ Substation (Temperature and Precipitation).
□ Substation (Precipitation).
△ Substation (Evaporation, Temperature, and Precipitation.)
NOTE.—Dash (—) above station symbol indicates availability of hourly temperature data; below symbol, autographic precipitation records.
MISSISSIPPI RIVER
MISSOURI RIVER
C.E.J. 5-1-44

WBO, St. Louis, 2-16-48—1130.

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CLIMATOLOGICAL DATA

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VOL. LI OCTOBER 1947 No. 10

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GENERAL SUMMARY

October was an unusually warm month, over the whole State, and highly favorable for curing and harvesting of all crops. The only damaging frosts, or freezing temperatures, reported in the State during the month, were in the extreme northwestern corner, and practically all crops reached maturity, despite the fact many of these were planted unusually late.

It was the warmest October in the past 60 years and the State average temperature of 65.2° was only 4.1° lower than the normal for September. Daily temperatures averaged warmer than normal, at most stations, nearly every day during the month, except the first day or two and also for a day or two during the last week, when the daily averages were below normal, at some stations. The period from the 6th to 25th was particularly warm, averaging from 10° to 20° degrees warmer than normal, as a rule. Maximum temperatures during the month occurred on the 5th, 7th, 13th and 14th, when afternoon readings in the low to middle 90's were registered. The 1st and 29th were generally the coolest days, when minimum temperatures for the month were in the 30's, except at Tarkio where a low of 29° was recorded on the latter date. The Southwestern Division had the highest monthly average temperature of 66.3°, or 8.0° warmer than normal. The averages, with departures from normal, for the Southeastern and Northern divisions were 65.3°, +6.7° and 63.9°, +7.7°, respectively; for the State as a whole, 65.2°, +7.3°.

Precipitation during October was all in the form of rain, no snow being recorded anywhere in the State. The distribution over the State was rather irregular, ranging from a total of 7.87 inches at Vichy to only 0.83 inch at Granby. The greater portion of the month's rainfall occurred during the last week, as a rule, and it was this period of general and copious rainfall that finally broke up the severe drought that had prevailed over most of the State since the latter part of July. Prior to the 23d the precipitation, during October, was mostly from scattered, local showers, occurring principally from the 1st to 4th and on the 17-18th. Although the month averaged 0.87 inch above normal precipitation, it was considered a dry month from an agricultural viewpoint. Average precipitation by divisions, with departures from normal, were as follows: Northern, 3.56 inches, +0.88 inch; Southwestern, 3.08 inches, —0.06 inch; Southeastern, 4.86 inches, +1.81 inches; for the State, 3.83 inches, +0.87 inch.

No floods occurred in any of the rivers of the State and daily river stages were, generally, quite low for the time of year, throughout the month.

Sunshine averaged considerably in excess of normal during the month, particularly the first three weeks, and the average number of clear days, for the State as a whole, was 18.

Only one damaging hail storm was reported during the month. (See storm table for details). However, there was some minor damage from lightning, that occurred in connection with local thunderstorms at Amity on the 23d; at St. Louis on the 24th; at Rolla on the 25th and at Boonville on the 30th.

(Continued on page 75)

1948

PRESSURE, WIND, HUMIDITY, AND SUNSHINE

Stations	Sea-level pressure, extremes-inches: Highest	Date	Lowest	Date	Wind: Average hourly velocity	Maximum velocity ¶	Direction of maximum	Date	Relative humidity: 12:30 a. m.	6:30 a. m.	12:30 p. m.	6:30 p. m.	Percentage of sunshine	Degree days
Columbia	30.41*	1	29.75*	17	5.6	18	se.	30	77*	84*	57*	64*	68	71
K. C. Airport	30.34	1	29.73	16	9.2	33	w.	3	71	80	52	59	73	76
St. Joseph Ap't	30.33	1	29.73	16	6.3	26	s.	3	79	86	59	68	56	118
St. Louis	30.49*	1	29.77*	17	9.2	29	s.	3	80*	81	57	65*	71	77
Springfield	30.34	1	29.76	16	10.1	25	s.	3	80	89	54	64	78	63
Cairo, Ill.	30.44	1	29.77	16	5.7	26	nw.	4	..	92	61	..	80	48
....	.....	..	.....	..	....	..	......	..	..	..	..	..	..	..

* Data for Airport station. ¶ For 5-minute period.

COMPARATIVE DATA FOR OCTOBER

Year	Temperature: Average for State	Highest	Lowest	Precipitation: Average for State	Average, Northern Division	Average, Southwestern Division	Average, Southeastern Division	Snowfall, Average for State	Number of days: Precip. .01 inch or more	Clear	Partly cloudy	Cloudy
1888	53.6	89	24	2.72	2.02	3.32	2.82	....	6	..	..	..
1889	53.8	91	22	2.32	2.54	2.05	2.38	....	5	..	..	..
1890	54.8	91	20	2.35	3.01	2.70	1.33	....	7	..	..	..
1891	55.7	92	20	1.05	1.31	1.09	0.76	....	5	..	..	..
1892	57.5	95	16	2.40	2.04	2.78	2.39	0	5	16	7	8
1893	56.7	95	16	1.12	0.48	0.91	1.97	....	3	20	8	3
1894	57.6	94	18	1.82	2.09	1.26	2.12	T.	6	17	8	6
1895	51.2	89	14	0.42	0.26	0.34	0.66	T.	2	21	6	4
1896	54.1	90	19	2.48	2.70	2.43	2.32	0	5	19	6	6
1897	62.5	99	23	0.74	0.55	0.81	0.87	0	3	22	6	3
1898	53.5	95	19	4.35	4.26	4.18	4.61	1.4	8	11	7	13
1899	62.4	100	24	3.16	1.98	3.58	3.93	0	5	20	6	5
1900	62.4	92	25	3.96	5.23	3.78	2.86	0	7	17	7	7
1901	60.1	96	24	1.69	1.55	1.63	1.89	0	6	18	8	5
1902	59.5	88	23	2.41	2.90	2.30	2.02	0	5	21	5	5
1903	57.3	90	19	3.06	2.19	3.76	3.22	0	6	19	6	6
1904	57.6	90	19	0.88	0.93	0.81	0.90	0	3	20	7	4
1905	55.1	90	20	4.85	3.67	5.78	5.09	0.3	10	15	7	9
1906	56.3	94	17	1.06	0.66	0.89	1.62	0	5	17	6	8
1907	56.7	94	18	2.93	2.02	3.62	3.14	0	7	17	6	8
1908	56.3	92	21	2.39	3.60	3.11	0.45	0.8	5	18	6	7
1909	57.2	96	20	2.72	3.45	2.99	1.71	T.	6	19	5	7
1910	59.4	94	15	2.97	0.97	1.76	6.18	0	5	22	4	5
1911	56.9	96	25	3.16	3.81	3.31	2.36	0.2	8	11	7	13
1912	59.1	97	21	3.78	3.87	4.29	3.17	0.7	6	20	5	6
1913	54.7	93	11	4.65	3.68	3.92	6.36	3.3	9	15	6	10
1914	59.2	88	19	4.59	4.32	4.28	5.17	0	7	14	6	11
1915	59.8	95	22	1.22	0.77	1.61	1.29	0	3	23	5	3
1916	58.0	95	20	2.12	2.53	2.03	1.79	0.3	6	18	5	8
1917	49.8	93	12	1.15	1.25	0.77	1.43	0.2	6	16	8	7
1918	60.6	95	28	3.45	3.02	3.51	3.82	0	7	14	6	11
1919	58.4	98	17	7.07	3.49	8.48	9.23	0	11	10	7	14
1920	61.3	93	18	3.14	1.94	3.76	3.73	T	7	17	6	8
1921	57.9	92	24	2.15	2.78	2.20	1.47	0	5	21	5	5
1922	59.9	97	18	2.04	2.00	1.84	2.28	0	5	20	5	6
1923	53.0	89	17	3.55	2.40	4.40	3.84	0.1	9	15	5	11
1924	61.8	92	21	1.22	1.54	1.59	0.52	0	4	22	5	4
1925	48.6	92	− 3	4.98	3.70	4.12	7.12	2.4	10	8	8	15
1926	57.3	93	21	4.73	4.43	4.98	4.77	0	9	14	6	11
1927	60.9	93	26	4.59	5.49	5.33	2.96	0	5	22	5	4
1928	60.9	94	22	3.82	3.85	2.91	4.71	0	8	15	8	8
1929	57.2	91	23	5.36	6.30	5.97	3.80	T.	10	15	6	10
1930	55.3	92	11	3.09	2.43	3.68	3.17	T.	6	16	6	9
1931	61.7	95	27	3.37	3.89	3.99	2.23	0	8	15	7	9
1932	55.7	90	22	3.54	2.79	3.19	4.65	0	5	18	5	8
1933	56.4	86	23	2.90	1.68	3.78	3.25	0	7	17	8	6
1934	61.1	90	24	2.50	2.22	3.02	2.25	0	4	22	5	4
1935	57.1	90	21	3.47	2.04	4.42	3.94	T.	10	12	7	12
1936	56.7	89	20	3.55	2.45	3.76	4.43	T.	8	16	6	9
1937	56.3	98	15	2.44	1.57	1.89	3.86	T	7	16	6	9
1938	63.9	99	19	1.23	1.11	1.50	1.09	0	3	24	4	3
1939	61.1	100	19	1.89	1.39	1.92	2.35	0	6	21	7	3
1940	63.0	94	28	1.73	2.31	1.65	1.23	0	6	20	6	5
1941	61.6	92	20	10.14	10.41	11.57	8.45	T.	17	8	8	15
1942	58.0	90	13	2.97	1.83	3.71	3.36	0	6	17	6	8
1943	56.3	90	19	3.23	2.56	4.27	2.85	0	7	18	6	7
1944	59.6	92	25	1.68	1.73	2.34	0.96	0	4	22	5	4
1945	56.8	85	23	2.18	1.19	2.53	2.83	0	6	17	7	7
1946	61.1	92	24	3.02	4.09	2.80	2.18	0	6	16	7	8
1947	65.2	94	29	3.83	3.56	3.08	4.86	0	7	18	6	7
....	....	..	....	....	....	....	....	....	..	..	..	..
Period	57.9	100	− 3	2.96	2.68	3.14	3.05	0.2	6	17	6	8

NAT. HIST.

Climatological Data for October 1947

Stations	Counties	Elevation, feet	Temperature, in degrees Fahr.							Precipitation, in inches						Number of days				Prevailing direction of wind	Observers
			Length of record, years	Mean	Departure from the normal	Highest	Date	Lowest	Date	Length of record, years	Total	Departure from the normal	Greatest in 24 hours ‡	Date	Total snowfall, unmelted	With precip., .01 inch or more	Clear	Partly cloudy	Cloudy		
Northern Division																					
Albany	Gentry	930	6	63.8	......	92	6	33	19	18	3.89	+1.10	0.93	8	0	13	16	8	7	s.	William J. Butler
Amity	DeKalb	1,007	1	63.7	......	89	7	34	29	12	3.20	+1.07	1.20	3-4	0	9	17	4	10	sw.	O. M. Colhour
Bethany	Harrison	916	52	63.2	+ 8.4	89	6	34	19	54	3.26	+0.34	1.21	3-4	0	7	19	4	8	se.	B. A. McGregor
Brookfield	Linn	767	6	65.1	......	91	7	43	20	6	2.96	......	0.87	24	0	7	21	3	7	s.	G. F. Breen
Brunswick	Chariton	652	66	64.4	+ 9.1	91	3†	44	1†	68	3.56	+0.56	0.93	24-25	0	8	20	3	8	ne.	O. K. Benecke
Canton, Lock & Dam 20	Lewis	488	9	63.8	+ 5.0	86	14	45	1†	17	2.66	+0.40	0.73	30-31	0	8	18	5	8	s.	Lockmaster
Carrollton	Carroll	754	1	63.5	......	89	23	37	29	1	3.84	......	1.15	23	0	8	16	8	7	s.	Harold E. Finley
Chillicothe 2 mi ESE(C)	Livingston	771	38	63.4	+ 8.4	89	7	38	29	41	2.78	−0.36	1.27	23-24	0	9	13	4	14	se.	Civil Aeronautics Adm.
Columbia	Boone	740	57	66.2	+ 9.3	87	16	46	29	57	3.07	+0.46	1.27	24-25	0	7	15	7	9	s.	U. S. Weather Bureau
Conception	Nodaway	1,108	58	64.0	+ 8.6	89	5	35	29	63	2.33	−0.55	0.76	3-4	0	6	13	11	7	se.	Fr. Adelhelm Hess
Edgerton	Platte	856	27	63.4	+ 7.1	91	7	35	19	44	4.47	+1.85	2.50	23	0	7	10	11	10	sw.	Leroy H. Mindrup
Elsberry	Lincoln	449	16	62.8	+ 5.3	87	12†	36	10†	16	4.28	+1.77	1.48	26-27	0	8	20	4	7	s.	Soil Conservation Service
Fayette	Howard	760	67	64.3	+ 7.9	87	7	41	20	64	2.51	−0.38	0.78	30-31	0	6	17	7	7	s.	Irvin E. Schnell
Fulton	Callaway	818	59	63.6	+ 6.2	86	14	43	1	55	3.41	−0.01	1.82	24-25	0	6	24	3	4	s.	Frank E. Hillgartner
Grant City	Worth	1,134	43	63.4	+ 8.3	90	6	33	29	55	3.73	+0.69	1.19	3	0	9	18	4	9	s.	J. Homer Korn
Hannibal	Marion	759	55	64.0	+ 8.0	88	14	43	1	63	3.78	+1.39	1.16	31	0	9	20	4	7	s	Hannibal Water Dept.
Kansas City Airport	Jackson	741	58	68.0	+10.3	91	5	40	29	58	5.25	+2.56	2.51	30	0	6	16	5	10	sw.	U. S. Weather Bureau
Kansas City Univ.	Jackson	908	9	66.6	+ 5.4	91	5	35	29	9	4.32	+1.38	1.26	30	0	7	17	6	8	nw.	University of Kansas City
Kidder	Caldwell	1,020	55	63.2	+ 7.4	87	6†	34	29	59	3.59	+0.52	1.40	23	0	6	19	2	10	s.	Mrs. Geraldine Terry
Kirksville	Adair	969	58	63.4	+ 8.7	89	7	42	1	65	4.61	+1.45	0.90	24	0	8	18	4	9	sw.	Dow Jones
Kirksville Airport	Adair	970	8	62.4	......	88	7	42	1	8	3.86	......	1.14	23-24	0	12	14	8	9	s.	Civil Aeronautics Adm.
Lathrop	Clinton	1,071	0	64 9	......	89	6	35	29	0	3.75	......	1.08	24	0	8	22	3	6	w.	E. L. Fisher
Louisiana	Pike	469	53	63.5	+ 7.3	90	14	37	10†	66	4.30	+1.02	1.45	31	0	8	21	4	6	s.	Stark Bro's Nurseries
Macon	Macon	875	48	62.9	+ 6.6	88	7	41	2	54	3.34	+0.45	0.90	3-4	0	9	11	11	9	se.	John W. Atwell
Maryville	Nodaway	1,169	57	61.9	+ 8.4	89	6	35	29	53	3.46	+0.49	1.06	3	0	11	16	2	13	s.	R. B. Montomery
Memphis	Scotland	787	8	62.6	......	93	7	36	1	17	3.33	+1.40	0.68	24-25	0	9	12	10	9	sw.	John W. Alexander
Mexico	Audrain	800	58	64.2	+ 7.9	88	14	42	1†	69	2 54	−0.53	1.18	31	0	6	18	5	8	sw.	Wendell W. Palmer
Moberly .....3½ mi. NE	Randolph	860	10	63.9	+ 7.2	90	14	43	30	10	2.50	−0.85	0.95	30-31	0	7	18	6	7	s.	Robert A. Berg
New Florence. 1 mi SE	Montgomery	885	4	64.1	......	86	14	41	1	5	3.64	......	1.27	24-25	0	8	16	5	10	s.	U. S. Weather Bureau
Oregon	Holt	1,048	91	64.2	+ 9.1	89	5	39	29	91	4.55	+1.80	2.53	8	0	7	15	5	11	s.	James M. Curry
Polo	Caldwell	1,000	1	63.7	......	89	7	36	29	1	2.88	......	1.17	23-24	0	6	19	8	4	s.	F. B. Albright
St. Charles	St. Charles	520	59	65.0	+ 6.8	87	14†	45	10	69	3.64	+0.46	1.13	25-26	0	8	16^a	4^a	10^a	se.	Mrs. Myrtle Bregel
St. Joseph Airport	Buchanan	957	37	64.6	+ 8.6	90	6	35	29	75	4.45	+1.56	1 57	23	0	7	13	6	12	s.	U. S. Weather Bureau
Salisbury	Chariton	723	1	64.6	......	88	15	42	30	1	3.28	......	0.87	3-4	0	8	19	4	8	s.	David H. Robertson
Saverton, Lock No. 22	Ralls	472	9	63.8§	......	89	14	43	1	9	·2.96	−0.47	0.61	31-1	0	9	22	4	5	sw.	Lockmaster
Shelbina	Shelby	779	6	63.7	......	87	14†	41	1	54	3.96	+1.35	1.48	30-31	0	6	17	4	10	sw.	Guyman Hatcher
Steffenville	Lewis	650	49	63.3	+ 5.9	87	14	42	10†	54	4.28	+1.55	1.21	30-31	0	8	20	2	9	se.	Mrs. Fannie V. Gross
Tarkio	Atchison	916	44	62.6	+ 7.8	91	6	29	29	53	1.73	−1.08	0.46	23-24	0	8	11	6	14	s.	Civil Aeronautics Adm.
Trenton	Grundy	822	51	64.4	+ 8.5	90	7	42	29	52	3.85	+0.72	0.99	3	0	8	17	7	7	s.	W. H. Estes
Unionville	Putnam	1,062	54	60.8	+ 5.6	88	8	35	1	54	3.69	+0.56	0.92	3-4	0	9	16	5	10	s.	George D. Choate
Vandalia	Audrain	766	3	63.7	......	88	14	41	20	8	3.38	......	0.88	25	0	8	22	7	2	s.	Mrs. Naomi K. Stoutz
Warrenton	Warren	816	65	64.6	+ 8.6	89	3†	39	10	57	4.06	+0.62	1.22	24-25	0	7	19	9	3	e.	W. T. Zimmerman
Keokuk, Iowa	Lee, Ia.	574	75	65.0	+ 9 6	88	15	44	1	75	3 11	+0.85	1.49	31-1	0	9	18	6	7	se.	U. S. Weather Bureau
Division means	**and extremes**	.....	..	**63.9**	+ 7.7	**93**	7	**29**	**29**	..	**3.56**	**+0.88**	**2 53**	**8**	**0**	8	**17**	**6**	**8**	**s.**	
Southwestern Division																					
Anderson ...1½ mi SW	McDonald	1,000	43	64.0	+ 5.3	94^a	5	34	28†	48	1.63	−2.26	0.94	31	0	4	26	1	4	sw.	Samuel G. Chamberlain
Appleton City. 2 mi. W	Bates	813	52	67.0	+ 8.1	92	5	38	29	55	3.05	+0.09	1.13	23-24	0	9	20	6	5	sw.	F. Paul Eye
Bolivar	Polk	1,071	44	67.8	+ 9.2	89	12†	40	29	52	2.87	−0.38	1.70	24-25	0	5	19	8	4	sw.	Southwest Baptist College
Boonville	Cooper	650	9	64.8	+ 5.4	86	6†	45	1†	70	3.98	+0.76	1.56	24-25	0	6	20	5	6	sw.	Boonville Water Dept.
Butler	Bates	865	1	65.8	......	90	5	40	29	6	3.99	......	1.97	23-24	0	8	14	11	6	se.	Harley W. Johnson
Camdenton	Pulaski	940	1	67.1	......	88	13†	39	29	1	4 48	......	1.67	30-31	0	5	20	4	7	sw.	Mo. Conservation Com.
Carthage	Jasper	962	13	67.5	......	92	5	39	29	23	1.81	......	0.93	25	0	5	17	13	1	sw.	Carthage W. and E. Plant
Clinton	Henry	786	54	66.6	+ 7.7	90	6	41	29	60	4.56	+1.11	2.68	24-25	0	11	20	7	4	s.	U. S. Weather Bureau
Eldon	Miller	934	52	65.6	+ 8.4	86	15	41	29	48	3.98	+0.28	1.54	24-25	0	7	19	10	2	sw.	Arthur Rothwell
Harrisonville	Cass	904	69	66.2	+10.1	91	6	41	29	72	2.30	−0.67	0.74	23-24	0	9	22	0	9	s.	Jeffrey B. Patterson
Jefferson City	Cole	557	57	64.2	+ 7.4	88	14	38	20	65	4.14	+0.77	1.49	30-31	0	8	19	4	8	sw.	K. W. O. S. Radio Farm
Joplin Airport	Jasper	988	25	68.4	+ 8.2	93	5	42	29	42	2.31	−1.14	1.42	24 25	0	7	15	9	7	s	Civil Aeronautics Adm.
Lakeside	Miller	595	16	65.4	+ 5.6	88	12†	42	29	16	3.75	+0.94	1.45	30-31	0	6	21	7	3	se.	W. S. Frame
Lamar	Barton	980	59	66.6	+ 7.7	91	5	37	29	66	2.06	−1.55	1.13	25	0	6	24	2	5	sw.	Mrs. Marie Mann
Lebanon	Laclede	1,265	59	66.2^c	+ 8.5	88	14	38^f	29	60	3.16	−0.61	1.02	24-25	0	6	10	17	4	sw.	Mrs. Rosa E. Montelius
Lexington	Lafayette	688	62	....	......	..	..	..	..	63	....	......	....	..	0	..	..	..	..	......	Walter L. Savio
Lockwood	Dade	1,078	41	68.2	+ 9.5	93	6	40	29	51	2.89	−1.01	1.36	30-31	0	6	23	5	3	sw.	Hubert A. Nieman
Marshall	Saline	779	60	64.9	+ 8 3	87	14	40	29	57	3.42	+0.29	1.39	23-24	0	5	19	6	6	s.	Thomas A. Reid
Monett	Barry	1,317	0	66.6	......	86	6†	44	28	0	3.17	......	2.09	30-31	0	4	23	6	2	s.	Mo. Univ. Fruit Exp. Sta.
Mountain Grove	Wright	1,463	46	66.0	+ 8.4	86	13†	39	29	50	5.04	+1.58	2.30	26-27	0	6	21	7	3	se.	Mo. Fruit Exp. Station
Mount Vernon	Lawrence	1,174	35	67.2§	+ 8.6	89	5†	39	29	47	2.43	−0.95	1.68	24	0	6	21	6	4	s.	James C. Williamson
Neosho	Newton	1,011	60	66.6	+ 7.4	92	5	36	29	64	1.10	− 2.59	0.62	25	0	5	21	5	5	se.	U. S. Fisheries Station
Nevada	Vernon	862	54	68.0	+10.4	93	5†	37	29	55	1.49	−1.58	0.72	25	0	8	24	2	5	sw.	Henry Kraft
Ozark Beach	Taney	700	7	66.4	......	91	13	40	29	22	2.18	−1.69	1.02	24-25	0	4	23	3	5	nw.	Empire District Elec. Co.
Sedalia	Pettis	910	34	66.0	+ 8.3	86	5†	38	29	36	6.69	+4 01	2 69	3-4	0	7	20	3	8	sw.	Dr. J. E. Cannaday
Seligman	Barry	1,542	46	66.6	+ 7.6	88	5	41	28	44	1.40	−2.06	0.72	30-31	0	3	23	5	3	w.	Floyd E. Fawver
Seymour ....4 miles NE	Webster	1,642	41	63.8	+ 6.4	86	13†	33	29	41	1.70	−1.78	0.95	24-25	0	5	26	4	1	s.	Ira H. Hailey
Springfield...4 mi. NW	Greene	1,265	59	65.9	+ 8.3	87	14	40	29	59	3.24	+0.19	2.42	24-25	0	7	20	6	5	s.	U. S. Weather Bureau
Sweet Springs	Saline	700	6	§64.2^a	......	88^a	6	37^a	29	6	4 32	......	1.45	3-4	0	8	16^a	12^a	2^a	s.	H. F. Nelson
Warrensburg	Johnson	878	60	67.2	+ 9.2	89	5†	40	29	67	5 14	+2.12	2.00	30-31	0	8	21	5	5	se.	Central Teachers College
Warsaw	Benton	687	46	66.2	+ 7.2	89	7†	37	29	52	5.18	+1 38	1.62	30-31	0	9	22	4	5	sw.	Dora B. Johnson
Wasola	Ozark	1,294	6	68.2	......	88	13	41	28†	7	2.88	......	1.06	25	0	4	19	10	2	s.	A. W. Pinckney
Waynesville...1¼ mi. E	Pulaski	805	1	....	......	..	..	..	..	1	....	......	....	..	....	..	..	..	..	......	Fred M. Sanderson
Division means	**and extremes**	.....	..	**66.3**	**+ 8.0**	**94**	**5**	**33**	**29**	..	**3 08**	**−0.06**	**2.69**	**3-4**	**0**	**6**	**20**	**6**	**5**	**sw.**	
Southeastern Division																					
Advance.... ¼ mile W	Stoddard	354	10	65.1	+ 5.9	89	13	40	2	10	6.20	+3.59	1.49	31	0	6	16	9	6	ne.	U. S. Weather Bureau
Arcadia	Iron	926	66	63.9	+ 7.9	91	14	37	1	69	3.44	−0.01	1.05	25-26	0	5	14	3	14	w.	Arcadia College
Birch Tree... ½ mile E	Shannon	1,000	52	64.6^c	+ 6.2	89^c	13†	36^c	29	53	2.94	−0.34	....	..	0	5	21^c	6^c	1^c	ne.	Mrs. Mildred E. Catlett
Black.......9 miles NW	Iron	1,000	54	61.2	+ 5.3	89	14	33	1	54	4.85	+1.26	2.20	24-25	0	7	15	13	3	sw.	M. L. Volner
Campbell	Dunklin	314	21	61.5^i	+ 1.4	89^i	9	43^i	1	21	4.80	+1.70	1.90	25-26	0	8	20^a	7^a	3^a	s.	Mrs. Ruth Christian
Cape Girardeau	Cape Girardeau	347	2	67.2	......	90	14	42	1	47	5.77	+2.47	2.00	25-26	0	5	12	13	6	s.	State Teachers College
Caruthersville	Pemiscot	265	51	69.0	+ 6.8	89	13	46	1	55	4.87	+1.51	1.93	26-27	0	7	17	7	7	s.	Victor T. Malloure
Clearwater Dam	Wayne	648	1	64.6	......	87	13†	38	29†	1	5.02	.....	1.72	25-26	0	6	18	4	9	e.	U. S. Engineer Office
Crystal City	Jefferson	420	13	65.0	+ 6.6	90	12	41	10	13	3.85	+1.08	1.75	24-25	0	9	15	6	10	sw.	Richard K. Ragland
Doniphan	Ripley	344	43	66.0	+ 7.5	90	13	38	29	43	5.47	+2.41	1.31	31	0	8	20	5	6	w.	Boyce Lackey
Farmington	St. Francois	896	36	63.8	+ 7.0	87	14	37	1	50	4.23	+0.79	1.84	25-26	0	7	14	7	10	s.	F. M. Karsch
Greenville ...1 mile SW	Wayne	415	38	65.3	+ 7.7	91	7	38	1	40	5.58	+2.30	1.80	31	0	7	13	11	7	s.	Beuford Shoemake
Jackson	Cape Girardeau	428	56	66.6	+ 8.7	91	13	39	1	57	4.41	+0.89	1.33	25-26	0	7	16	11	4	se.	Danny Siebert
Koshkonong	Oregon	958	46	67.8	+ 8.2	90	13†	41	1	47	2.51	−0.71	1.07	25-26	0	7	21	7	3	se.	Mrs. Genevieve T. Smith
Licking...... 4 miles N	Texas	1,170	10	64.5^c	+ 5.7	87^c	13	37^c	29	10	5.32	+2.01	2.25	24-25	0	7	20^c	2^c	6^c	s.	Fern E. Austin

Continued on next page

Climatological Data for October 1947—Continued from preceding page

Stations	Counties	Elevation, feet	Temperature, in degrees, Fahr.							Precipitation, in inches						Number of days				Prevailing direction of wind	Observers
			Length of record, years	Mean	Departure from the normal	Highest	Date	Lowest	Date	Length of record, years	Total	Departure from the normal	Greatest in 24 hours [4]	Date	Total snowfall, unmelted	With precip., .01 inch or more	Clear	Partly cloudy	Cloudy		
Southeastern Division—	*Concluded*																				
Marble Hill	Bollinger	532	52	64.8	+ 6.6	90	13	39	2†	54	5.69	+2.27	1.95	25	0	6	18	5	8	s.	R. A. DeWitt
Poplar Bluff	Butler	339	42	66.7	+ 6.6	90	13	41	29	43	4.54	+0.88	1.20	31	0	7	21	4	6	sw.	Osmon M. Richardson
Rolla	Phelps	1,202	47	64.4	+ 7.9	87	14	41	1	63	7.38	+3.92	2.13	24-25	0	7	18	9	4	s.	Rolla School of Mines
St. Louis:																					
City Office		465	110	67.2	+ 8.4	88	17	46	30	110	6.60	+3.88	3.98	24-25	0	8	17	6	8	s.	**Section Center**
St. Louis Airport	St. Louis	556	10	65.5	+ 8.2	89	14	45	1	16	4.05	+0.63	1.58	24-25	0	8	16	3	12	s.	U. S. Weather Bureau
St. Louis University	St. Louis City	578	35	66.6	+ 8.0	85	12†	46	1	35	6.23	+3.07	3.28	24	0	9	20	4	7	se.	St. Louis University
Salem	Dent	1,206	43	64.0	+ 6.4	88	14	37	29	46	5.96	+2.34	2.50	24-25	0	7	19	9	3	s.	E. E. Martin
Sikeston	Scott	318	40	67.0	+ 7.7	89	13	40	1	50	4.30	+1.03	1.15	26-27	0	6	15	13	3	e.	Mrs. Lucy W. Humphreys
Union 1½ mi. SE	Franklin	520	9	63.7	+ 4.2	90	14	40	1†	30	5.95	+2.47	1.66	25-26	0	8	19	4	8	se.	Cornelius Sieges
Vichy 2 mi. NW	Maries	1,125	11	65.8	......	84	6	42	1	12	7.87	......	2.47	31	0	9	13	11	7	s.	Civil Aeronautics Adm.
Wappapello Dam	Butler	475	8	66.4	......	89	13	43	1	8	4.92	+1.64	1.84	31	0	7	17	8	6	s.	U. S. Engineer Office
Webster Groves	St. Louis	507	1	63.8	......	87	14	41	1†	2	6.71	......	3.30	24-25	0	9	20	5	6	se.	R. W. Lawrie
Weingarten	St. Genevieve	833	6	64.6	......	88	14	41	30	7	4.10	......	1.30	24	0	6	14	12	5	s.	William J. Miller
West Plains	Howell	1,005	10	64.6	+ 5.7	89	14	37	29	10	2.27	−0.95	0.78	25	0	8	17	9	5	s.	U. S. Weather Bureau
Willow Springs 500 ft E	Howell	1,238	6	64.6	......	86	14	37	29	40	2.19	−1.13	1.20	25	0	4	20	3	8	s.	Allen Frazee
Cairo, Ill.	Alexander, Ill.	314	75	67.8	+ 7.3	87	13	44	1	76	4.80	+2.04	1.49	25-26	0	8	13	12	6	ne.	U. S. Weather Bureau
Division means	**and extremes**	.....	..	**65.3**	**+ 6.7**	**91**	**7†**	**33**	**1**	..	**4.86**	**+1.81**	**3.98**	**24-25**	**0**	**7**	**17**	**7**	**7**	**s.**	
State means	**and extremes**	.....	..	**65.2**	**+ 7.3**	**94**	**5**	**29**	**29**	..	**3.83**	**+0.87**	**3.98**	**24-25**	**0**	**7**	**18**	**6**	**7**	**s.**	

The departures from normal temperature are computed from the averages of the entire period for stations having 10 or more years of record. Departures of precipitation for stations with 15 years or more of record are computed from a normal or "standard mean", adjusted to a uniform 35-year period; for stations of 10 to 14 years the means for the period of record are used. The normal may be found by adding the departures when minus (−) or subtracting when plus (+). Figures and letters following stations indicate distance in miles and direction of station from the city Post Office, unless otherwise indicated. T. Trace or 0.005 inch or less. [a], [b], [c], etc., number of days missing; for example, [b], indicates two days missing. Italics data interpolated. § Partly interpolated. † And other dates. ‡ Received too late to be included in means and summaries. [4] Best available used for stations not equipped with recorders. Post office address of: Altona is Adrian; Clearwater Dam is Piedmont; Crane Mountain is Arcadia; East End is Goodland; Eastwood Lookout is Van Buren; Hailey is Cassville; High Lookout is Birch Tree; Macedonia Lookout is Doniphan; Oates Tower is Centerville; Perry is Center; Pineview Lookout is Cape Fair; Sugar Camp Lookout is Seligman; Topaz is Cabool; Wilderness Lookout is Lampe. (C) Airport. ¶ Indicates plus.

(Continued from page 73)

Unprecedentedly warm weather and the absence of a killing frost or freezing temperatures, except locally at Tarkio, during October, permitted practically all crops to reach maturity. Harvest of the corn, cotton, and soybean crops was under way throughout the first three weeks of the month, under nearly perfect weather conditions, but harvesting was interrupted by general rains the last week of the month. Plowing for and the seeding of small grains made rapid progress until the last week of October, when these activities were also curtailed by rain. By the close of the month most of the acreage intended for wheat, barley and rye had been seeded and these crops were up to good stands and making very good growth; some early sown fields were being grazed. The condition of pastures improved considerably during the first and last weeks of the month, but it was too dry, generally, during the middle of the month for much growth. Cotton matured satisfactorily during the month and picking was well along by the close. A large crop of late apples was being picked and marketed throughout the month. Alfalfa made good growth early in the month and some fields were cut for hay. The fine rains during the last week of October not only ended the long and severe drought, but also replenished short water supplies in practically all areas of the State, at least temporarily. Due to the prevailing high prices and world shortage of all grains, and the prospect of these prices being maintained, a rather large acreage of small grains, especially wheat, was sown this fall, much of it before fly-free dates. This practice usually entails a risk of future damage to the crop by the Hessian fly. Livestock were in good condition and were able to forage in fields and pastures throughout the month and dry feeding was thus reduced to a minimum.—M. R. W.

TEMPERATURE

The monthly mean for the State, 105 stations reporting, was 65.2°, or 7.3° warmer than the 60-year October average. The highest monthly mean was 68.4° at Joplin Airport, and the lowest was 60.8° at Unionville. The highest reported was 94° at Anderson on the 5th, and the lowest was 29° at Tarkio on the 29th.

PRECIPITATION

The average for the State, 211 stations reporting, was 3.83 inches, or 0.87 inch more than the 60-year October average. The greatest monthly amount was 7.87 inches at Vichy, and the least was 0.83 inch at Granby. The greatest amount reported in 24 hours was 3.98 inches at St. Louis City Office on the 24-25th. The average number of days with 0.01 inch, or more, was 7. There was no snowfall reported anywhere in the State.

MISCELLANEOUS PHENOMENA

Fog.—Heavy, 3d, 4th, 5th, 8th, 9th, 12th, 13th, 14th, 18th, 24th, 25th, 26th, 27th, 28th, 29th, 30th, 31st.

Frost.—Light, 10th, 19th, 29th.

Hail.—Light, 4th at Sikeston and West Plains; 17th at Neosho and Parma; 27th west of Waynesville; 30th at Pleasant Hill and Warrensburg. Moderate, 4th at High Lookout. Heavy, 17th at De Soto. (See special storm table).

Sleet.—27th.

Windstorms.—No damaging windstorms reported.

Daily Precipitation for October 1947

Stations	Drainage-basins	Day of month																															
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Total
Northern Division																																	
Albany	Grand	.16		.47	.45				.93				.07					.01						.21	.72	.03	.32	.01			.11	.40	3.89
Amity	do	.10		T.	1.20				.30				T.					.01						.38	.61	T.	.33	.02	T.		T.	.25	3.20
Auxvasse	Missouri				.63														.08						.28	1.57	.03	.05	.08			.64	3.36
Bethany	Grand	.54			1.21				.34									T.						.18	.33	T.	.42	T.			T.	.24	3.26
Bowling Green[2]	Mississippi	.18	.10		*	.31																				.61	*	1.46	.18			.43	3.27
Brookfield[2]	Grand	.21			.75																				T.	.87	.35	.10	.12			.56	2.96
Browning 3 mi. NE	do	1.07	T.		.61																			.79	.79	.03	.63	.02	.14			.54	4.62
Brunswick[2]	do		.05		.78																				.85	.93	.12	.14	.01			.68	3.56
Canton, Lock No. 20[2]	Mississippi	.04	.21		.62																				T.	.38	.28	.10	.30			.73	2.66
Carrollton	Missouri	T.			.65																			1.15	1.12	.10	.13	.01			.08	.60	3.84
Centralia[2]	Mississippi				.63																					.84	.32					.64	2.43
Chillicothe[2] (B)	Grand	.07			.56					T.														T.	.92	.33	.28	T.	.04			.53	2.73
Chillicothe[3] 2 mi ESE (C)	do	.22		.47	.01				T.															.61	.66	T.	.18	.05			.41	.17	2.78
Columbia[1, 5]	Missouri	T.			.86																				.24	1.09	.07	.01	T.		.65	.15	3.07
Columbia[5] 9 mi. WNW	do				.78																				.05	1.02	.25		T.			.62	2.72
Conception	do	.08		T.	.76				T.				T.											.37	.47	T.	.35	T.			T.	.30	2.33
Edgerton[2]	do	T.			.75					.15				.09					.07						2.50		.26					.65	4.47
Edina[2]	Mississippi	T.	.53		.56				T.																	.60	.30	.28	.38			1.65	4.30
Elsberry S. C. S.[2]	do	.06	T.		.16	.01	T.																			.82	1.10	1.48	.22		T.	.43	4.28
Fayette	Missouri	T.			.49																				.27	.73	.21		.03			.78	2.51
Fulton[2]	do				.96															T.						1.47	.35	.10	.04			.49	3.41
Gallatin[2]	Grand				.90																				1.30	.24	.42					.49	3.35
Grant City	do	.44		.13	1.06				T.	T.			T.					T.						.04	.60	T.	.30	*	.05			1.11	3.73
Hannibal[1] (A)	Mississippi	.38			.58																				.41	.61	.20	.19	.13		.12	1.16	3.78
Hannibal[2] (B)	do	T.	.75		.56	T.																			T.	.24	.59	.35	.19			.62	3.30
Hermann[2]	Missouri				.68	.20													T.							1.13	1.56	1.11				.77	5.45
Kahoka[2]	Mississippi	.06	.34		.70																					.67	.25	.04	.34			.65	3.05
Kansas City Airport[1, 5]	Missouri			1.13	T.								.03											.67	.66	T.	.25				2.51	T.	5.25
Kansas City University	do	.01			.72								T.					T.						.91	1.17		.25				*	1.26	4.32
Kidder[2]	Grand	.04			.87														T.						1.40	.68	.30					.30	3.59
King City	Missouri				.88				.74															.41	.45		.47	.03	.33			.07	3.38
Kirksville	Mississippi	.58			.68																			.80	.90	.22	.52		.45			.46	4.61
Kirksville Airport[3, 5]	do	.51		.39	.22			.01																.33	.88	.23	.21	.34	.06		.47	.21	3.86
LaBelle[2]	do	.25	.30		.72																					.60	.50	.04	.05			.70	3.16
Lathrop	Grand				.90								.02											.84	1.08	.03	.18	T.			*	.70	3.75
Linneus	do	.17			.60			.01																.01	.84	.06	.66	.02	.09			.45	2.91
Louisiana (A)	Mississippi	.42			.23																				.59	.86	.12	.58	.25			1.25	4.30
Louisiana[2] (B)	do	T.	.43		.15	T.																				.79	.57	.68	.18			.64	3.44
Lucerne[2]	Grand	.90	T.		.98																				.49	.33	.49	T.	.22			.31	3.72
Macon[2]	Chariton	.08	.51		.90																				.06	.51	.33	.17	.27			.51	3.34
Madison[2]	Mississippi		.15		.55																					.95		.25				1.05	2.95
Martinsburg[2]	Missouri		.13		.45																					.58	1.10	.76	.30	.04		.82	4.18
Maryville	do	.08	T.	*	1.06				.05				.09					T.						.79	.29	T.	.17	.02			.12	.79	3.46
Memphis[2]	Mississippi	.20	.33		.60																				.05	.68	.24	.35	.28	T.		.60	3.33
Mexico[2]	do	T.			.50																					.52	.76	.04	.10			.62	2.54
Milan[2]	Grand	1.03	.14		.86					.08														1.37	.74	T.	T.	.84	.18			.40	5.64
Moberly[2] 3½ mi. NE	Mississippi	.01			.55																				.76	.06	.07	.10				.95	2.50
Monroe City	do	.59			.43																				.89	.78	.13	.28				.94	4.04
New Florence[3, 5] 1 mi SE	Missouri	T.			.54																				.24	1.12	.80	.20	.10	T.	.20	.44	3.64
Oregon[1]	do		T.	.61					2.53				.16					T.						.42	.53	T.					.03	.27	4.55
Palmyra[2]	Mississippi	.16	.28		.42																					.58	.71	.05	.18			.61	2.99
Paris[2]	do	T.	.84		.41																					.89	.48		.30	.02		.58	3.52
Perry 1 mile E	do	.30			.45																				.30	.80	.10		.30		.25	.25	2.75
Philadelphia	do	.62			.78																				.65	.57	.05		.21			.73	3.61
Polo[2]	Missouri	T.			1.01									T.					.05						1.17	.01	.25		T.			.39	2.88
St. Charles[2]	do	T.	.05		.05	.28																			T.	.83	1.13	.68	.12	T.		.50	3.64
St. Joseph Airport[1, 5]	do	.01		.96					.93				.04					T.						1.57	.72	T.	.14	T.			T.	.08	4.45
Salisbury	Chariton	.05			.87																				.85	.46	.13	.01	.07			.84	3.28
Saverton, Lock No. 22[2]	Mississippi	.04	.36		.42																					.60	.56	.41	.23	.01		.33	2.96
Shelbina	do	.64			.64																				.58	.56	.06					1.48	3.96
Shelbyville	do	.56			.63																				.71	.43		.31				1.23	3.87
Steffenville	do	.79			.57																				.74	.64	.05		.27	.01		1.21	4.28
Tarkio[3]	Missouri	T.	T.	.36					.38				T.					.04						.18	.28	T.	.18	T.			.27	.04	1.73
Trenton[2]	Grand	.58			.99									T.										.15	.94	.03	.67		.03			.46	3.85
Troy[2]	Mississippi	.02	.05		.23	.08																				.85	1.02	1.78	.20	.08		.45	4.76
Unionville[2]	Chariton	.49	.22		.92																				.37	.35	.06	.50	.35			.43	3.69
Vandalia	Mississippi	.15			.43																				.30	.88	.26	.27	.27			.82	3.38
Warrenton	do	T.			.43	T.																			.24	1.22	.06	.72	.34	T.		1.05	4.06
Keokuk, Iowa[1]	do	.23		.02	.57																			T.	.37	.10	.08	.20	.09			1.45	3.11
Southwestern Division																																	
Altona[2]	Osage				.20														.18						1.40	.40	.40	.08				.55	3.21
Anderson[2] 1½ mi. SW	Neosho				.09																					.55	.05	T.				.94	1.63
Appleton City 2 mi. W	Osage				.13													.09	.25					.20	.93	.85	.26	.11				.23	3.05
Ava Ranger Station[2]	White																																....
Bolivar	Osage				.05													.32							.29	1.70						.51	2.87
Boonville[2] (A)	Missouri				1.00																				.08	1.56	.20	.14				1.00	3.98
Boonville[2] (B)	do				1.04																				.18	1.50	.55	.18				.99	4.44
Bradleyville[2]	White																									.32	1.14					1.03	2.49
Buffalo[2]	Osage				.14														.52							.96	.30	.06				.97	2.95
Butler	do				.44													.12						.70	1.27	.83	.09	.12			T.	.42	3.99
Camdenton	do				1.22													.10								1.37	.12					1.67	4.48
Caplinger Mills[2]	do																		.62						.19	1.17	.14	.02				.69	2.83
Carthage	Neosho				.09																			*	.69	.93						.10	1.81
Cassville[2]	White				.04														.47							.45	.06	.04				.89	1.95
Chadwick[2]	do																		.02							.69	.25	.64				.37	1.97
Clinton[3]	Osage			.07	.12													.17	.14					.12	1.08	1.73	.19	.07			.83	.04	4.56
Concordia	Missouri	T.			1.83														.02					.22	1.22	.42	.09					1.20	5.00
Crocker	Osage	.02			.69													.31							.05	1.15			.18			2.00	4.40
Eldon	Missouri				.42														.19						.29	1.25	.38	.07				1.38	3.98
Eldorado Springs	Osage					T.		T.										.22	1.00					.34	.64	1.10	.11				T.	.31	3.72
Elijah[2]	White																																....
Forsyth[2]	do																								.05	.65	.35	.45				.40	1.90
Galena[2]	do				.05				T.									T.	.37							.13	.12	.07				.52	1.26
Granby[2]	do				.06													T.	.01							.54	.03	T.				.19	0.83
Hailey	do																	1.86														1.09	2.95
Harrisonville[2]	Osage				.30													.09	.01					.01	.74	.65	.27	.09				.14	2.30
Jefferson City[2] (A)	Missouri	.03			.58	T.			T.											.02						.95	.93	.13	.01	T.	T.	1.49	4.14
Jefferson City[2] (B)	do	.01			.53															.05						1.00	.85	.15	.01			1.27	3.87

Continued on next page

Daily Precipitation for October 1947—Continued from preceding page

Stations	Drainage-basins	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Total
Southwestern Division—	*Concluded*																																
Joplin Airport³	Neosho			T.	.03													T.						.44	.22	1.25	.10				.21	.06	2.31
Lakeside², ⁵	Osage	T.			.58														.04							1.10	.25	.33				1.45	3.75
Lamar²	Neosho				.05				.18																.35	1.05	.08					.35	2.06
Lebanon	Osage				.12													.72								1.02	.09	.22				.99	3.16
Lexington²	Missouri																																....
Lockwood	Osage				.05													T.						.15	.10	1.18		.05				1.36	2.89
Mansfield²	White				T.														.22							.65	1.08	.82				.60	3.37
Marshall	Missouri				.68																				1.39	.51	.22					.62	3.42
Marshfield²	White				.07														.69							.63	.14	.18	T.			.85	2.56
Monett²	Neosho																		.32							.72	.04					2.09	3.17
Mountain Grove²	Gasconade				.02														.03							.95	1.30	2.30				.44	5.04
Mount Vernon²	Neosho				.09														.29						1.68	.14	.03					.20	2.43
Neosho	....do				.21													.01							T.	.62	.02					.24	1.10
Nevada	Osage				.02													.11						.22	.18	.72	.13	.05				.06	1.49
Osceola²	....do				.08														1.06						.16	.93	.13		.10			.53	2.99
Ozark²	White																		.41							.40	.13	.42				.29	1.65
Ozark Beach²	....do				T.																					1.02	.20	.47				.49	2.18
Pierce City²	Neosho				T.														.68						.05	1.70	.17					.58	3.18
Pineview Lookout²	White																																....
Pleasant Hill²	Osage				.83									T.					T.						1.05	.85	.24	.05				1.22	4.24
Roby	Gasconade				.45													.34								1.85	.87	.97				1.96	6.44
St. Thomas², 2¼ mi sw	Osage				.32														T							*	1.50	.25				2.00	4.07
Sedalia	Missouri				2.69														.08					.10	.50	1.15	.15					2.02	6.69
Seligman²	Neosho																									.58	.10					.72	1.40
Seymour² ..... 4 mi. E	White																		.20							.21	.74	.15				.40	1.70
Shell Knob²...3 mi. SE	....do				T.														.20							.05	.20	.09				.45	0.99
Siloam Sprgs Lookout²	....do																										.89	.31				.29	1.49
Springfield¹, ⁵. 4 mi. NW	Osage				.10													.14						T.	.03	2.39	.14	T.			.22	.22	3.24
Stover²	Missouri	.05			.35																				.30	1.35	.13					.92	3.10
Sugar Camp Lookout²	White																																....
Sweet Springs	Missouri	.03			1.45														.01					.05	.98	.52	.13					1.15	4.32
Tecumseh². .¼ mi. W	White																	T.						T.			.94	.56				.42	1.92
Topaz²	....do	.01																							.05		.76	.39				.60	1.81
Vanzant²....3¾ mi. SE	....do																								.05	.15	.95	1.53				.62	3.30
Waco²	Spring																	.03							.04	1.08	.26	.01				T.	1.42
Warrensburg	Missouri	T.			1.09													.01	.03					.30	.61	.45	.65					2.00	5.14
Warsaw (A)	Osage				.98			.11										.22	.11					.74	.30	*	1.10					1.62	5.18
Warsaw² (B)	....do				.74				T.										.27						.70	1.16	.12	T.				2.06	5.05
Wasola²	White																									.14	1.06	.99				.69	2.88
Waverly²	Missouri				.88																			.31	.61	.63	*.19*					.90	§3.52
Waynesville...1½ mi. E	Gasconade																.46											*	.49			1.69	....
Wilderness Lookout²	White																								T.	.47	.19	.71				.39	1.76
Southeastern Division																																	
Advance²....½ mile W	St. Francis				1.22	T.											T.	T.	1.12					T.		.96	.88	.53				1.49	6.20
Alton.......10 miles SE	Black				.20														.02							.60	1.00	.36				.78	2.96
Annapolis²....7 mi. W	....do					.79													.14	.17					.01	.03	1.25	.74	T.			1.21	4.34
Arcadia²	St. Francis					.46													.10						T.		1.05	.80				1.03	3.44
Belleview²	Meramec					.57											.07									.18	.89	.63	.01			.90	3.25
Bernie²	St. Francis					.56													.45								1.64	.99	.05			1.38	5.07
Birch Tree² ...½ mile E	Black					.37																				*	*	2.02				.55	2.94
Black...... 9 miles NW	....do				.62													.18	.03					T.		2.20	.31	.43				1.08	4.85
Bloomfield²	St. Francis					.65													.13							.11	1.75	.99	.04			1.58	5.25
Bunker²... 4 miles NW	Black				.04	.28													.06	.20						.20	1.20	.20				1.60	3.78
Campbell	St. Francis				.70												T.	.03	.02					.02		.26	1.90	.52				1.35	4.80
Cape Girardeau....(A)	Mississippi				.67														T							1.00	2.00	.60				1.50	5.77
Cape Girardeau²...(B)	....do					.91													.02								3.31	1.01	T.			.89	6.14
Caruthersville²	....do					.64													.83	.08							.80	1.93	.08			.51	4.87
Centerville(1)²	Black	.05				.31													.05							T.	1.41	.65				1.25	3.72
Centerville(2)²	....do	T.				.38													.05	T.					T.	T.	1.19	.74	T.			1.23	3.59
Clearwater Dam²	....do					.70														.25					.02		1.72	.83				1.50	5.02
Cook Station²	Meramec				.54														1.55							.51	1.27	.90				1.22	5.99
Crane Mountain²	St. Francis				.72	.04														.74					.05		.84	.72				1.00	4.11
Crystal City	Mississippi				.55													.06	.01						.37	1.38	.28	.67	.02			.51	3.85
Cuba	Meramec				.59													.02	.08						1.03	1.82	.10	.91				1.46	6.01
Deering²	St. Francis					1.38													.27	.03							1.45	1.83	.05			1.58	6.59
De Soto	Mississippi				.72													2.40	.11						.07	1.52	.19	.55	.06			.76	6.38
Dexter²	St. Francis					1.81																					1.32	1.02	.03			.37	4.55
Doniphan(1)	Black				.94													T.		.15	.02			.20		1.20	1.12	.53				1.31	5.47
Doniphan(2)²	....do					2.20																			.24		1.00	1.61				1.15	6.20
East End²	Meramec				.53	T.													.32	.72						.97	1.47	.71				.72	5.44
Eastwood Lookout²	Black																																....
Ellington²	....do					.56														.41					T.		2.00	.74				1.40	5.11
Ellsinore	....do																																....
Farmington²	St. Francis					.88														.05					.01	.12	1.84	.68				.65	4.23
Fisk²	....do					.90																			.05	.10	1.30	.80	T.	T.		1.30	4.45
Fredericktown²	....do					.64													.12	.03					.04	T.	1.70	.73				.99	4.25
Gerald	Meramec				.56	.02																			.49	1.81	.06	1.33	.05			.83	5.15
Greenville² .. 1 mi. SW	St. Francis					.89													.12						.23	.07	1.55	1.00				1.72	5.58
High Lookout	Black				.32															T.						*	*	1.51				.36	2.19
Jackson	Mississippi	.01			.51	T.											T.		.04						T.	.75	1.33	.73	T.			1.04	4.41
Jerome²	Gasconade	T.			.72	T.													.18							1.10	1.48	.78				1.13	5.39
Koshkonong²	Black					.05													.04						.05	.03	1.07	.75				.52	2.51
Leeper²	....do					.65													T.	.10					T.		1.17	1.04	.11			1.42	4.49
Licking²	Gasconade				.80	.15																				.50	1.75	1.47	.11			.54	5.32
Macedonia Lookout²	Black					.75												T.	T.						.11		*	1.90	.52			.70	3.98
Marble Hill	Mississippi				.70														.08							1.95	.95	.66				1.35	5.69
Morehouse	....do				1.20														.30								.24	1.37	.49			1.26	4.86
Moselle²	Meramec				*.45*	*.05*													.67						T.	2.01	1.03	.89	.03			1.04	§6.17
New Madrid²	Mississippi					.92													.17						T.		1.01	1.22	.11			.60	4.03
Oates Tower²	Black	.02			.03	.59													.09	.01					T.	.01	1.70	.68				1.25	4.38
Owensville²	Gasconade				.48	T.													T.							.85	1.20	1.15				.90	4.58
Pacific²	Meramec				*.35*														*.21*							3.95	.90	.66				.92	§6.99
Parma²	St. Francis					.68													.60								1.20	.85				.37	3.70
Perryville	Mississippi				.71																			.01	.02	1.03	.65	.59				.85	3.86
Poplar Bluff²	Black					.95													T.	.02					.09	.27	1.08	.93				1.20	4.54
Puxico²	St. Francis					.71													.51						.05	.27	1.48	1.12	.04			1.45	5.63
Qulin²	....do					.53												T.	T.	T.					.07		1.70	1.04				1.34	4.68
Reynolds²	Black					.39													.24								1.44	.74				1.19	4.00
Richwoods²	Meramec				.40	.50													.17							1.00	1.05	.73	.09			.71	4.65
Rolla²	....do				.70														.30							2.13	.22	2.08	.07			1.88	7.38
Round Spring²	Black																										1.23	.78	.12			1.15	3.28

Continued on next page

Daily Precipitation for October 1947—Continued from preceding page

Stations	Drainage-basins	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Total
Southeastern Division —	*Concluded*																																
St. Louis:																																	
City Office[1, 5]	Mississippi	.04			.31													T.							2.87	1.31	.42	.77	.04			.84	6.60
Airport[3, 5]	Missouri	.04			.40																				.67	1.22	.50	.45	.07			.70	4.05
St. Louis Univ.[1, 5]	Mississippi	.08			.32													.02							3.28	.89	.33	.72	.03			.56	6.23
Washington Univ.[3]	do		.06		.13	.30																				3.09	.95	.94	.12			.32	5.91
Salem	Meramec				.48													.48							.50	2.00	.05	.91				1.54	5.96
Sikeston[3]	Mississippi					1.02													.36	T.					T.		1.11	1.13	.02			.66	4.30
Steelville[2] ...2½ mi. NE	Meramec				.88														.20	T.						2.10	1.09	.78				1.38	6.43
Sullivan[2]	do	T.			.30	T.													.58							1.62	1.07	.86	.02			1.18	5.63
Summersville[2]	Black				.25	.92																				.05	.82	.51				.49	3.04
Union[2] ....1½ mi. SE	Meramec				.57	.07																			.20	1.50	1.66	.97	.05			.93	5.95
Valley Park[3]	do				.20	.52													.08			T.			T.	3.30	.77	.83	.05	.05		.47	6.27
Van Buren[2]	Black					.96														.18							1.60	.94				.90	4.58
Vichy[3] .....2 miles NW	Meramec				.51													.34	.04						1.13	1.34	1.83	.10	T.		.11	2.47	7.87
Wappapello Dam[3]	St. Francis					.98												*T.*	.13	T.					.04	.08	1.04	.83				1.82	4.92
Webster Groves	Mississippi	.02			.35	T.												.13							.72	3.30	.30	.78	.17			.94	6.71
Weingarten	do				.63														.15							1.30	.70	.45				.87	4.10
West Plains[3]	Black				.10	T.												.03						.42		.78	.45	.13			.02	.34	2.27
Williamsville[2]	do					.90																			.04		2.00	.64				1.48	5.06
Willow Springs[2] 500 ft E	White				.06																			T.			1.20	.53				.40	2.19
Winona Ranger Sta.[2]	Black				.30	.40														.05						.04	1.40	.50				.84	3.53
Zalma[2]	Mississippi					.79													1.61						.07		1.66	1.12	T.			1.26	6.51
Cairo, Ill.[1, 5]	do				.63				T.									.22	.45					.01		1.14	.43	1.07				.85	4.80

Except as otherwise indicated, amounts are for 24 hours ending late in afternoon. [1] Midnight to midnight. [2] Measured in the morning; for the preceding 24 hours. [3] Data for 24 hours ending 12:30 A. M. (C. S. T.) of following day. [5] Recording gage. T. Trace or 0.005 inch or less. * Included in next measurement. // Windshield on gage. Italics data interpolated. § Partly interpolated. (A) Record from cooperative station gage. (B) Record from river station gage. (C) Airport.
‡ Received too late to be included in means and extremes.

Daily Evaporation (inches), Mean Temperature (F°), and Wind Movement (miles) for October 1947

(See precipitation data in daily precipitation table)

Station	Data	Day of month																															Monthly
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Columbia (Univ. of Mo. Hort. Exp. Sta. 9 mi. WNW.)	Evaporation	.137	.162	.233	.211	.144	.186	.087	.112	.107	.132	.145	.122	.114	.153	.168	.112	.110	.100	.149	.145	.160	.150	.110	.051	.050	.018	.059	.068	.026	.029	.031	3.581
	Mean temperature	54	64	68	68	69	72	71	69	64	62	64	70	69	72	71	64	68	66	62	63	68	69	70	63	63	58	52	55	50	54	58	64.2
	Wind movement	39	71	89	40	36	72	1	1	2	1	19	17	3	16	8	2	15	6	7	18	28	28	10	12	3	12	32	75	1	19	18	701
Lakeside (Osage Dam)	Evaporation	.167	.102	.166	.230	.121	.203	.167	.134	.136	.088	.256	.151	.117	.112	.144	.213	.120	.047	.118	.165	.136	.136	.135	.130	....	....	....	.135	.123	.083	.055	4.307
	Mean temperature	56	66	67	70	70	74	70	69	68	65	64	70	72	72	72	65	63	68	65	64	66	68	68	66	62	60	58	60	56	60	56	65.4
	Wind movement	69	49	44	78	31	42	31	19	23	22	30	31	12	13	12	31	18	30	24	29	25	26	26	35	37	24	47	118	74	52	74	1,176
St. Louis (Washington University)	Evaporation	.103	.042	.087	.158	.147	.083	.098	.091	.124	.106	.072	.039	.097	.089	.075	.116	.064	.114	.089	.139	.079	.098	.100	.075	....	.026	.000	.074	.000	.000	.054	2.520
	Mean temperature	52	62	69	68	68	70	70	69	64	60	64	71	70	72	71	70	74	71	69	68	70	70	67	68	62	64	58	52	52	54	50	65.2
	Wind movement	46	13	20	41	22	21	21	12	43	21	13	11	10	17	7	13	12	18	17	20	13	13	12	15	23	11	28	49	31	16	34	643

Observations taken at 8:00 a. m. except at 5:00 p. m. at Columbia. For Lakeside and St. Louis (Washington University) descriptions see April 1932 and August 1938 reports, respectively. * Included in next measurement.

Missouri Storms, October 1947

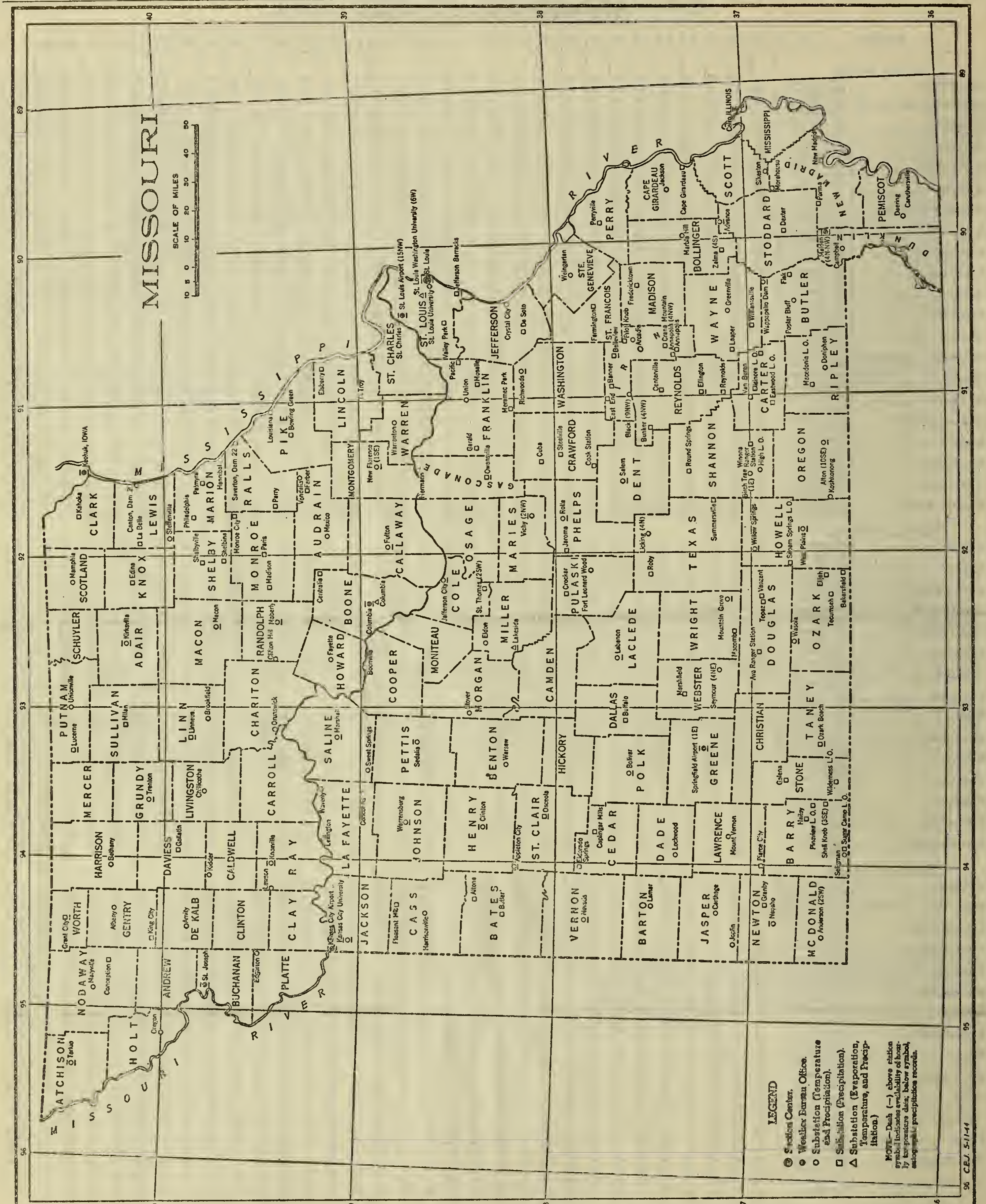
County	Date	Time	Nature of storm	Storm moved from	Width of path (miles)	Length of path (miles)	Loss of life	Property damage (estimated)	Remarks
Jefferson	17	About 4:00 p.m.	Heavy hail	W	1	1	0	$4,000	Storm occurred at De Soto, resulting in damage to many composition shingle roofs, greenhouse glass and late gardens. Stones were mostly ⅜ to ½ inch in diameter with a few as large as golf balls. The north half of the town was hardest hit. Heavy rain accompanied the hail which lasted about 30 minutes.

Time used on this tabulation is Central Standard Time, unless otherwise indicated.

Daily Temperatures for October 1947

Stations		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Northern Division																																	
Brunswick /	Maximum..	63	80	91	79	84	84	91	82	74	77	81	82	78	86	91	82	81	82	74	83	84	84	86	70	67	57	57	61	57	62	59	76.4
	Minimum ..	44	47	51	57	56	56	60	61	54	52	52	52	58	59	59	50	49	54	48	46	45	53	55	58	59	55	48	47	45	44	47	52.3
Chillicothe 2 mi ESE(C)	Maximum..	63	82	83	83	85	88	89	78	75	78	81	78	81	87	86	84	85	80	77	85	85	85	79	68	61	56	56	61	54	59	57	75.8
	Minimum ..	44	47	57	53	55	59	60	58	51	51	49	55	54	59	55	48	53	53	40	43	50	52	55	57	53	46	45	45	38	41	51	50.9
Columbia	Maximum..	64	80	84	80	83	86	85	82	77	78	80	86	82	87	87	78	82	83	79	84	84	84	82	71	63	63	61	63	58	67	59	76.8
	Minimum ..	48	54	58	58	60	54	62	58	55	50	54	60	60	62	59	50	59	49	49	47	59	61	62	62	60	54	48	51	46	47	52	55.6
Fayette	Maximum..	64	80	84	82	83	85	87	81	75	78	80	85	82	86	86	82	84	83	78	84	83	84	82	68	65	65	58	61	58	66	61	76.8
	Minimum ..	46	50	52	51	55	60	58	58	52	48	50	53	59	57	57	47	54	51	46	41	51	53	57	55	57	55	42	48	42	47	54	51.8
Grant City	Maximum..	62	80	83	81	87	90	87	78	85	78	78	73	79	86	83	82	83	78	78	85	86	84	75	73	57	54	54	64	60	53	54	75.2
	Minimum ..	42	53	63	52	57	62	64	58	57	52	53	55	50	56	57	56	52	50	42	50	55	55	58	55	47	48	40	41	33	42	41	51.5
Hannibal	Maximum..	53	78	84	79	80	86	83	75	73	74	78	85	75	88	84	80	84	83	76	84	85	85	79	75	63	63	55	54	52	57	55	74.4
	Minimum ..	43	45	56	56	58	61	53	59	50	46	45	58	60	60	61	54	60	56	57	50	58	59	56	57	57	53	46	46	46	47	49	53.6
Kansas City Airport..	Maximum..	70	85	86	85	91	91	88	81	78	84	84	79	84	88	88	87	85	80	80	87	85	85	73	73	58	60	61	64	69	70	57	78.6
	Minimum ..	50	60	61	59	65	66	69	63	58	59	62	61	56	66	67	62	57	57	46	58	62	63	60	58	52	50	46	46	40	48	51	57.4
Kirksville	Maximum..	57	78	82	80	84	85	89	80	75	76	79	82	78	85	85	80	84	82	79	82	83	82	82	66	61	60	55	53	52	54	54	74.3
	Minimum ..	42	45	59	55	56	62	63	61	50	45	47	54	54	60	58	51	54	54	48	49	53	55	55	54	54	53	45	46	46	47	50	52.4
Lathrop	Maximum..	65	83	86	83	87	89	87	75	78	80	80	74	80	86	85	83	81	79	78	85	84	82	72	68	63	55	60	65	65	61	60	76.1
	Minimum ..	46	55	61	53	59	62	65	63	52	53	53	59	57	62	68	55	57	55	41	52	57	56	58	57	50	49	42	40	35	45	49	53.7
Louisiana	Maximum..	65	78	85	80	79	87	86	84	77	75	80	87	79	90	87	83	87	85	80	85	86	86	84	74	63	65	63	56	54	62	57	77.1
	Minimum ..	43	47	53	57	55	60	57	52	51	37	37	50	57	53	53	49	55	50	53	39	46	49	49	49	55	52	43	48	46	49	52	49.9
Macon /	Maximum..	58	80	83	81	84	86	88	74	72	75	80	83	80	85	86	78	84	83	78	83	84	83	82	69	62	60	55	56	53	62	55	74.9
	Minimum ..	42	41	48	55	55	62	59	58	48	44	45	48	55	56	58	47	50	55	47	52	54	54	53	53	55	54	45	46	46	46	46	50.9
Maryville	Maximum..	62	79	84	79	85	89	82	72	73	79	79	72	76	85	83	81	80	76	76	83	85	82	69	60	54	54	52	61	58	62	50	73.0
	Minimum ..	42	53	62	50	53	63	63	58	50	52	53	56	50	57	57	56	53	52	39	46	52	53	55	54	46	47	38	38	35	44	48	50.8
Mexico /	Maximum..	60	80	84	80	83	87	84	82	75	76	81	85	80	88	87	83	85	82	78	84	84	84	82	70	63	64	58	55	53	67	55	76.1
	Minimum ..	42	45	51	57	58	61	60	56	51	42	46	55	59	61	60	47	49	51	47	46	54	54	58	58	59	57	46	48	48	44	48	52.2
Moberly / .... 3½ mi. NE	Maximum..	63	80	84	79	83	85	85	80	72	75	78	82	79	90	85	79	83	82	77	83	83	83	81	69	62	60	57	56	53	65	56	75.1
	Minimum ..	44	46	55	56	59	62	61	58	50	44	47	50	57	61	53	49	53	53	48	50	56	59	61	57	57	56	48	48	49	43	45	52.7
Oregon	Maximum..	67	83	84	86	89	86	83	71	74	82	76	72	78	85	83	82	80	78	79	85	85	85	67	61	54	54	56	64	65	55	56	74.4
	Minimum ..	46	58	60	54	64	67	68	58	54	56	57	55	51	62	61	57	51	51	45	59	56	59	57	53	48	45	45	40	39	46	50	53.9
St. Charles	Maximum..	58	77	86	76	79	85	84	83	76	74	79	86	81	87	84	85	85	83	81	85	86	87	81	76	64	66	63	55	55	64	59	76.5
	Minimum ..	46	46	53	58	57	57	58	56	52	45	47	56	58	57	58	54	61	56	55	48	53	54	53	58	60	60	51	49	46	46	52	53.5
St. Joseph Airport	Maximum..	69	83	85	86	90	90	90	69	80	84	83	73	80	87	86	85	84	79	80	88	85	84	66	63	55	57	58	65	67	58	57	76.3
	Minimum ..	47	59	60	52	57	66	66	60	54	55	56	57	52	58	59	58	55	50	40	50	54	56	58	54	50	41	41	40	35	47	50	52.8
Trenton	Maximum..	62	83	84	83	86	89	90	82	75	79	81	78	81	87	85	83	85	80	79	86	85	84	76	70	60	57	58	63	55	57	58	76.2
	Minimum ..	43	50	59	53	60	61	61	63	52	53	54	56	52	57	58	49	53	54	46	47	53	55	60	56	52	51	43	45	42	43	50	52.6
Unionville /	Maximum..	55	79	81	80	84	86	88	75	73	75	78	80	76	85	84	82	83	80	76	82	83	82	74	65	55	56	55	55	53	57	56	73.3
	Minimum ..	35	41	52	52	42	46	60	60	48	45	45	47	50	51	56	48	52	53	44	43	47	52	53	51	51	51	44	44	45	46	47	48.4
Warrenton	Maximum..	60	79	89	83	80	85	84	83	81	80	79	86	83	89	85	83	86	83	82	86	85	88	82	73	70	62	62	55	58	65	58	77.5
	Minimum ..	41	46	56	57	58	59	55	51	50	39	44	55	56	57	54	45	59	49	51	45	54	55	54	57	58	57	47	47	46	45	52	51.6
Keokuk, Iowa	Maximum..	54	76	82	77	78	85	85	72	73	73	78	84	76	87	88	87	87	85	78	83	84	86	82	64	63	62	54	55	56	57	54	74.4
	Minimum ..	44	47	53	58	59	63	63	53	49	48	48	60	59	62	63	62	67	62	54	52	63	63	58	56	57	54	48	49	49	47	51	55.5
Southwestern Division																																	
Clinton	Maximum..	68	84	85	84	90	90	84	84	80	84	85	89	85	90	90	89	72	81	78	87	86	87	85	71	60	57	62	67	70	79	62	79.5
	Minimum ..	50	52	56	60	55	61	60	61	58	55	52	55	60	59	54	50	55	58	48	45	52	54	57	59	56	50	48	45	41	49	52	53.8
Eldon	Maximum..	65	84	82	85	84	85	83	82	76	78	81	85	83	85	86	82	79	81	79	82	85	83	81	75	65	62	63	68	68	75	75	78.3
	Minimum ..	42	50	54	58	57	67	57	57	56	51	49	56	55	60	58	47	56	55	50	47	52	56	55	55	56	56	45	48	41	44	51	52.9
Harrisonville /	Maximum..	69	84	85	86	90	91	87	83	81	84	83	84	85	87	87	87	88	84	81	86	86	85	80	69	56	61	61	68	70	70	55	79.1
	Minimum ..	45	49	54	59	58	60	62	63	56	57	55	58	55	56	60	55	55	54	46	49	52	54	58	59	54	51	46	44	41	41	49	53.4
Jefferson City	Maximum..	65	82	84	80	83	87	84	82	77	77	81	87	83	88	87	80	84	83	79	85	85	85	83	73	64	65	61	66	62	69	62	77.8
	Minimum ..	44	49	54	57	56	62	56	53	54	45	44	49	57	54	54	42	50	50	50	38	47	49	52	58	55	56	46	50	41	46	54	50.7
Joplin Airport	Maximum..	78	83	82	85	93	89	85	84	84	85	85	86	89	88	88	88	83	82	79	86	86	86	85	76	62	59	64	71	74	76	67	80.9
	Minimum ..	50	55	60	62	60	64	60	59	56	55	57	61	60	58	59	57	59	58	49	50	56	57	62	60	55	52	47	46	42	53	52	55.8
Lamar /	Maximum..	75	83	83	85	91	89	85	82	83	85	85	88	89	89	90	89	72	85	80	88	87	88	83	75	60	60	65	74	77	80	63	80.9
	Minimum ..	45	49	53	60	54	56	59	56	55	55	54	56	55	55	56	52	59	59	51	44	44	53	59	60	54	51	44	42	37	39	54	52.3
Lebanon	Maximum..	65	82	82	83	85	84	86	82	80	80	82	85	87	88	87	86	79	82	77	84	85	84	80	79	74	63	62	70	73	76	70	79.4
	Minimum ..	42	43	56	55	57	56	58	53	61	51	52	52	52	69	60	50	..	..	..	..	..	..	54	58	57	55	45	47	38	47	54	^{f}52.9
Lexington /	Maximum..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
	Minimum ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
Marshall	Maximum..	63	80	84	80	85	86	84	80	75	77	81	85	80	87	86	83	82	80	78	84	84	84	81	69	66	57	58	63	62	66	63	76.5
	Minimum ..	46	51	58	56	58	63	60	60	53	53	52	58	57	62	60	52	52	52	48	49	55	56	57	51	55	51	47	46	40	44	51	53.3
Mountain Grove	Maximum..	66	78	81	82	80	81	81	81	78	79	78	85	86	86	82	80	79	80	80	82	82	82	78	77	74	63	62	75	70	73	67	77.7
	Minimum ..	42	47	55	61	59	58	58	52	50	51	59	59	62	60	60	48	59	57	55	49	59	57	59	58	58	57	49	45	39	49	55	54.4
Neosho	Maximum..	77	83	82	85	92	90	85	85	84	85	84	87	88	88	89	88	82	83	80	86	80	85	84	80	70	63	65	73	75	77	72	81.5
	Minimum ..	49	52	60	61	53	59	57	55	50	49	52	55	54	53	52	48	54	56	42	40	49	50	56	59	58	55	44	40	36	51	55	51.7
Nevada	Maximum..	77	84	84	86	93	91	93	86	85	87	86	88	88	89	90	90	78	85	82	87	87	87	82	74	68	60	65	72	77	80	72	82.4
	Minimum ..	49	52	59	61	55	61	60	58	56	55	54	56	56	57	58	51	57	57	42	45	52	54	58	60	57	52	45	43	37	50	54	53.6
Sedalia	Maximum..	64	81	84	80	86	86	83	81	76	79	81	85	82	86	86	84	79	80	76	84	83	84	81	70	68	59	59	65	67	71	67	77.3
	Minimum ..	45	55	57	57	59	63	62	60	56	55	57	60	57	62	62	49	58	55	44	49	57	59	60	57	56	54	45	47	38	47	52	54.6
Springfield....4 mi. NW	Maximum..	65	81	81	81	83	86	82	79	78	81	80	84	87	87	85	85	76	78	76	83	84	81	78	78	64	60	61	69	73	76	63	77.6
	Minimum ..	45	48	56	60	58	60	59	59	53	56	55	57	57	58	59	49	60	57	50	49	55	57	59	60	58	53	46	46	40	52	50	54.2
Warrensburg	Maximum..	66	82	84	83	89	89	84	83	78	82	83	84	81	88	87	86	79	82	79	85	84	85	85	70	69	59	61	67	69	74	68	78.9
	Minimum ..	47	55	58	58	60	63	64	64	56	55	57	61	58	62	62	53	58	57	50	53	56	60	60	58	55	53	47	45	40	47	52	55.6
Southeastern Division																																	
Arcadia /	Maximum..	66	80	84	74	79	83	85	87	84	80	86	87	90	91	87	90	86	87	90	86	90	86	70	87	70	70	66	70	65	69	60	80.2
	Minimum ..	37	39	43	54	56	52	49	49	52	41	40	42	52	52	45	50	46	53	56	46	45	46	47	47	58	58	51	47	39	39	44	47.6
Birch Tree.... ½ mile E	Maximum..	67	78	83	78	79	82	83	82	80	78	81	86	89	89	84	81	83	83	84	85	85	86	76	..	..	..	74	73	73	72	64	^{c}79.9
	Minimum ..	38	40	50	61	61	52	52	52	50	47	43	51	51	55	52	48	52	54	55	47	48	48	49	..	..	..	50	41	36	42	55	^{c}49.3
Caruthersville	Maximum..	67	80	84	82	78	82	85	82	76	79	85	84	89	86	84	83	87	79	80	85	87	85	78	84	80	74	69	74	70	70	65	79.8
	Minimum ..	46	49	60	62	59	58	62	61	57	57	59	64	59	63	57	62	61	65	59	60	59	59	61	64	64	62	60	47	47	50	55	58.3
Crystal City	Maximum..	60	82	86	79	82	86	86	86	77	78	82	90	89	87	85	84	88	85	87	89	89	88	80	81	74	67	67	56	63	65	60	79.3
	Minimum ..	42	42	47	57	55	52	52	50	54	41	43	51	54	50	47	50	56	53	55	52	49	48	48	58	61	60	52	49	49	42	51	50.6
Doniphan	Maximum..	72	82	86	74	78	85	87	84	87	88	84	86	90	89	86	78	84	82	85	87	86	88	70	86	79	65	72	76	73	75	67	81.0
	Minimum ..	41	61	48	55	60	48	51	52	48	47	46	54	52	55	47	49	53	55	52	51	52	47	50	57	59	60	54	41	38	43	55	51.0
Farmington	Maximum..	64	78	83	74	80	82	82	80	76	76	81	86	86	87	84	84	85	84	82	85	85	85	73	80	70	64	63	69	61	68	59	77.3
	Minimum ..	37	43	51	54	56	55	53	53	56	43	43	53	53	54	47	49	54	53	55	46	51	48	49	58	57	57	49	44	44	44	51	50.3
Jackson	Maximum..	67	81	85	78	80	83	87	87	79	81	84	87	91	89	88	87	86	82	87	87	87	88	79	86	76	67	68	74	67	70	62	80.6
	Minimum ..	39	41	50	58	61	51	54	55	59	46	49	54	54	57	46	53	59	60	58	52	49	49	47	61	60	61	56	48	47	42	52	52.5
Poplar Bluff	Maximum..	70	80	85	75	79	83	86	86	82	82	86	89	90	89	88	84	85	80	85	88	89	89	76	85	78	65	70	75	73	73	64	80.9
	Minimum ..	42	42	48	55	60	49	53	58	55	52	51	54	53	58	51	55	55	57	54	55	50	49	51	61	60	61	56	44	41	43	54	52.5
Rolla /	Maximum..	64	81	81	77	81	84	82	80	72	77	80	79	79	87	75	81	80	80	75	76	84	82	79	73	60	63	60	68	63	71	59	75.3
	Minimum ..	41	47	59	55	57	59	57	56	57	49	48	56	60	58	58	51	57	56	55	50	55	54	54	58	57	57	47	47	43	43	54	53.4
St. Louis	Maximum..	58	78	85	75	78	84	84	83	74	76	79	87	80	86	85	83	88	85	80	86	86	86	82	78	67	67	60	55	54	63	56	76.4
	Minimum ..	46	48	56	58	56	59	60	62	55	50	56	63	64	65	64	63	66	63	61	61	62	64	62	63	61	60	51	50	49	46	51	57.9
Salem	Maximum..	65	80	82	79	80	83	83	80	72	78	80	85	83	88	85	79	83	80	78	83	83	83	75	80	67	65	60	68	69	71	63	77.1
	Minimum ..	40	46	56	56	57	59	57	48	54	43	44	53	55	55	52	48	55	55	52	45	54	52	51	56	57	55	45	45	37	42	54	50.9
Sikeston /	Maximum..	67	79	85	77	79	83	84	85	78	79	86	87	89	87	86	87	86	77	82	86	87	87	80	85	78	67	68	74	67	71	58	79.7
	Minimum ..	40	44	50	60	59	57	57	59	56	50	53	57	58	60	50	53	59	62	59	56	55	55	53	56	60	62	58	47	45	44	46	54.2
Union ....1½ mi. SE	Maximum..	62	82	86	76	81	85	84	83	77	76	81	88	83	90	86	83	88	83	82	87	88	88	83	78	65	65	62	57	59	66	60	77.9
	Minimum ..	40	42	46	57	56	53	54	50	54	40	40	49	53	54	52	46	56	42	53	41	46	46	48	56	59	59	49	48	49	46	52	49.5
West Plains	Maximum..	69	80	83	79	81	83	83	81	80	79	81	86	88	89	84	84	80	82	82	86	86	85	72	81	66	63	66	72	71	75	64	78.7
	Minimum ..	42	42	50	59	57	52	53	53	50	47	45	51	54	55	47	47	52	54	53	49	49	49	50	59	60	59	43	43	37	46	54	50.4
Cairo, Ill.	Maximum..	65	78	83	75	77	80	83	82	77	76	82	81	87	84	85	84	83	76	80	83	84	84	79	83	77	70	66	72	63	68	58	77.6
	Minimum ..	44	48	61	60	60	59	61	61	61	56	58	65	61	61	55	63	65	64	62	62	58	58	55	65	63	62	52	51	51	46	52	58.1

/ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs. ^{a}, ^{b}, ^{c}, etc., number of days missing, for example, ^{b} indicates two days missing. Italics data interpolated. § Partly interpolated. (C) Airport.



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CLIMATOLOGICAL DATA

19

MISSOURI SECTION

H. F. WAHLGREN
ST. LOUIS, MO.

VOL. LI | NOVEMBER 1947 | No. 11

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GENERAL SUMMARY

November was a rather cold, cloudy, damp, and disagreeable month with unusually frequent precipitation.

It was the coldest November since 1937 and averaged 6.0° lower than the average for November a year ago. Except for a few days at the beginning of the month and an occasional day or two at infrequent intervals thereafter, daily average temperatures were below normal. However, no unusually low temperatures were recorded at any time during the entire month, the extreme lowest for the State being only 9°. Likewise, there were no unusually high temperatures during November. The 6th was the warmest day and the 30th the coldest during the month, as a rule. The first general killing frost and hard freeze occurred on the 8th, bringing to a close an unusually long growing season for most stations. However, some stations in the more southern portions of the State did not have a killing frost until the 11th or 12th, or even later. Average temperatures for the month, by divisions, with departures from normal were as follows: Northern, 37.8°, —4.4°; Southwestern, 42.2°, —3.7°; Southeastern, 43.1°, —2.9°; for the State, 41.0°, —3.4°. Not a single individual station had a monthly mean temperature normal, or above, during the month.

Precipitation during November was quite frequent and occurred as both rain and snow, but mostly in the form of rain. The snowfall this month was of little consequence, except at a few northernmost stations. As a rule, the snow melted quickly, except where the heavier falls occurred and there it covered the ground for four or five days at a time at a few stations. Many stations in the southern half of the State reported no snowfall, while only a very few stations in that area reported more than a trace, during the month. Distribution of the month's precipitation was quite irregular, ranging from a total of 5.92 inches at Caruthersville to 1.26 inches at Waynesville. The distribution by divisions, with departures from normal, was as follows: Northern, 2.22 inches, exactly normal; Southwestern, 2.27 inches, —0.39 inch; Southeastern, 3.47 inches, +0.21 inch; for the State, 2.65 inches, —0.06 inch. Some stations reported measurable precipitation on as many as 14 or 15 days during the month, particularly in the Southeastern Division. The State average was 11 days, or 5 days more than normal for November.

Sunshine was decidedly deficient this month with an average of 15 cloudy days, for the State as a whole.

There were no floods in any of the larger streams or rivers of the State and no damaging storms worthy of special mention were reported.

The cold, cloudy, damp weather during most of November was generally unfavorable for seasonal outdoor activities, and alternate thawing and freezing and frequent precipitation delayed and hampered the work of getting crops out of the fields. Wheat seeding was mostly completed early in the month and a larger acreage than usual was sown to that crop this fall. The frequent precipitation and absence of unusually low temperatures were very favorable for wheat and permanent pastures,

(Continued on page 83)

PRESSURE, WIND, HUMIDITY, AND SUNSHINE

Stations	Sea-level pressure, extremes-inches: Highest	Date	Lowest	Date	Wind: Average hourly velocity	Maximum velocity ¶	Direction of maximum	Date	Relative humidity: 12:30 a. m.	6:30 a. m.	12:30 p. m.	6:30 p. m.	Percentage of sunshine	Degree days
Columbia	30.64*	30	29.47*	7	7.5	22	sw.	7	77*	80*	63*	67*	32	721
K. C. Airport	30.64	29	29.40	6	10.5	34	nw.	27	80	79	63	66	38	750
St. Joseph Ap't	30.64	29	29.37	6	8.2	26	w.	27	82	81	63	75	37	811
St. Louis	30.66*	30	29.47*	7	10.9	36	sw.	10	82*	80	68	74*	35	702
Springfield	30.60	30	29.49	14	12.2	37	s.	6	84	87	71	74	38	696
Cairo, Ill.	30.64	30	29.59	15	8.6	23	sw.	7	..	87	64	..	43	584
....	.....	..	.....	..	....	..	......	..	..	..	..	..	..	..

* Data for Airport station. ¶ For 5-minute period.

COMPARATIVE DATA FOR NOVEMBER

Year	Temperature: Average for State	Highest	Lowest	Precipitation: Average for State	Average, Northern Division	Average, Southwestern Division	Average, Southeastern Division	Snowfall, Average for State	Number of days: Precip. .01 inch or more	Clear	Partly cloudy	Cloudy
1888	41.6	87	15	3.39	2.57	2.95	4.64	....	7	..	..	..
1889	39.9	76	6	3.52	3.16	3.12	4.29	0.6	7	..	..	..
1890	46.5	80	14	2.38	1.96	2.48	2.70	T.	5	..	..	..
1891	39.6	82	− 7	4.14	2.67	3.24	6.51	....	8	..	..	..
1892	40.1	79	9	2.75	2.17	2.14	3.95	1.0	6	11	7	12
1893	40.9	79	− 1	1.70	1.32	1.60	2.17	0.3	4	14	9	7
1894	41.0	80	3	1.56	1.59	1.71	1.39	T.	4	15	9	6
1895	41.6	82	− 4	3.60	2.62	3.42	4.76	3.2	8	10	7	13
1896	42.3	82	− 5	2.43	1.47	2.30	3.53	0.2	6	11	7	12
1897	43.4	82	− 3	2.63	1.92	2.02	3.96	T.	6	13	8	9
1898	39.9	79	− 8	2.32	2.03	2.43	2.50	2.3	6	14	8	8
1899	49.5	82	16	2.02	1.38	2.00	2.67	0.2	7	11	9	10
1900	43.7	84	7	2.99	1.52	2.71	4.75	0.2	6	15	7	8
1901	43.6	84	9	1.48	0.99	1.63	1.82	0.3	4	17	7	6
1902	50.1	85	18	3.73	3.05	3.64	4.51	0.4	9	8	9	13
1903	40.9	79	2	1.27	1.24	1.09	1.48	1.1	5	13	8	9
1904	46.3	83	11	0.22	0.18	0.24	0.24	T.	2	21	5	4
1905	45.8	83	2	1.87	2.36	1.35	1.89	T.	6	18	6	6
1906	42.5	88	− 3	3.56	2.55	2.68	5.44	5.0	8	12	6	12
1907	43.8	88	11	2.24	1.39	1.91	3.43	T.	4	19	4	7
1908	47.6	87	9	3.90	2.70	4.67	4.33	0.2	8	15	7	8
1909	53.6	87	11	4.32	3.92	4.98	4.05	0.4	8	12	7	11
1910	42.0	83	11	0.35	0.31	0.22	0.52	0.1	3	15	8	7
1911	39.1	83	− 3	2.63	2.07	2.78	3.04	1.1	7	13	6	11
1912	45.9	85	12	1.50	1.46	1.31	1.73	0.1	3	20	5	5
1913	51.7	80	11	2.71	2.61	2.69	2.83	T.	7	10	8	12
1914	48.6	89	2	0.69	0.36	0.64	1.08	0.1	3	19	6	5
1915	49.5	87	12	2.83	2.30	2.78	3.42	0.1	5	16	7	7
1916	46.9	85	3	2.46	2.25	2.63	2.51	0.1	4	19	4	7
1917	46.1	80	8	1.23	0.10	1.61	1.98	T.	3	14	5	11
1918	44.9	85	12	3.26	2.85	4.14	2.78	1.2	6	15	4	11
1919	42.2	78	2	3.57	3.06	3.19	4.45	1.0	6	15	5	10
1920	40.9	82	6	1.06	1.64	0.82	0.73	T.	6	12	6	12
1921	45.6	84	10	3.11	0.89	1.59	6.85	0.4	5	13	7	10
1922	47.8	84	15	3.68	3.70	3.97	3.38	T.	7	16	6	8
1923	45.1	79	14	2.25	1.39	2.79	2.57	3.0	6	15	6	9
1924	46.7	88	4	1.78	1.16	2.08	2.09	0.5	4	15	8	7
1925	42.8	80	− 2	3.05	1.74	2.78	4.63	2.0	6	16	6	8
1926	39.6	78	0	3.01	2.13	2.86	4.04	4.3	7	11	7	12
1927	46.8	89	12	3.66	2.07	3.78	5.13	0.9	7	6	9	15
1928	44.6	79	9	5.02	5.91	4.88	4.26	0.5	10	13	4	13
1929	39.0	78	− 8	1.46	1.40	1.00	1.98	2.1	6	11	8	11
1930	45.8	83	8	2.93	2.94	3.28	2.56	T.	5	18	5	7
1931	52.2	87	17	5.42	5.58	5.32	5.35	1.4	11	10	5	15
1932	39.5	75	− 9	1.87	1.55	2.11	1.95	4.5	5	16	5	9
1933	45.9	83	7	0.93	0.47	0.96	1.37	0.2	4	16	6	8
1934	48.5	84	16	5.71	5.62	5.84	5.67	4.6	10	14	5	11
1935	42.2	82	10	4.16	4.52	4.69	3.28	0.1	10	8	4	18
1936	42.2	79	0	1.89	1.15	2.04	2.49	1.4	3	21	4	5
1937	41.0	90	− 7	1.85	1.58	1.87	2.11	4.1	7	15	6	9
1938	45.9	89	2	4.28	4.01	4.64	4.20	1.3	6	17	5	8
1939	43.5	78	12	2.58	2.36	2.97	2.42	0.0	7	13	6	11
1940	42.2	83	− 2	3.46	2.77	3.31	4.29	1.2	9	12	7	11
1941	45.5	85	10	2.29	2.00	2.32	2.55	1.9	7	14	5	11
1942	47.9	82	6	4.27	3.81	3.42	5.58	0.8	11	11	6	13
1943	42.7	81	9	0.93	0.97	0.71	1.12	0.4	3	17	7	6
1944	47.0	88	1	2.34	2.89	1.98	2.16	0.2	9	7	8	15
1945	46.3	86	6	1.39	0.95	0.70	2.52	0.2	5	14	8	8
1946	47.0	81	13	6.44	3.57	8.03	7.73	T.	10	13	5	12
1947	41.0	73	9	2.65	2.22	2.27	3.47	0.5	11	8	7	15
....	....	..	....	....	....	....	....	....	..	..	..	..
Period	**44.4**	**90**	**− 9**	**2.71**	**2.22**	**2.66**	**3.26**	**1.0**	**6**	**14**	**6**	**10**

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Climatological Data for November 1947

Stations	Counties	Elevation, feet	Temperature, in degrees Fahr.							Precipitation, in inches						Number of days				Prevailing direction of wind	Observers
			Length of record, years	Mean	Departure from the normal	Highest	Date	Lowest	Date	Length of record, years	Total	Departure from the normal	Greatest in 24 hours	Date	Total snowfall, unmelted	With precip., .01 inch or more	Clear	Partly cloudy	Cloudy		
Northern Division																					
Albany	Gentry	930	6	36.8	......	62	6	11	11†	18	2.10§	+0.39	0.94	14-15	6.0	10	9[a]	8[a]	12[a]	nw.	William J. Butler
Amity	DeKalb	1,007	1	37.5	......	63	6	13	11†	12	2.43	−0.25	0.76	14-15	2.7	10	5	7	18	nw.	O. M. Colhour
Bethany	Harrison	916	52	37.1	− 5.7	62	7	11	11†	54	1.64	−0.40	0.51	3-4	*3.5*	9	10	7	13	nw.	B. A. McGregor
Brookfield	Linn	767	6	35.4	......	66	4	13	30	6	2.04	......	0.62	10	0.2	10	8	5	17	n.	G. F. Breen
Brunswick	Chariton	652	66	38.4	− 3.2	64	4†	15	30	68	1.50	−0.69	0.39	10	T.	9	8	4	18	nw.	O. K. Benecke
Canton, Lock & Dam 20	Lewis	488	9	38.8	− 3.9	66	3	9	30	17	3.42	+0.71	1.00	31-1	1.0	8	5	7	18	nw.	Lockmaster
Carrollton	Carroll	754	1	39.1	......	65	6	13	30	1	2.19	......	0.76	14-15	*0.3*	10	11	4	15	w.	Harold E. Finley
Chillicothe 2 mi ESE(C)	Livingston	771	38	37.1	− 4.2	63	6	14	30	41	2.59	+0.47	0.79	14-15	1.4	11	4	8	18	w.	Civil Aeronautics Adm.
Columbia	Boone	740	57	41.0	− 3.1	67	6	16	30	57	1.65	−0.55	0.62	14-15	0.1	13	6	5	19	w.	U. S. Weather Bureau
Conception	Nodaway	1,108	58	36.6	− 4.8	60	6	13	11	63	1.93	+0.19	0.71	14-15	4.0	8	7	8	15	nw.	Fr. Adelhelm Hess
Edgerton	Platte	856	27	37.5	− 4.3	62	3†	13	30	44	2.40	+0.43	0.71	14	*0.3*	11	5	10	15	sw.	Leroy H. Mindrup
Elsberry	Lincoln	449	16	37.9§	− 5.5	61	4	9	30	16	3.23	+0.41	1.24	31-1	1.0	10	8	5	17	nw	Soil Conservation Service
Fayette	Howard	760	67	39.3	− 2.9	66	6	12	30	64	2.12	+0.02	0.69	10-11	0.5	12	10	3	17	w.	Irvin E. Schnell
Fulton	Callaway	818	59	39.4	− 4.8	66	6	14	30	55	1.96	−0.35	0.60	31-1	*0.2*	11	12	6	12	w.	Frank E. Hillgartner
Grant City	Worth	1,134	43	35.8	− 6.1	59	6	14	11†	55	1.78§	−0.07	0.92	14	7.0	8	9	5	16	e.	J. Homer Korn
Hannibal	Marion	759	55	37.6	− 4.5	61	6	10	30	63	1.88	−0.18	0.80	14-15	T.	7	5	11	14	nw.	Hannibal Water Dept.
Kansas City Airport	Jackson	741	58	40.0	− 3.7	67	6	21	30	58	1.60	−0.62	0.73	14	T.	9	7	6	17	ne.	U. S. Weather Bureau
Kansas City Univ.	Jackson	908	9	40.7	− 4.1	68	6	17	30	9	1.91	+0.03	0.71	14	T.	10	9	4	17	nw.	University of Kansas City
Kidder	Caldwell	1,020	55	37.2	− 4.6	64	6†	14	30	59	2.26	+0.11	0.90	14-15	1.5	10	10	2	18	se.	Mrs. Geraldine Terry
Kirksville	Adair	969	58	36.8	− 3.8	60	4†	12	30	65	2.09	−0.03	0.70	14-15	2.0§	11	13	4	13	se.	Dow Jones
Kirksville Airport	Adair	970	8	35.8	......	61	4	12	30	8	2.07	......	0.76	14-15	1.9	10	3	8	19	w.	Civil Aeronautics Adm.
Lathrop	Clinton	1,071	0	37.8	......	64	6	15	30	0	2.52	......	0.72	10	T.	8	10	10	10	nw.	E. L. Fisher
Louisiana	Pike	469	53	39.9	− 4.2	61	2†	10	30	66	2.25	−0.21	0.47	14-15	*0.5*	13	8	6	16	ne.	Stark Bro's Nurseries
Macon	Macon	875	48	36.4§	− 6.4	63	4†	11	30	54	1.88	−0.31	0.62	14-15	1.0	7	7	3	20	ne.	John W. Atwell
Maryville	Nodaway	1,169	57	35.2	− 4.2	61	6	9	24	53	2.01	+0.09	0.96	14	5.3	8	7	3	20	nw.	R. B. Montomery
Memphis	Scotland	787	8	35.4	......	62	4	10	30	17	2.38§	−0.61	0.54	14-15	6.0	8	7	6	17	nw	John W. Alexander
Mexico	Audrain	800	58	37.8	− 5.1	64	6	12	30	69	1.90	−0.33	0.67	14-15	0.2	12	5	20	5	nw	Wendell W. Palmer
Moberly .....3½ mi. NE	Randolph	860	10	37.4	− 4.5	64	4†	14	30	10	2.18	−0.36	0.99	9	T.	6	7	7	16	nw.	Robert A. Berg
New Florence. 1 mi SE	Montgomery	885	4	38.7	......	63	6	14	30	5	1.63	......	0.47	10	0.4	13	5	8	17	w.	U. S. Weather Bureau
Oregon	Holt	1,048	91	36.6	− 3.9	62	6	15	11†	91	1.99§	+0.01	0.87	14	3.7	8	5	4	21	n.	James M. Curry
Polo	Caldwell	1,000	1	36.8	......	64	6	14	30	1	2.19	......	0.76	14-15	0.4	11	10	4	16	ne.	F. B. Albright
St. Charles	St. Charles	520	59	41.0	− 4.3	62	6	15	30	69	2.74	+0.63	0.88	31-1	*0.3*	11	5	12	13	w.	Mrs. Myrtle Bregel
St. Joseph Airport	Buchanan	957	37	38.0	− 3.5	64	6	17	30	75	2.62	+1.04	0.99	14	2.2	10	7	6	17	w.	U. S. Weather Bureau
Salisbury	Chariton	723	1	39.2	......	65	4	13	30	1	2.05	......	0.70	10	*T.*	11	7	6	17	e.	David H. Robertson
Saverton, Lock No. 22.	Ralls	472	9	39.6	......	67	6	11	30	9	2.46	−0.69	0.75	10	*T.*	8	9	6	15	nw.	Lockmaster
Shelbina	Shelby	779	6	38.6[a]	......	66[a]	4	..	..	54	2.14	+0.04	0.82	14-15	T.	8	9[a]	4[a]	16[a]	w.	Guyman Hatcher
Steffenville	Lewis	650	49	38.0	− 5.5	64	4	10	30	54	2.39	+0.20	0.86	14-15	1.5	9	10	4	16	se.	Mrs. Fannie V. Gross
Tarkio	Atchison	916	44	35.8	− 4.3	62	6	12	11	53	1.35	−0.39	0.63	14	1.2	8	6	5	19	nw.	Civil Aeronautics Adm.
Trenton	Grundy	822	51	38.6	− 3.6	62	6	9	30	52	2.26	+0.14	0.96	14-15	1.8	11	5	9	16	ne.	W. H. Estes
Unionville	Putnam	1,062	54	34.0	− 6.3	60	3†	9	30	54	2.09	−0.11	0.81	14	7.7	7	2	8	20	nw.	George D. Choate
Vandalia	Audrain	766	3	39.3	......	63	6	11	30	8	1.29	......	0.90	31-1	T.	6	11	7	12	w.	Mrs. Naomi K. Stoutz
Warrenton	Warren	816	65	39.6	− 3.6	64	6	10	30	57	2.79	+0.17	0.93	6-7	T.	12	9	9	12	e.	W. T. Zimmerman
Keokuk, Iowa	Lee, Ia.	574	75	37.0	− 4.1	61	4	13	30	75	2.19	+0.25	0.70	10	1.0	11	6	9	15	nw.	U. S. Weather Bureau
Division means	**and extremes**	.....	..	**37.8**	**− 4.4**	**68**	**6**	**9**	**24†**	..	**2.22**	**0.00**	**1.90**	**31-1**	**1.6**	**10**	**7**	**7**	**16**	**nw.**	
Southwestern Division																					
Anderson ...1½ mi SW	McDonald	1,000	43	41.8[b]	− 7.5	73[a]	4†	15[b]	30	43	2.06	−1.29	0.76	14	0	11	14[b]	2[b]	12[b]	sw.	Samuel G. Chamberlain
Appleton City. 2 mi. W	Bates	813	52	42.2	− 3.8	70	6	16	30	55	1.49	−0 81	0.53	14	0.2	12	12	9	9	nw.	F. Paul Eye
Bolivar	Polk	1,071	44	43.3	− 3.5	70	6	18	30	52	1.89	−0.69	0.57	14	*T.*	12	9	8	13	nw.	Southwest Baptist College
Boonville	Cooper	650	9	38.4	− 4.1	66	6	14	30	70	1.70	−0.51	0.46	14	*T.*	12	8	3	19	nw.	Boonville Water Dept.
Butler	Bates	865	1	42.2	......	68	6	17	30	6	2.07	......	0.65	14	*T.*	12	8	6	16	e.	Harley W. Johnson
Camdenton	Pulaski	940	1	43.7	......	70	6†	18	30	1	1.62	......	0.32	10	0	8	13	2	15	sw.	Mo. Conservation Com.
Carthage	Jasper	962	13	44.4	......	73	6	23	30	23	2.17	......	0.65	14	0	8	4	19	7	nw.	Carthage W. and E. Plant
Clinton	Henry	786	54	41.4	− 5.6	69	6	17	30	60	1.75	−0.41	0.64	14	T.	8	10	9	11	e.	U. S. Weather Bureau
Eldon	Miller	934	52	41.6[c]	− 3.2	68[c]	6	15[c]	30	48	1.44	−1.01	0.44	14-15	T.	11	12	9	9	ne.	Arthur Rothwell
Harrisonville	Cass	904	69	39.6	− 2.9	67	6	19	23	72	2.01	−0.13	0.61	14	*T.*	12	10	4	16	nw.	Jeffrey B. Patterson
Jefferson City	Cole	557	57	40.7	− 3.4	68	6	14	30	65	2.05	−0.34	0.83	4	*T.*	12	8	6	16	sw.	K. W. O. S. Radio Farm
Joplin Airport	Jasper	988	25	43.4	− 4.9	71	6	20	30	42	2.42	−0.35	0.74	14	0	11	5	7	18	n.	Civil Aeronautics Adm.
Lakeside	Miller	595	16	42.6	− 1.9	70	6	15	30	16	1.73	−1.98	0.46	14	*T.*	12	11	4	15	sw.	W. S. Frame
Lamar	Barton	980	59	41.9	− 4.4	71	6	16	30	66	2.14	−0.39	0.65	21	0	9	10	6	14	nw.	Mrs. Marie Mann
Lebanon	Laclede	1,265	59	42.5	− 3.1	66	4†	14	30	60	1.54	−1.10	0.56	14	0	9	7	12	11	sw.	Mrs. Rosa E. Montelius
Lexington	Lafayette	688	62	38.8	− 5.4	67	6	17	30	63	1.85	−0.27	0.79	14	0.2	11	9	6	15	w.	William H. Cullon
Lockwood	Dade	1,078	41	44.2	− 2 8	71	6	20	30	51	1.65	−1.19	0.44	14	0	6	9	8	13	se.	Hubert A. Nieman
Marshall	Saline	779	60	39.9	− 5.3	66	6	15	30	57	1.96	−0.36	0.85	10	*T.*	8	12	6	12	s.	Thomas A. Reid
Monett	Barry	1,317	0	42.2	......	68	6	20	30	0	1.75	......	0.69	14	0	12	9	8	13	nw.	Mo. Univ. Fruit Exp. Sta.
Mountain Grove	Wright	1,463	46	43.0	− 2.9	65	6	16	30	50	3.29	+0.34	0.74	14	T.	12	8	8	14	nw.	Mo. Fruit Exp. Station
Mount Vernon	Lawrence	1,174	35	44.2	− 1.6	71	6	18	30	47	1.98	−0.96	0.66	14	*T.*	8	10	3	17	n.	James C. Williamson
Neosho	Newton	1,011	60	44.9	− 2.4	71	6	17	30	64	2.10	−1.20	0.63	13-14	0	13	7	11	12	ne.	U. S. Fisheries Station
Nevada	Vernon	862	54	43.6	− 1.2	70	6	18	30	55	1.77	−0.38	0.63	14-15	0	11	11	2	17	nw.	Henry Kraft
Ozark Beach	Taney	700	7	44.4[a]	......	73[a]	6	19[a]	30	22	2.95	+0.18	0.93	10	0	11	8	7	15	w.	Empire District Elec. Co.
Sedalia	Pettis	910	34	41.0	− 2.3	67	6	15	30	36	1.71	+0.09	0.57	14-15	0.5	12	10	4	16	sw.	Dr. J. E. Cannaday
Seligman	Barry	1,542	46	43.8	− 3.5	67	6	20	30	44	2.47	−0.62	1.35	14	0	9	12	7	11	w.	Floyd E. Fawver
Seymour ....4 miles NE	Webster	1,642	41	40.8	− 5.1	65	6	18	30	41	4.18	+1 29	1.72	1-2	*T.*	8	7	4	19	nw.	Ira H. Hailey
Springfield...4 mi. NW	Greene	1,265	59	41.9	− 3.1	66	6	18	30	59	1.68	−1.11	0.48	4	0.4	12	6	9	15	w.	U. S. Weather Bureau
Sweet Springs	Saline	700	6	40.4	......	67	6	12	30	6	2.56	......	1.15	10	*T.*	12	9	7	14	nw.	H. F. Nelson
Warrensburg	Johnson	878	60	41.0	− 4.0	68	6	18	30	67	2.15	−0.07	0.62	10	T.	12	11	4	15	e.	Central Teachers College
Warsaw	Benton	687	46	43.3	− 3.9	70	6	14	30	52	1.93	−0.71	0.63	14-15	*T.*	12	14	0	16	nw	Dora B. Johnson
Wasola	Ozark	1,294	6	44.0	......	67	6	17	30	7	3.60	......	1.12	14	*T.*	13	10	9	11	w.	A. W. Pinckney
Waynesville...1¼ mi. E	Pulaski	805	1	42.6	......	68	6	13	30	1	1.26	......	0.40	13-14	T.	14	10	6	14	se.	Fred M. Sanderson
Division means	**and extremes**	.....	..	**42.2**	**− 3.7**	**73**	**4†**	**12**	**30**	..	**2 27**	**−0.39**	**1.72**	**1-2**	**T.**	**11**	**9**	**7**	**14**	**nw.**	
Southeastern Division																					
Advance.... ¼ mile W	Stoddard	354	10	41.3	− 3.0	66	6	20	30	10	2.86	−0.42	0.82	14	T.	14	8	5	17	ne.	U. S. Weather Bureau
Arcadia	Iron	926	66	42.4	− 1.5	65	6	15	30	69	4.60	+1.48	1.31	6-7	0	7	10	2	18	w.	Arcadia College
Birch Tree... ½ mile E	Shannon	1.000	52	43.4	− 3.2	65	5	15	30	53	4.03	+0.87	0.84	21	0	11	10	6	14	n.	Mrs. Mildred E. Catlett
Black.......9 miles NW	Iron	1,000	54	42.6[j]	− 2.1	66[j]	6	11[j]	30	54	3.18	+0.46	0.65	10-11	0	11	4[j]	8[j]	8[j]	ne.	M. L. Volner
Campbell	Dunklin	314	21	45.8[c]	− 1.8	66[c]	9	23[c]	30	21	3.76	+0.06	1 05	14-15	T.	15	11[c]	3[c]	13[c]	ne.	Mrs. Ruth Christian
Cape Girardeau	Cape Girardeau	347	2	44.2	......	65	6	18	30	47	3.21	−0.37	0.80	14-15	0	13	6	11	13	w.	State Teachers College
Caruthersville	Pemiscot	265	51	48.4	− 2.0	69	1	25	30	55	5.92	+2.07	1.65	10-11	0	11	14	3	13	s.	Victor T. Malloure
Clearwater Dam	Wayne	648	1	44.1	......	65	5†	18	30	1	3.77	......	0.95	6-7	T.	10	8	7	15	n.	U. S. Engineer Office
Crystal City	Jefferson	420	13	42.0	− 1.9	66	6	15	30	13	2.23	−1.19	0.40	10†	*0.1*	14	8	4	18	nw.	Richard K. Ragland
Doniphan	Ripley	344	43	45.2	− 2.1	69	5	18	30	43	3.56	+0.14	1.10	14	0	10	12	6	12	nw.	Boyce Lackey
Farmington	St. Francois	896	36	41.2	− 3.6	66	7	14	30	50	3.40	+0.58	0.69	10	T.	12	10	3	17	nw.	F. M. Karsch
Greenville...1 mile SW	Wayne	415	38	44.6[c]	− 0.8	68	6	18[f]	30	40	3.77	+0.41	0.78	14	0	10	8	10	12	nw.	Beuford Shoemake
Jackson	Cape Girardeau	428	56	44.0	− 2.6	66	5†	18	30	57	2.97	−0.41	0.63	10-11	*T.*	14	9	9	12	nw.	Danny Siebert
Koshkonong	Oregon	958	46	44.9	− 4.1	65	5†	19	30	47	4.15	+0.89	1.15	14	0	15	11	3	16	se.	Mrs. Genevieve T. Smith
Licking..... 4 miles N	Texas	1,170	10	41.0	− 4.3	64	6	15[a]	30	10	3.09	+0.45	0.52	13	0	8	7[a]	1[a]	21[a]	s.	Fern E. Austin

Continued on next page

Climatological Data for November 1947—Continued from preceding page

			Temperature, in degrees, Fahr.							Precipitation, in inches						Number of days					
Stations	Counties	Elevation, feet	Length of record, years	Mean	Departure from the normal	Highest	Date	Lowest	Date	Length of record, years	Total	Departure from the normal	Greatest in 24 hours[4]	Date	Total snowfall, unmelted	With precip., .01 inch or more	Clear	Partly cloudy	Cloudy	Prevailing direction of wind	Observers
Southeastern Division—	*Concluded*																				
Marble Hill	Bollinger	532	52	43.4	− 1.8	66	5†	15	30	54	3.08	−0.47	0.76	14	0	13	11	9	10	nw.	R. A. DeWitt
Poplar Bluff	Butler	339	42	45.6	− 2.1	68	5†	21	30	43	3.25	−0.23	1.09	14-15	0	12	9	5	16	w.	Osmon M. Richardson
Rolla	Phelps	1,202	47	40.4	− 4.6	66	6	17	30	63	2.65	−0.03	....	..	T.	10	11	9	10	n.	Rolla School of Mines
St. Louis:																					
City Office		465	110	41.6	− 3.8	62	6	16	30	110	2.43	−0.40	1.12	10-11	0.5	15	4	7	19	s.	**Section Center**
St. Louis Airport	St. Louis	556	10	40.4	− 3.5	62	6	16	30	16	1.80	−0.60	0.85	10	0.2	12	5	3	22	w.	U. S. Weather Bureau
St. Louis University	St. Louis City	578	35	41.2	− 4.5	63	6	17	30	35	2.01	−0 53	0.85	10	*0.4*	15	10	7	13	se.	St. Louis University
Salem	Dent	1,206	43	42.4	− 3.7	65	6	16	30	46	2.75	+0.11	0.62	10	0	9	9	6	15	nw.	E. E. Martin
Sikeston	Scott	318	40	44.5	− 2.7	67	6	21	30	50	5.61	+2.05	1.91	14	*T.*	12	12	6	12	n.	Mrs. Lucy W. Humphreys
Union 1½ mi. SE	Franklin	520	9	41.6	− 4.5	66	6	14	30	30	2.51	−0.24	1.02	9-10	*T.*	14	10	6	14	nw.	Cornelius Sieges
Vichy 2 mi. NW	Maries	1,125	11	40.2	......	65	6	15	30	12	2.02	......	0.46	9-10	0.3	13	7	6	17	nw.	Civil Aeronautics Adm.
Wappapello Dam	Butler	475	8	44.4	......	65	6†	20	30	8	3.02	−0.49	0.92	14	0	13	7	8	15	ne.	U. S. Engineer Office
Webster Groves	St. Louis	507	1	40.9	......	63	6	15	30	2	2.52	......	1.07	10	*T.*	12	6	10	14	nw.	R. W. Lawrie
Weingarten	St. Genevieve	833	6	40.6	......	60	6†	15	30	7	3.12	......	0.80	10	*T.*	9	8	8	14	n.	William J. Miller
West Plains	Howell	1,005	10	42.6	− 2.7	68	9	20	30	10	3.58	−0.46	0.98	14	T.	12	7	7	16	ne.	U. S. Weather Bureau
Willow Springs 500 ft E	Howell	1,238	6	42.7	......	64	6	18	30	40	3.76	+0.42	0.80	14	*T.*	10	7	5	18	n.	Allen Frazee
Cairo, Ill.	Alexander, Ill.	314	75	45.6	− 1.7	65	6	22	30	76	3.77	+0.09	1.18	10-11	T.	15	6	7	17	ne.	U. S. Weather Bureau
Division means	**and extremes**	.....	..	**43.1**	**− 2.9**	**69**	**1†**	**11**	**30**	..	**3.47**	**+0.21**	**1.91**	**14**	**T.**	**12**	**9**	**6**	**15**	**nw.**	
State means	**and extremes**	.....	..	**41.0**	**− 3.4**	**73**	**4†**	**9**	**24†**	..	**2.65**	**−0.06**	**1.91**	**14**	**0.5**	**11**	**8**	**7**	**15**	**nw.**	

The departures from normal temperature are computed from the averages of the entire period for stations having 10 or more years of record. Departures of precipitation for stations with 15 years or more of record are computed from a normal or "standard mean", adjusted to a uniform 35-year period; for stations of 10 to 14 years the means for the period of record are used. The normal may be found by adding the departures when minus (−) or subtracting when plus (+). Figures and letters following stations indicate distance in miles and direction of station from the city Post Office, unless otherwise indicated. T. Trace or 0.005 inch or less. [a], [b], [c], etc., number of days missing; for example, [b], indicates two days missing. Italics data interpolated. § Partly interpolated. † And other dates. ‡ Received too late to be included in means and summaries. [4] Best available used for stations not equipped with recorders. Post office address of: Altona is Adrian; Clearwater Dam is Piedmont; Crane Mountain is Arcadia; East End is Goodland; Hailey is Cassville; High Lookout is Birch Tree; Macedonia Lookout is Doniphan; Oates Tower is Centerville; Perry is Center; Pineview Lookout is Cape Fair; Sugar Camp Lookout is Seligman; Topaz is Cabool; Wilderness Lookout is Lampe. (C) Airport. ¶ Indicates plus.

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and both made very good growth throughout most of the month. There were some reports of Hessian fly infestation in early-sown wheat that had made very rank growth but the first hard freeze stopped the threat and checked too rank a growth. Soybean harvest was practically completed as was the harvesting of lespedeza seed by the close of the month. Water supplies and soil moisture were ample for current needs during the month. Livestock, generally, were in good condition but soft and muddy fields prevented grazing much of the time and dry feeding became increasingly more necessary as the month progressed. Considerable corn and some cotton still remained in the fields as the month closed.—M. R. W.

TEMPERATURE

The monthly mean for the State, 107 stations reporting, was 41.0°, or 3.4° below the 60-year November average. The highest monthly mean was 48.4° at Caruthersville, and the lowest was 34.0° at Unionville. The highest reported was 73° at Anderson on the 4th and 6th and at Carthage and Ozark Beach on the 6th, and the lowest was 9° at Maryville on the 24th and at Canton, Elsberry, Trenton and Unionville on the 30th.

PRECIPITATION

The average for the State, 213 stations reporting, was 2.65 inches, or 0.06 inch less than the 60-year November average. The greatest monthly amount was 5.92 inches at Caruthersville, and the least was 1.26 inches at Waynesville. The greatest amount reported in 24 hours was 1.91 inches at Sikeston on the 14th. The average number of days with 0.01 inch, or more, was 11.

Snowfall averaged 0.5 inch, or 0.5 inch less than the 58-year November average. The greatest monthly snowfall reported was 7.7 inches at Unionville.

MISCELLANEOUS PHENOMENA

Fogs.—Heavy, 4th, 6th, 12th, 19th, 22d, 26th, 27th.

Frosts.—Light, 5th, 6th, 8th, 9th; heavy, 6th, 7th, 8th, 9th; killing, 5th, 6th, 7th, 8th, 9th, 11th, 12th, 16th, 25th.

Glaze.—10th, 21st, 22d, 23d, 24th.

Hail.—Light, 4th at Chillicothe Airport, Martinsburg, Jefferson City; 6th at Albany, Warrenton, Bolivar, Joplin. Heavy, 10th at Pomona and vicinity; practically no damage.

Sleet.—7th, 9th, 10th, 18th, 19th, 21st, 22d, 23d, 24th, 25th, 27th, 28th, 29th.

Windstorms.—High winds on several days but no damaging windstorms reported.

Daily Precipitation for November 1947

Stations	Drainage-basins	Day of month																															Total
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	..	
Northern Division																																	
Albany	Grand	.05	....	....	.46	....	.12	T.	....	....	.18	....	....	....	.52	.42	....	....	....	....	T.	.08	.11	*.07*	....	....	.09	T.	....	....	....	....	§2.10
Amity	do	.12	....	....	.40	T.	....	.45	....	....	.35	....	....	....	.24	.52	....	....	....	T.	T.	.02	.23	.08	T.	....	.02	T.	....	....	....	....	2.43
Auxvasse	Missouri	.09	....	....	.13	....	....	....	....	....	.19	....	....	....	.45	.14	....	....	.10	....	T.	.10	.18	.04	.09	....	T.	....	....	....	....	....	1.51
Bethany	Grand	*	.08	....	.51	....	....	.12	....	....	.22	....	....	....	.23	.20	....	....	....	....	....	T.	.14	.14	....	....	T.	....	....	....	....	....	1.64
Bowling Green[2]	Mississippi	.53	....	....	....	.28	....	.13	....	....	....	.16	....	....	....	.45	....	....	....	.04	....	.10	....	....	.31	....	....	....	....	....	....	....	2.00
Brookfield[2]	Grand	.10	....	....	.06	.13	....	....	....	....	.48	.14	....	....	....	.52	....	....	....	....	....	.25	.20	....	.12	.04	....	....	....	....	....	....	2.04
Browning.....3 mi. NE	do	.07	....	T.	.49	....	....	.05	....	T.	.49	....	....	....	.35	.31	....	....	....	....	....	.20	.24	.25	.03	T.	.03	T.	T.	....	....	....	2.51
Brunswick[2]	do	.12	T.	....	.09	T.	....	T.	....	....	T.	.39	....	....	....	.32	....	....	....	....	T.	.24	.22	....	.06	....	T.	.04	.02	....	....	....	1.50
Canton, Lock No. 20[2]	Mississippi	1.00	....	....	....	.29	....	.02	....	T.	....	.89	....	....	....	.70	....	....	....	....	....	.14	.18	....	.20	T.	....	T.	....	....	....	....	3.42
Carrollton	Missouri	.13	....	....	.19	....	....	.07	....	....	.59	....	....	....	.48	.28	....	....	....	....	T.	.24	.15	T.	.03	....	.03	....	....	....	....	....	2.19
Centralia[2]	Mississippi	.24	....	....	.06	.02	....	....	....	....	....	.32	....	....	....	.60	....	....	....	....	....	.11	.12	....	.09	....	.02	....	....	....	....	....	1.58
Chillicothe[2]......(B)	Grand	.06	T.	....	.06	.26	....	T.	....	....	.10	.60	....	....	....	.70	....	....	....	....	....	.20	.24	....	.06	....	.03	....	....	....	....	....	2.31
Chillicothe[3] 2mi ESE (C)	do	.06	T.	....	.45	....	.02	....	....	T.	.65	....	....	....	.77	.02	....	....	....	....	....	.43	.11	.05	.02	.01	T.	T.	....	....	....	....	2.59
Columbia[1, 5]	Missouri	.02	....	.01	.18	....	T.	T.	....	....	.19	....	....	....	.61	.01	....	....	.08	T.	T.	.24	.08	.16	.03	....	.03	.01	....	....	....	....	1.65
Columbia[5]..9 mi. WNW	do	.08	....	.01	.23	....	....	T.	....	....	.19	T.	....	....	.28	.30	....	....	.05	....	....	.17	.22	.04	.10	....	.01	....	.03	....	....	....	1.71
Conception	do	T.	....	....	.70	....	....	T.	....	....	.11	....	....	*T.*	.16	.71	....	....	....	....	T.	.04	.10	.06	T.	....	.05	T.	....	....	....	....	1.93
Edgerton[2]	do	.13	T.	....	.20	.41	....	.13	....	....	.43	.07	....	....	....	.71	....	....	....	*T.*	....	.06	.20	....	.03	....	.03	....	....	....	....	....	2.40
Edina[2]	Mississippi	.64	T.	T.	....	T.	....	....	....	....	....	.78	....	....	....	.70	....	....	....	....	....	.11	.40	....	.15	T.	....	T.	....	....	....	....	2.78
Elsberry S. C. S.[2]	do	1.24	....	....	....	.13	....	.66	....	....	.13	.24	....	....	....	.42	....	....	.05	T.	....	.03	.12	....	.21	....	....	....	....	....	....	....	3.23
Fayette	Missouri	.13	....	T.	.22	....	....	....	....	....	.67	.02	....	....	.42	.21	....	....	.05	....	.04	.11	.12	.11	....	....	.02	....	....	....	....	....	2.12
Fulton[2]	do	.60	....	....	.09	....	....	.02	....	....	.17	.14	....	....	....	.46	....	....	....	.12	T.	.14	.11	....	.10	....	T.	.01	....	....	....	....	1.96
Gallatin[2]	Grand	*.06*	....	....	T.	.18	....	.07	....	....	....	*.46*	....	....	....	*.37*	....	....	....	....	....	.06	*.32*	....	*.07*	....	....	....	....	....	....	....	§1.59
Grant City	do	.06	....	....	.62	....	T.	T.	....	....	*.05*	....	....	....	.37	.55	....	....	....	....	T.	....	.09	.02	....	....	.02	....	....	....	....	....	§1.78
Hannibal[1].........(A)	Mississippi	.04	....	....	T.	....	T.	....	....	....	.65	....	....	....	.73	.07	....	....	T.	....	....	.07	.23	.09	....	....	....	T.	....	....	....	....	1.88
Hannibal[2].........(B)	do	1.90	....	....	....	.06	T.	T.	....	....	....	.58	....	....	....	1.20	T.	....	....	T.	....	.05	.24	....	.16	T.	....	T.	....	....	....	....	4.19
Hermann[2]	Missouri	.25	....	....	....	.08	....	.06	....	....	.81	.12	....	....	....	.35	....	....	....	.10	....	.12	.10	....	.11	....	T.	T.	....	....	....	....	2.10
Kahoka[2]	Mississippi	1.06	....	....	....	.07	....	....	....	....	....	.66	....	....	....	.88	....	....	....	....	....	.15	.33	....	.21	....	....	....	....	....	....	....	3.36
Kansas City Airport[1, 5]	Missouri	.08	T.	....	.25	....	.08	T.	....	....	.13	....	....	....	.73	T.	....	....	T.	....	.03	.25	.01	T.	T.	.04	T.	T.	....	....	....	....	1.60
Kansas City University	do	.12	.02	....	.26	....	....	.11	....	....	.38	....	....	....	*	.71	....	....	T.	....	....	.10	.17	....	T.	.04	....	....	....	....	....	....	1.91
Kidder[2]	Grand	.15	....	....	.03	.14	....	....	....	....	.45	.14	....	....	....	.90	....	....	....	....	T.	.16	.15	....	.09	....	.05	....	....	....	....	....	2.26
King City	Missouri	.01	....	....	....	....	.14	....	....	....	.90	....	....	....	.47	.21	....	....	....	....	....	.10	.13	.04	....	....	.23	....	....	....	....	....	2.23
Kirksville	Mississippi	.16	.01	....	*	.20	....	*T.*	....	....	.46	....	....	....	.10	.60	....	....	....	....	....	.23	.20	.06	.07	....	*T.*	....	....	....	....	....	2.09
Kirksville Airport[3, 5]	do	.08	T.	T.	.21	....	....	T.	....	T.	.49	....	....	....	.72	.04	....	....	....	....	....	.19	.19	.08	.05	T.	.02	T.	T.	....	....	....	2.07
LaBelle[2]	do	1.07	....	....	....	....	....	T.	....	....	....	.94	....	....	....	.80	....	....	....	....	....	.10	.28	....	.08	....	....	T.	....	....	....	....	3.27
Lathrop	Grand	.18	....	....	.23	....	....	....	....	....	.72	.22	....	....	.57	....	....	....	....	....	....	.15	.35	.10	....	....	....	T.	....	....	....	....	2.52
Linneus	do	.07	.01	....	.12	....	....	.02	....	T.	.63	....	....	....	.17	.40	....	....	....	....	....	.26	.23	.07	.05	....	.01	T.	....	....	....	....	2.04
Louisiana.........(A)	Mississippi	.20	....	....	....	.32	....	.37	....	....	.12	.10	....	....	.10	.37	....	....	.08	....	....	.10	.20	.04	.20	....	....	.05	....	....	....	....	2.25
Louisiana[2].........(B)	do	.48	....	T.	....	.26	....	.60	....	....	.01	.23	....	....	....	.43	....	....	....	.06	....	T.	.20	....	.12	T.	....	T.	....	....	....	....	2.39
Lucerne[2]	Grand	.18	....	....	....	.22	....	T.	....	....	*.10*	T.	....	....	....	.95	....	....	....	....	....	.12	.13	....	*.20*	....	T.	....	....	....	....	....	§1.90
Macon[2]	Chariton	.14	....	....	....	....	.06	*T.*	....	....	....	.61	....	....	....	.62	....	....	....	....	.12	....	.20	....	.13	....	T.	T.	....	....	....	....	1.88
Madison[2]	Mississippi	.18	....	....	....	....	....	....	....	....	....	.74	....	....	....	....	....	....	....	....	....	.19	.20	....	.10	....	*.02*	....	....	....	....	....	§1.43
Martinsburg[2]	Missouri	.38	T.	.01	....	.25	....	....	....	....	.05	.13	....	....	....	.48	....	....	.05	.08	....	.11	.20	....	.18	....	.02	T.	T.	....	....	....	1.94
Maryville	do	.10	....	....	.54	....	....	T.	....	....	T.	....	....	....	.30	.66	....	....	....	....	T.	.07	.13	.09	....	....	.12	T.	....	....	....	....	2.01
Memphis[2]	Mississippi	.53	....	....	....	.15	....	....	T.	....	....	.52	....	....	....	.54	....	....	....	....	....	.14	T.	....	.37	*.10*	....	.03	....	....	....	....	§2.38
Mexico[2]	do	.56	....	.03	.02	.04	....	.01	....	....	.04	.09	....	....	....	.67	....	....	....	.04	....	.16	.19	....	.05	....	T.	....	....	....	....	....	1.90
Milan[2]	Grand	.18	....	....	....	.11	....	T.	....	....	....	.57	....	....	....	.68	....	....	....	....	....	.21	.22	.25	....	....	....	....	....	....	....	....	2.22
Moberly[2] ....3½ mi. NE	Mississippi	.17	....	....	.11	....	....	....	....	....	.99	....	....	....	....	.68	....	....	....	T.	....	.10	.13	....	*T.*	....	*T.*	....	....	....	....	....	2.18
Monroe City	do	.07	....	....	.21	....	....	....	....	....	.59	.14	....	....	.26	.69	....	....	....	....	....	.14	.28	....	.18	....	....	....	....	....	....	....	2.56
New Florence[3, 5] 1 mi SE	Missouri	.01	....	.01	.14	....	.21	.01	....	....	.47	....	....	....	.33	.01	....	....	.10	T.	T.	.11	.07	.14	.02	....	T.	T.	....	....	....	....	1.63
Oregon[1]	do	.29	....	....	.41	....	T.	....	....	....	*.02*	....	....	....	.87	....	....	....	T.	....	.12	T.	.21	*.03*	....	.04	....	....	....	....	....	....	§1.99
Palmyra[2]	Mississippi	.75	....	....	....	.10	....	....	....	....	....	.96	....	....	....	.68	....	....	....	....	....	.13	.25	....	.10	....	....	T.	....	....	....	....	2.97
Paris[2]	do	.53	....	....	....	.15	....	....	....	....	....	.77	....	....	....	.60	....	....	....	T.	T.	.15	.19	....	.12	....	.01	T.	....	....	....	....	2.52
Perry ....1 mile E	do	.05	....	....	....	.02	....	....	....	....	.40	.05	....	....	*	.60	....	....	....	....	....	.07	.15	....	.10	....	....	....	....	....	....	....	1.44
Philadelphia	do	.20	....	....	T.	....	T.	....	....	....	.62	.08	....	....	....	.70	....	....	T.	....	....	.15	.20	....	.13	....	*T.*	....	....	....	....	....	2.08
Polo[2]	Missouri	.20	.05	....	.02	.05	....	.16	....	....	.30	.24	....	....	....	.76	....	....	....	....	....	.11	.25	....	*T.*	....	.05	....	....	....	....	....	2.19
St. Charles[2]	do	.83	T.	T.	T.	.15	....	.13	....	....	.56	.32	....	....	....	.33	....	....	.03	.09	T.	....	.08	....	.15	T.	....	.02	T.	....	....	....	2.74
St. Joseph Airport[1, 5]	do	.01	....	....	.51	....	.39	.02	....	....	.38	....	....	....	.99	T.	....	T.	....	....	.02	.20	T.	.06	T.	.04	T.	T.	....	....	....	....	2.62
Salisbury	Chariton	.07	....	....	.18	....	....	*T.*	....	....	.70	....	....	....	.37	.24	....	....	.01	....	T.	.20	.17	.04	.05	....	.02	....	....	....	....	....	2.05
Saverton, Lock No. 22[2]	Mississippi	.61	....	....	....	.09	....	T.	....	....	T.	.75	....	....	....	.57	....	....	T.	.01	T.	.07	.23	T.	.13	T.	T.	T.	T.	....	....	....	2.46
Shelbina	do	.07	....	....	.04	....	....	*T.*	....	....	.70	.04	....	....	T.	.82	....	....	....	....	....	.16	.12	T.	.19	....	T.	....	....	....	....	....	2.14
Shelbyville	do	....	....	....	.12	....	....	....	....	....	.66	....	....	....	....	.79	....	....	....	....	....	.47	....	....	....	....	....	....	....	....	....	....	2.04
Steffenville	do	.18	....	....	T.	.08	T.	....	....	....	.67	.05	....	....	.15	.71	....	....	....	....	....	.12	.29	T.	.14	T.	T.	....	....	....	....	....	2.39
Tarkio[3]	Missouri	T.	T.	....	.22	....	T.	.08	....	....	....	....	....	....	.63	T.	....	....	T.	T.	.23	.08	.03	.02	T.	.11	T.	T.	....	....	....	....	1.35
Trenton[2]	Grand	.02	....	....	.02	.15	....	.07	....	....	.12	.39	....	....	....	.96	....	....	....	....	....	.15	.22	....	.13	....	.03	....	T.	....	....	....	2.26
Troy[2]	Mississippi	1.60	....	....	....	.06	....	.95	....	....	.35	.25	....	....	....	.55	....	....	.08	.09	T.	.02	.11	....	.20	T.	....	T.	....	....	....	....	4.26
Unionville[2]	Chariton	.33	....	....	....	.12	T.	T.	....	....	....	.34	....	....	....	.81	....	....	....	....	....	.15	.04	....	.30	....	T.	....	....	....	....	....	2.09
Vandalia	Mississippi	.08	....	....	....	.15	....	....	....	....	T.	T.	....	....	T.	.70	....	....	.09	....	....	.09	.18	T.	....	....	....	T.	....	....	....	....	1.29
Warrenton	do	.07	....	....	.08	....	.04	.89	....	....	.49	.20	....	....	.17	.32	....	....	.16	....	T.	.10	.03	T.	.24	....	....	T.	....	....	....	....	2.79
Keokuk, Iowa[1]	do	.04	....	....	.25	....	.06	T.	....	....	.70	....	....	....	.45	.05	....	....	....	....	....	.17	.26	.15	.04	T.	T.	.02	....	....	....	....	2.19
Southwestern Division																																	
Altona[2]	Osage	....	T.	....	.31	....	....	.08	....	....	....	.52	....	....	....	.50	....	....	T.	.08	....	.20	.26	....	T.	....	....	....	....	....	....	....	1.95
Anderson[2] ...1½ mi. SW	Neosho	*	*	....	.11	....	....	.28	....	....	....	.10	....	....	*	.76	....	....	.09	....	....	.34	.33	....	.05	....	....	....	....	....	....	....	2.06
Appleton City..2 mi. W	Osage	.02	....	....	.20	....	....	.12	....	....	....	.03	....	T.	.40	.13	....	....	.06	T.	....	.20	.22	.06	.03	....	.02	....	....	....	....	....	1.49
Ava Ranger Station[2]	White	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Bolivar	Osage	.10	T.	....	.34	....	....	.11	....	....	.23	.02	....	....	.52	.05	....	....	.04	.01	....	.13	.31	T.	.03	....	....	....	....	....	....	....	1.89
Boonville[2] ....(A)	Missouri	.04	....	....	.25	.01	....	.03	....	....	....	.33	....	....	....	.46	....	....	.02	.03	....	.14	.25	....	.11	....	.03	....	....	....	....	....	1.70
Boonville[2].........(B)	do	.02	....	....	.05	.26	....	....	....	....	....	.22	....	....	....	.62	....	....	T.	....	....	.16	.22	....	.37	....	.01	....	....	....	....	....	1.93
Bradleyville[2]	White	....	.10	....	.30	....	....	....	....	....	....	1.10	....	....	....	.97	....	....	....	.15	.12	....	.39	.05	.24	....	....	....	....	....	....	....	3.42
Buffalo[2]	Osage	.05	....	....	.25	....	....	.14	....	....	.05	.17	....	....	....	.50	....	....	....	....	....	.16	....	....	.22	....	....	....	....	....	....	....	1.54
Butler	do	.02	....	....	.34	....	....	.12	....	....	.38	....	....	T.	.45	.20	....	....	.09	....	....	.17	.23	.04	.02	....	.01	....	....	....	....	....	2.07
Camdenton	do	.11	....	....	.25	....	....	....	....	....	.32	....	....	....	.20	.25	....	....	....	....	.11	.28	....	....	....	.10	....	....	....	....	....	....	1.62
Caplinger Mills[2]	do	.02	T.	....	.39	....	....	.29	....	....	.07	.06	....	....	....	.58	....	....	....	.03	....	.17	.34	....	.07	....	....	....	....	....	....	....	2.02
Carthage	Neosho	....	....	....	.33	....	....	.31	....	....	.11	....	....	....	.59	.06	....	....	.30	....	....	.30	.17	....	....	....	....	....	....	....	....	....	2.17
Cassville[2]	White	.01	.06	....	.14	....	....	.21	....	....	T.	.41	....	....	T.	.92	....	....	.06	.08	.01	.29	.33	.03	.04	....	....	....	....	....	....	....	2.59
Chadwick[2]	do	.03	.34	....	.67	.10	....	.24	....	....	....	.35	....	....	....	.95	....	....	....	.26	.06	.14	.26	....	.24	T.	....	....	....	....	....	....	3.64
Clinton[3]	Osage	T.	....	....	.27	....	.12	....	....	....	.13	....	....	....	.64	....	....	....	.06	T.	....	.34	T.	.12	....	T.	.07	....	....	....	....	....	1.75
Concordia	Missouri	.10	....	....	.26	....	....	.09	....	....	.63	....	....	....	.45	.19	....	....	....	T.	....	.23	.18	.05	.10	....	T.	....	....	....	....	....	2.28
Crocker	Osage	.14	T.	....	.14	....	....	....	....	....	.44	.05	....	....	.40	.08	....	....	.03	.02	.14	.10	T.	T.	....	....	T.	....	....	T.	....	....	1.54
Eldon	Missouri	.04	....	....	.12	....	....	....	....	....	.36	T.	....	....	.34	.10	....	....	.12	T.	.02	.16	.10	T.	.06	....	.02	....	....	....	....	....	1.44
Eldorado Springs	Osage	.04	....	....	.31	....	....	.28	....	....	.06	....	....	....	.30	.05	....	....	.04	....	....	.27	.23	.11	....	....	T.	....	....	....	....	....	1.69
Elijah[2]	White	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Forsyth[2]	do	.08	.03	....	.25	.05	....	.15	....	....	....	.85	....	....	....	.75	....	....	.10	.05	.05	.15	.30	....	.10	....	....	....	....	....	....	....	2.91
Galena[2]	do	.03	.01	....	.37	....	....	.19	....	....	T.	.57	....	....	....	.87	....	....	.06	.07	.04	.23	.27	.03	.07	....	T.	....	....	....	....	....	2.81
Granby[2]	do	....	.01	....	.08	....	....	.35	....	....	....	.06	....	....	....	.68	....	....	.05	.08	T.	.20	.27	....	.05	....	....	....	....	....	....	....	1.83
Hailey	do	....	....	....	.47	....	....	.08	....	....	....	.81	....	....	.81	T.	.14	.23	.05	.73	T.	.41	.09	.07	....	....	....	....	....	....	....	....	3.89
Harrisonville[2]	Osage	.02	.02	....	*	.21	....	.10	....	....	....	.57	....	....	....	.61	....	....	....	....	....	.19	.23	*	.03	....	.03	....	....	....	....	....	2.01
Jefferson City[2] ....(A)	Missouri	.16	....	....	.06	.77	....	.01	....	....	.22	.08	....	....	....	.46	....	....	.01	.04	T.	.08	.07	....	.09	....	T.	T.	T.	....	....	....	2.05
Jefferson City[2].....(B)	do	.17	.01	....	T.	.44	....	.01	....	....	.25	.09	....	....	....	.35	T.	....	.01	.05	T.	.09	.08	....	.12	....	T.	T.	.01	....	....	....	1.68

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Stations	Drainage-basins	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	..	Total
Southwestern Division—	*Concluded*																																
Joplin Airport[3]	Neosho	T.			.03		.32	T.		.01	.09			T.	.74			.03	.26	T.	.13	.66	.02	.08	T.	T.	T.						2.42
Lakeside[2, 5]	Osage	.22	T.		.20			T.			.28	.12				.46			.04	.05	.03	.10	.11		.08		.04	T.					1.73
Lamar[2]	Neosho				.15			.30				.15				.55			.24			.45	.20		.05		.05						2.14
Lebanon	Osage	.09			.30			.04			.12				.56				.14	.02		.16	.11										1.54
Lexington[2]	Missouri	.06	.01		.17	T.		.10			.05	.31				.79						.20	.13		.01		.02						1.85
Lockwood	Osage	*T.*			.40			.37				.12			.44				.04			.28					T.						1.65
Mansfield[2]	White	.17	.14		.59	.23		.46				.58				.83			.10	.15	.05	.13	.28		.10								3.81
Marshall	Missouri	.06										.85			.33	.28			.02	T.		.20	.14		T.		.08						1.96
Marshfield[2]	White	.09	.01	T.	.31			T.			.11	.22				.61			.05	.08	.02	.13	.08	*	.06								1.77
Monett[2]	Neosho	T.	.03		.09			.16				.12			.14	.55			.12	.05	.02	.18	.26		.03		T.						1.75
Mountain Grove[2]	Gasconade	.59	.11		.31			.40				.44				.74			.08	.11		.11	.32	.06	.02								3.29
Mount Vernon[2]	Neosho	T.			.20							.12				.66			.34	T.		.13	.25		.25		.03						1.98
Neosho	do	.02			.10			.44			.06	.02			.63	.06			.10	.02	T.	.30	.28	.02	.05								2.10
Nevada	Osage	.02			.24				.10		.08				.50	.13			.13	T.		.29	.19	.03			.06						1.77
Osceola[2]	do	.07			.30			.24				.02				.50				T.		.17	.20		.07		.02						1.69
Ozark[2]	White	.12	T.	.28				.18				.32				.60			.19	.08		.18	.15		.10		.10						2.30
Ozark Beach[2]	do	.01	.05		.27		.19					.93				.78			.15	.06	.04	.18	.29										2.95
Pierce City[2]	Neosho				.13			.20				.35				.60				.75	T.	.18	.24		T.	T.							2.45
Pineview Lookout[2]	White																																
Pleasant Hill[2]	Osage	.06	.04		.22			.10				.25				.64				T.		.22	.28		.06		.03						1.90
Roby	Gasconade	.08	.05		.40		T.	.30			.37	.03			.50	.03			.14	.03		.10	.12	.07	.05		T.						2.27
St. Thomas[2]. 2¼ mi SW	Osage	.32			.22	T.					.26	.16				.44			T.	.06		.11	.13		.05		T.						1.75
Sedalia	Missouri	.05			.40			.11			.10				.46	.11			.06	T.		.06	.20	.04	.08		.04						1.71
Seligman[2]	Neosho		.15		.20										.70	.65			.07	.02		.28	.30		.10								2.47
Seymour[2] ..... 4 mi. E	White		1.72	T.	*	.40		T.			T.	.74				.89			.10	.07	T.	T.	.15	T.	.11		T.						4.18
Shell Knob[2]...3 mi. SE	do	T.	.14		.13			.25							*	.93			.06	.07	.04	.25	.26	.02	.06		T.						2.21
Siloam Sprgs Lookout[2]	do	.45	.38			.56		.72				.89				.98			.16	.10				.72	.06								5.02
Springfield[1, 5]. 4 mi. NW	Osage	.01	T.		.30		.15	T.		T.	.12	T			.48			.04	.14	.01	T.	.34	.01	.04	.01		.03						1.68
Stover[2]	Missouri	.12	T.		.22						.23	.09				.45				.10		.17	.22		.04		.02						1.66
Sugar Camp Lookout[2]	White																																
Sweet Springs	Missouri	.02			.23			.05			1.15				.45	.17			.02		T.	.22	.12	.03	.07		.03						2.56
Tecumseh[2]. ..¼ mi. W	White					.36		.60			.05	.16			.10	.87			*	.33		.23	.62		T.								3.32
Topaz[2]	do	.07				.44		.47				.65				.88			.10			.11	.45		.04								3.21
Vanzant[2]....3¾ mi. SE	do	.19	.05			.40		.40				.46				.95			.12				.20	.46	.15								3.38
Waco[2]	Spring	*T.*			.10			.19				.09				.61			.21	.05	.02	.51	.24		.05		T.						2.07
Warrensburg	Missouri	.07			.30			.07			.62				.46	.13			.02	T.		.02	.25	.16	.02		.03						2.15
Warsaw (A)	Osage	.04			.25				.20		.11				.37	.26			.10	T.	T.	.15	.22	.06	.12		.05						1.93
Warsaw[2] (B)	do	T.			.24	T.		.16			T.	T.				.60			T	T.		.12	.21		.10		T.						1.43
Wasola[2]	White	.05	.19		.26	.24		.27				.39				1.12			.13	.11	.05	.18	.52		.09		*T.*						3.60
Waverly[2]	Missouri	.08			.20			.10				.30				1.00					.02	.23	.22		.04		.02		.01				2.22
Waynesville...1¼ mi. E	Gasconade	.10			.12			.19			.02	.06			.40	.11			.02		.01	.10	.07	.01	.04		.01						1.26
Weaubleau[2]	Osage	*.06*	*T.*		*.34*			*.25*			.10	.03				.45				.02		.20	.17	.10									§1.72
Wilderness Lookout[2]	White		.19		.05			.30				1.00				.91			.09	.07	.02	.16	.29	.03	.02								3.13
Southeastern Division																																	
Advance[3].....½ mile W	St. Francis	.39	.01	T.	.48		.06	.31			.38	.02			.82				.09	.02		.13	.02	.10	.03		T.			T.			2.86
Alton.......10 miles SE	Black	.20	.06		.58			.93			.21				1.12				.13	.06		.04	.32	.06	.03								3.74
Annapolis[2].....7 mi. W	do	.16	.14	T.	T.	.48		1.00			.05	.95				.85			.05	.14	.01	.03	.94		.09		.03	T.			T.		4.92
Arcadia[2]	St. Francis	.55	.21					1.31			.28	.73				.61				T.			.91	*T.*									4.60
Belleview[2]	Meramec	.13	.28	.06		.48		.57			.03	.54				.52			T.	.12			.55		.02		T.	.01			T.		3.31
Bernie[2]	St. Francis	.37	.55	.14	.06	.63		.57				1.08				1.09			.15	.11	T.		.33	.13									5.21
Birch Tree[2] ...½ mile E	Black		.20			.48		.68			.18	.58				.80			*	.20		.08	.76		.07								4.03
Black...... 9 miles NW	do	.27	.02		.54			.34			.45	.20			.54				.20	.02		*	.60										3.18
Bloomfield[2]	St. Francis	.67	.48	.04	.09	.46		.52				.20				.99			.04	.22		.10	.13		.16			T.					4.10
Bunker[2]... 4 miles NW	Black	.52	.13			.65		.47			.04	.97				.73			T.	.20		.31	.47			T.	.06						4.55
Campbell	St. Francis	.21	.25	.02	.65	T.		.56			.08	.21			.82	.23			.23	.03		.18	.13	.06	.10		T.				T.		3.76
Cape Girardeau....(A)	Mississippi	.30	.15	.08	.40	T.		.40			.03	.45			.50	.30			.02			*T.*	.25	.05	.28								3.21
Cape Girardeau[2]...(B)	do	.61	.06	.02	T.	.42		.41	T.		T.	.49				.54			T.	.02			.26		.22								3.05
Caruthersville[2]	do	.70	.63	.06		.34		.57			T.	1 65			T.	1.20			.46				.11	.03	.17	T.							5.92
Centerville(1)[2]	Black	.16	.04	.05	T.	T.		.41			.12	1.08				.53			.04	.15		.06	.66		.10		T.	*T.*					3.40
Centerville(2)[2]	do	.12	.07	.05	T.	.42		.51			.04	1.13				.58			.04	.14	T.	.04	.63	T.	.11	.01	T.	T.			T.		3.89
Clearwater Dam[2]	do	T.	.18	.01		.45		.95			T.	.48				.85			T.	.10		*	.65	.10		*T.*							3.77
Cook Station[2]	Meramec				.48			.45			.10	.54				.52				.16			.20		.10								2.55
Crane Mountain[2]	St. Francis	.16	.14		.06	.49		.84			.19	.80				.79			.15	.05		.02	.86		.16			.01					4.72
Crystal City	Mississippi	.12	.02	.03	.28			.10			.40	.20			.40	.06			.17			.05	.26	.13	T.		.01	*T.*					2.23
Cuba	Meramec	.62		T.	.35		T.	.41			.42	.04			.45	.11			.04	T.		.04	.08	T.	.10		T.	.01					2.67
Deering[2]	St. Francis	.35	.65			.29		.61			.03	.56				1.34			.40				.18		.20								4.61
De Soto	Mississippi	.25	.04	.05	.41			.19			.34	.25			.43	.06			.18			.06	.22		.13			T.					2.61
Dexter[2]	St. Francis	1.32	.49	.08		.52		.55				.43				1.05			.12	.10			.21		.26						T.		5.13
Doniphan(1)	Black	.26	T.		.64			.45			.31	.14			1.10	T.			.27			.12	.15		.12								3.56
Doniphan(2)[2]	do	.16	30			.51		.44				.35				.95			.18				.22		.13								3.24
East End[2] ‡	Meramec	*	.29			*.50*		*.45*			*.06*	*.56*				*.53*				.10			.48										§2.97
Eastwood Lookout[2]	Black																																
Ellington[2]	do	.05	.12			.55		.88				1.10				.94				.15		.03	.92	.02	.10		T.	*T.*					4.86
Ellsinore	do																																
Farmington[2]	St. Francis	.16	.26	.03		.29		.58	.04		T.	.69				.55			.04	.11	T.		.63		T.			.02			T.		3.40
Fisk[2]	do	.21	.50	.19	T.	.40		.53			T.	.25				1.06			T.	.11			.18		.17								3.60
Fredericktown[2]	do	.10	.20	.10		.25		.42			.06	.94				.71				.15	T.		.71		.03			T.					3.67
Gerald	Meramec	.08	.02	.05	.26			.54			.64	.08			.31	.14		.09			.02	.04	.15		.17								2.59
Greenville[2] .. 1 mi. SW	St. Francis	.08	.35	.03		.76		.43				.70				.78			T.	.09		T.	.41		.14								3.77
High Lookout	Black	*	.11		.31		.80				.31	.14			.76				.16	.05		.06	.77	.11	.07						T.		3.65
Jackson	Mississippi	.28	.15	.03	.35			.31			.02	.61			.36	.25			.05	.02	T.	T	.35	.04	.15			T.			*T.*		2.97
Jerome[2]	Gasconade	.41		.04	.23	.04		.42			.16	.12				.49				T.	.02	.16			.12		.02						2.23
Koshkonong[2]	Black	.01	.13			.30		1.04			.14	.40				1.15			.08	.12	.01	.06	.52	.05	.13						.01		4.15
Leeper[2]	do	.01	.32			.65		.49			.01	.65				.87			T.	.15	T	T.	.54		.12		*T.*		*T.*				3.81
Licking[2]	Gasconade	.79				.42		.42				.40			.52					.14	.10		.30										3.09
Macedonia Lookout[2]	Black	.15	.15			.56		.51			T.	.24			T.	.90			T.	.12	.03	T.	.22	.16	.09						.02		3.15
Marble Hill	Mississippi	.39	.26	.06	.55			.35			.06	.15			.36	.40			.15			.08	.20	.07									3.08
Morehouse	do	.29	.19		.46			.53			T.	.76			.71	.41			.19			.10	.18	.04	.14								4.00
Moselle[2]	Meramec					.38		.18			.53	.07				.34			*	.07	T.	T.	.11		.17		T.						1.85
New Madrid[2]	Mississippi	1.03	.36	.06		.26		.61				.36				1.14			.27	T.			.22	T.	.11								4.42
Oates Tower[2]	Black	.13	.04	.01		.63		.43		T.	.07	.71				.50			T.	.16	.02	.06	.59	T.	.05		T.	T.					3.40
Owensville[2]	Gasconade	.45	T.		T.	.25		.67			.40	.25				.40			T.	.12	.07		.11		.15			.05					2.92
Pacific[2]	Meramec	.55				.46		.13			*	*				1.06			T.	*.08*			*.12*		*.17*			*.01*					§2.53
Parma[2]	St. Francis	1.32	.37		.05	.57		.67			T.	.62				1.20			.14						.65	.10							5.69
Perryville	Mississippi	.10	.09	.02	.32			.12			.55	.47			.60	.04			.21		T.	T.	.73	T.	T.								3.25
Poplar Bluff[2]	Black	.03	.35	.01		.41		.52			.07	.33				1.09			.08	.04		T.	.18		.14								3.25
Puxico[2]	St. Francis	.20	.35	.01	T.	.50		.50			T.	.27				1.01			.10	.09			.15	T.	.19								3.37
Qulin[2]	do	.13	.49	.01	T.	.61		.61			.03	.77				1.10			.12	.07	T.		.21	T.	.17		T.				T.		4.32
Reynolds[2]	Black	.18	.15			.52		.50			.08	.90				.68				.19			.74		.11								4.05
Richwoods[2]	Meramec	.30		.06		.37		.15			.35	.42				.57				.13		.02	.18		.09			T.					2.64
Rolla[2]	do	*	.75		*	.28		.50			.28	.15				.49				T.		T.	.10		.10		T.						2.65
Round Spring[2]	Black	.34				.73		.53				.75				.61			.04			.22	.50		.07								3.79

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Stations	Drainage-basins	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	..	Total
Southeastern Division —	*Concluded*																																
St. Louis:																																	
City Office[1], [5]	Mississippi	.05	T.	.03	.23	....	.09	.08	....	....	1.11	.01	....	....	.30	.02	....	....	.08	T.	....	.10	.06	.24	.02	....	.01	....	....	....	....	....	2.43
Airport[3], [5]	Missouri	.06	T.	T.	.17	....	.10	.04	....	....	.85	.01	....	....	.25	.01	....	....	.11	T.	....	.03	.06	.11	T.	....	T.	T.	....	....	....	....	1.80
St. Louis Univ.[1], [5]	Mississippi	.03	.01	.02	.19	....	.09	.05	....	....	.85	T.	....	....	.33	.02	....	....	.10	.01	....	.02	.07	.17	.05	....	T.	T.	....	....	....	....	2.01
Washington Univ.[2]	....do	.61	....	.01	....	.26	....	.24	....	....	.66	.31	....	....	....	.44	....	....	.04	.05	....	....	.15	....	.16	.01	....	....	....	....	....	....	2.94
Salem	Meramec	.12	.05	....	.40	....	....	.49	....	....	.62	T.	....	....	.56	....	....	....	.17	T.	....	.07	.27	T.	....	....	T.	....	....	....	....	....	2.75
Sikeston[3]	Mississippi	.58	.41	.01	.01	.50	....	.63	....	....	T.	.85	....	....	....	1.91	....	....	.18	.04	T.	T.	.27	T.	.22	....	....	....	....	....	T.	....	5.61
Steelville[2] ...2½ mi. NE	Meramec	.83	....	....	*	.45	....	.38	....	....	*	.38	....	....	....	.47	....	....	....	.10	....	T.	....	....	.10	....	....	T.	....	....	....	....	2.71
Sullivan[2]	....do	.29	T.	.03	.02	.35	....	.39	T.	....	.39	.10	....	....	....	.48	....	....	....	.09	.01	.02	.12	....	.19	T.	T.	.02	....	....	....	....	2.50
Summersville[2]	Black	.53	.11	....	....	.58	....	....	.54	....	....	.89	....	....	....	.71	....	....	T.	.23	T.	.07	.55	....	.10	....	T.	....	....	....	....	....	4.31
Union[2].......1½ mi. SE	Meramec	.11	....	....	....	.45	....	.20	....	....	.75	.27	....	....	....	.32	....	....	.02	.07	.02	.03	.07	....	.15	T.	.02	.03	....	....	....	....	2.51
Valley Park[2]	....do	.74	T.	T.	....	.40	....	.21	....	....	.71	.30	....	....	....	.48	....	....	T.	.09	....	T.	.17	....	.18	....	....	T.	....	....	....	....	3.28
Van Buren[2]	Black	....	.17	....	....	.50	....	....	.95	....	....	.47	....	....	....	.92	....	....	....	.18	....	.19	.50	....	....	....	....	....	....	....	....	....	3.88
Vichy[3] .....2 miles NW	Meramec	.10	....	T.	.25	....	.42	T.	....	.11	.39	....	....	....	.41	.01	....	....	.03	T.	T.	.12	.08	.05	.02	....	.03	....	....	....	....	....	2.02
Wappapello Dam[2]	St. Francis	.02	.27	.04	....	.53	....	.47	....	....	.01	.26	.02	....	T.	.92	....	....	.05	.09	T.	T.	.19	....	.15	....	....	T.	....	....	....	....	3.02
Webster Groves	Mississippi	.07	T.	.02	.26	.03	T.	.24	....	....	1.00	.07	....	....	.26	.13	....	....	.13	T.	T.	T.	.13	T.	.18	....	....	T.	....	....	....	....	2.52
Weingarten	....do	.40	.25	....	....	....	....	.42	....	....	.10	.70	....	....	.40	.10	....	....	.15	....	....	....	.60	....	*T.*	....	*T.*	....	....	....	....	....	3.12
West Plains[3]	Black	.08	T.	....	.41	....	.69	.02	....	....	.21	....	....	....	.98	....	....	.01	.24	.04	T.	.76	.06	.08	T.	....	...	....	....	T.	....	....	3.58
Williamsville[2]	....do	T.	.34	.03	....	.72	....	.42	....	....	....	.27	....	....	....	.87	....	....	*T.*	.04	....	....	.42	....	.29	....	....	....	....	....	....	....	3.40
Willow Springs[2] 500 ft E	White	....	.13	....	....	.45	....	.59	....	....	....	.78	....	....	....	.80	....	....	.06	.20	....	.11	.53	....	.11	....	....	....	....	....	....	....	3.76
Winona Ranger Sta.[2]	Black	.10	.16	....	.20	.15	....	.52	....	.10	....	.14	....	....	....	.76	....	....	.07	.09	.05	....	.77	....	....	T.	....	....	....	....	....	....	3.11
Zalma[2]	Mississippi	.06	.46	.04	T.	.55	....	.41	....	....	....	.49	....	....	....	.92	....	....	....	.04	T.	....	.32	....	.19	....	....	....	....	....	....	....	3.48
Cairo, Ill.[1], [5]	....do	.20	.03	.03	.40	....	....	.53	....	....	1.13	.05	....	....	.97	.04	....	....	.06	.01	....	.10	.03	.15	.04	....	T.	T.	....	T.	....	....	3.77
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....

Except as otherwise indicated, amounts are for 24 hours ending late in afternoon. [1] Midnight to midnight. [2] Measured in the morning; for the preceding 24 hours. [3] Data for 24 hours ending 12:30 A. M. (C. S. T.) of following day. [5] Recording gage. T. Trace or 0.005 inch or less. * Included in next measurement. // Windshield on gage. Italics data interpolated. § Partly interpolated. (A) Record from cooperative station gage. (B) Record from river station gage. (C) Airport. ‡ Received too late to be included in means and extremes.

Daily Evaporation (inches), Mean Temperature (F°), and Wind Movement (miles) for November 1947

(See precipitation data in daily precipitation table)

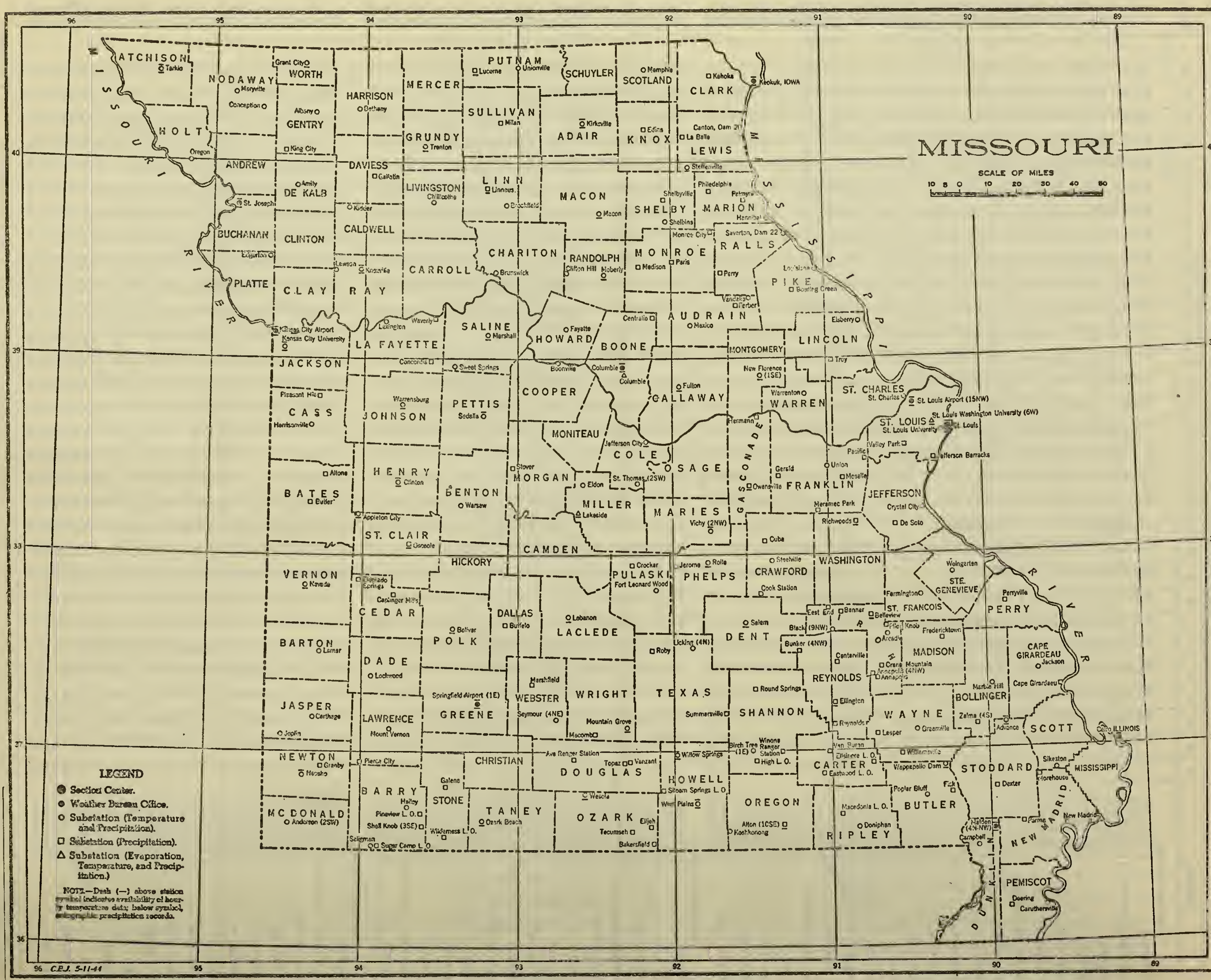
Station	Data	Day of month																															Monthly
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	.	
Columbia (Univ. of Mo. Hort. Exp. Sta. 9 mi. WNW.)	Evaporation	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.....
	Mean temperature	54	54	50	56	48	50	50	36	39	44	33	32	34	36	40	36	33	34	36	46	46	38	27	28	32	28	36	41	38	24	..	39.4
	Wind movement	31	19	1	51	128	77	215	124	23	71	72	28	37	58	135	78	11	16	28	29	72	72	25	133	130	4	78	85	45	34	..	1,910
Lakeside (Osage Dam)	Evaporation	.020	.059	.037	.038	.143	.109	.220	.148	.130	.017	.033	.040	.071	.075	.028	.035	.060	.032	.006	.013	.028	.018	.036	.009	.079	.073	.004	.057	.086	*	....	1.763
	Mean temperature	54	57	53	59	53	51	44	44	42	48	40	36	41	41	46	43	35	36	38	44	48	34	36	36	35	36	39	45	36	29	..	42.6
	Wind movement	72	70	26	29	152	42	193	168	96	34	101	16	21	38	99	146	30	25	24	25	56	38	52	97	140	48	31	70	37	31	..	2,007
St. Louis (Washington University)	Evaporation	.000	.038	.027	.024	.024	.047	.081	.080	.062	.004	.022	.042	.039	.027	.000	.025	.037	.029	.000	.001	.007	.000	.029	.000	.014	*	.032	.016	.034	*	....	0.767
	Mean temperature	54	53	53	54	51	49	44	40	42	44	38	36	34	38	40	36	36	34	38	46	46	39	35	34	31	30	38	42	32	26	..	40.4
	Wind movement	54	77	43	14	59	35	61	59	40	23	65	25	44	43	40	43	50	46	40	17	19	32	45	41	55	43	21	48	39	54	..	1,275

Observations taken at 8:00 a. m. except at 5:00 p. m. at Columbia. For Lakeside and St. Louis (Washington University) descriptions see April 1932 and August 1938 reports, respectively. * Included in next measurement.

Daily Temperatures for November 1947

Stations		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	..	Mean
Northern Division																																	
Brunswick /	Maximum..	57	56	58	64	56	64	45	44	50	38	41	36	42	44	42	43	38	46	44	53	51	32	34	38	33	36	44	56	31	37	..	45.1
	Minimum ..	51	51	46	49	42	37	38	32	28	28	22	22	26	28	35	30	30	29	32	32	40	31	20	22	23	25	30	30	28	15	..	31.7
Chillicothe 2 mi ESE(C)	Maximum..	55	53	58	59	55	63	48	43	47	37	41	35	40	40	41	42	37	43	43	52	50	32	33	38	37	34	42	54	35	37	..	44.1
	Minimum ..	50	47	44	44	37	34	31	28	30	30	18	25	25	31	35	29	30	30	31	38	32	21	18	21	23	27	32	30	18	14	..	30.1
Columbia	Maximum..	57	61	58	66	57	67	47	44	52	54	45	41	43	46	43	42	40	39	43	54	53	50	38	39	40	36	45	55	43	37	..	48.2
	Minimum ..	52	50	51	48	41	39	38	31	36	32	28	27	29	31	36	31	31	34	34	40	44	25	22	25	27	28	33	32	23	16	..	33.7
Fayette	Maximum..	57	58	58	65	57	66	63	50	44	44	44	39	42	42	45	42	40	40	42	55	52	50	35	36	39	34	44	55	48	37	..	47.4
	Minimum ..	50	50	41	49	41	33	36	26	30	33	22	19	25	33	37	30	28	32	30	38	42	28	18	23	25	24	29	28	24	12	..	31.2
Grant City	Maximum..	56	53	52	53	55	59	54	40	41	37	38	35	33	42	38	39	38	42	41	44	47	35	32	31	38	35	49	53	44	38	..	43.1
	Minimum ..	46	40	42	49	38	37	31	31	26	27	14	19	20	29	30	29	28	31	31	36	35	17	15	18	18	24	30	28	19	14	..	28.4
Hannibal	Maximum..	56	59	58	60	56	61	55	44	47	42	41	38	36	41	44	40	38	38	44	51	51	47	34	35	35	36	41	49	35	38	..	45.0
	Minimum ..	49	48	48	46	41	35	33	30	29	30	21	24	23	28	37	30	28	30	28	36	40	23	23	24	22	22	28	20	16	10	..	30.1
Kansas City Airport	Maximum..	54	55	60	59	60	67	46	48	47	40	44	38	47	41	45	43	36	43	42	53	48	33	36	40	42	42	47	58	39	42	..	46.5
	Minimum ..	51	50	50	42	38	40	34	32	32	30	23	28	30	37	36	32	33	34	36	41	31	24	23	22	30	33	35	32	24	21	..	33.5
Kirksville	Maximum..	54	57	59	60	56	60	57	40	45	41	47	34	35	39	39	39	37	42	43	50	49	48	32	32	27	32	39	50	44	33	..	44.0
	Minimum ..	49	48	43	48	43	35	34	28	27	30	17	23	21	29	34	30	29	30	32	36	42	25	18	21	18	22	30	21	17	12	..	29.7
Lathrop	Maximum..	54	54	61	60	58	64	63	46	51	38	41	36	41	39	41	44	38	45	43	50	48	33	32	35	37	38	45	57	41	39	..	45.7
	Minimum ..	50	48	44	43	34	36	32	26	28	30	16	23	24	34	33	26	30	30	34	38	30	22	17	20	25	28	32	25	25	15	..	29.9
Louisiana	Maximum..	58	61	60	60	58	61	61	58	51	53	43	42	40	42	46	43	42	38	47	55	51	50	37	39	37	37	42	51	47	35	..	48.2
	Minimum ..	50	50	49	47	45	30	38	32	28	36	27	22	21	29	39	32	32	32	26	35	43	32	20	26	24	21	26	23	23	10	..	31.6
Macon /	Maximum..	56	58	57	63	57	63	46	42	47	37	42	37	38	44	41	43	36	41	43	52	49	31	33	36	29	40	44	52	31	*34*	..	§44.1
	Minimum ..	49	48	43	45	42	32	35	27	27	31	17	20	24	25	32	29	28	29	27	28	38	29	17	21	20	23	26	23	19	11	..	28.8
Maryville	Maximum..	52	52	58	53	53	61	55	40	41	35	39	32	35	42	37	37	35	40	40	45	47	39	31	32	37	39	43	53	45	38	..	42.9
	Minimum ..	48	46	47	41	35	39	29	25	26	29	13	17	18	31	30	27	27	30	32	35	39	18	11	9	18	23	29	25	19	12	..	27.6
Mexico /	Maximum..	57	60	57	62	54	64	46	43	50	53	43	39	38	45	41	39	37	36	42	55	50	32	37	38	29	42	43	53	30	36	..	45.0
	Minimum ..	50	50	47	49	42	28	33	30	26	33	24	24	24	27	33	29	26	29	28	30	40	31	21	26	23	23	28	26	24	12	..	30.5
Moberly / .... 3½ mi. NE	Maximum..	57	59	56	64	55	64	45	43	49	38	41	37	40	44	41	41	36	39	40	53	51	35	34	37	30	38	42	52	30	35	..	44.2
	Minimum ..	50	49	45	48	42	34	36	29	30	35	20	22	25	27	33	30	28	29	28	30	39	28	20	22	23	23	29	26	22	14	..	30.5
Oregon	Maximum..	52	52	59	53	57	62	58	45	44	34	42	34	38	44	41	40	38	41	41	47	45	31	31	39	39	42	44	57	34	41	..	44.2
	Miuimum ..	49	47	48	40	34	34	30	27	29	24	15	21	26	32	32	27	29	32	34	36	28	17	16	16	22	30	34	26	18	15	..	28.9
St. Charles	Maximum..	56	57	57	56	58	62	58	49	51	54	51	46	38	42	46	44	39	37	46	53	52	51	39	41	38	35	47	51	46	33	..	47.8
	Minimum ..	51	49	50	53	44	36	41	33	31	42	32	26	28	32	40	32	33	32	29	36	41	33	29	28	26	22	28	28	26	15	..	34.2
St. Joseph Airport	Maximum..	55	54	62	56	58	64	46	46	46	35	44	36	40	43	42	42	39	45	44	50	46	32	35	40	40	41	45	57	37	42	..	45.4
	Minimum ..	51	49	50	42	37	38	31	29	30	26	17	25	28	35	32	28	30	33	36	39	28	19	18	18	25	30	31	26	20	17	..	30.6
Trenton	Maximum..	57	54	60	58	58	62	58	50	46	40	43	36	37	40	41	42	39	42	43	50	54	44	32	37	31	39	44	55	50	38	..	46.0
	Minimum ..	51	49	45	46	44	36	44	29	28	30	16	24	28	30	34	29	31	32	32	34	42	25	18	21	23	24	34	28	21	9	..	31.2
Unionville /	Maximum..	54	55	60	55	55	60	43	40	43	32	31	33	34	39	38	40	38	42	40	49	50	30	32	35	28	37	38	50	30	35	..	41.5
	Minimum ..	47	46	42	45	41	33	31	26	25	30	12	15	15	22	31	30	28	29	29	32	36	22	15	19	16	16	21	18	14	9	..	26.5
Warrenton	Maximum..	57	59	56	57	59	64	61	47	57	53	42	41	39	39	42	44	37	35	42	55	50	48	38	40	37	34	48	52	51	35	..	47.3
	Minimum ..	50	54	49	50	40	33	37	28	24	33	29	23	25	30	39	30	27	29	26	35	43	30	26	26	25	21	29	29	26	10	..	31.9
Keokuk, Iowa	Maximum..	55	59	58	61	54	58	56	41	41	37	39	35	34	41	42	39	35	42	44	50	53	37	34	33	34	33	38	47	30	34	..	43.1
	Minimum ..	51	50	48	47	40	38	33	30	29	31	20	24	24	32	38	32	31	31	31	40	37	25	24	24	20	24	23	21	17	13	..	30.9
Southwestern Division																																	
Clinton	Maximum..	57	64	60	65	61	69	47	48	53	52	46	42	53	45	49	48	39	41	43	55	52	39	37	37	42	41	47	59	41	43	..	49.2
	Minimum ..	52	49	47	42	39	37	36	31	33	32	28	26	32	41	34	30	33	36	37	41	39	24	22	25	32	31	33	30	23	17	..	33.7
Eldon	Maximum..	55	63	58	66	61	68	60	47	52	55	46	44	49	44	47	48	47	39	42	50	..	..	..	45	40	37	46	57	51	41	..	^{c}50.3
	Minimum ..	50	49	45	49	39	35	36	32	28	34	29	26	28	34	38	29	28	32	34	34	..	..	..	25	28	27	31	30	21	15	..	^{c}32.8
Harrisonville /	Maximum..	51	55	61	60	61	67	41	48	49	39	45	44	50	44	50	43	36	44	43	54	50	34	35	37	40	43	49	60	40	42	..	47.2
	Minimum ..	50	49	48	48	37	37	33	30	31	32	21	21	26	30	36	29	29	31	34	35	40	26	19	23	22	31	33	29	29	20	..	32.0
Jefferson City	Maximum..	56	61	58	64	59	68	61	47	51	55	45	43	46	43	47	45	40	38	42	58	53	51	40	41	40	36	45	57	48	38	..	49.2
	Minimum ..	50	50	48	47	40	32	37	30	25	36	28	23	27	33	38	31	29	31	33	34	42	29	22	25	26	25	27	29	25	14	..	32.2
Joplin Airport	Maximum..	56	56	61	63	63	71	47	52	63	56	45	47	57	47	52	52	42	42	48	53	52	42	41	42	45	48	54	58	51	45	..	51.7
	Minimum ..	51	50	50	45	36	42	34	32	41	32	29	27	34	39	36	28	34	36	38	38	42	26	27	26	31	34	37	29	25	20	..	35.0
Lamar /	Maximum..	56	55	61	66	67	71	51	55	64	57	47	47	58	42	57	57	41	42	44	50	52	36	40	42	49	52	52	60	41	47	..	52.0
	Minimum ..	49	48	48	49	33	33	33	28	28	37	28	25	25	31	35	26	27	32	34	36	37	29	22	23	23	30	34	27	27	16	..	31.8
Lebanon	Maximum..	54	59	59	66	63	66	59	50	59	56	47	49	55	48	50	53	46	39	42	46	50	50	40	41	43	42	48	55	52	46	..	51.1
	Minimum ..	49	47	47	50	38	35	35	32	29	47	29	26	29	39	38	28	27	33	35	38	42	30	27	23	30	31	31	28	30	14	..	33.9
Lexington /	Maximum..	55	54	60	63	58	67	45	45	48	34	43	38	44	43	43	43	37	45	43	52	51	31	34	38	36	39	45	57	34	39	..	45.5
	Minimum ..	51	49	48	49	38	38	35	30	30	34	20	21	27	30	36	29	30	30	34	35	40	26	21	23	22	23	33	32	29	17	..	32.0
Marshall	Maximum..	56	55	57	64	57	66	65	45	50	50	43	43	43	42	45	43	41	40	44	53	51	50	35	34	38	36	53	57	50	39	..	48.2
	Minimum ..	50	45	49	49	38	37	35	30	25	27	23	24	28	33	31	30	29	33	31	34	42	26	23	21	26	23	30	36	26	15	..	31.6
Mountain Grove	Maximum..	56	59	56	57	61	65	59	49	63	59	49	55	50	45	50	53	50	43	43	45	50	50	38	40	45	42	48	56	52	43	..	51.0
	Miuimum ..	49	48	48	49	40	42	35	30	34	46	30	27	29	38	38	29	28	32	34	37	42	33	30	25	29	30	31	30	37	16	..	34.9
Neosho	Maximum..	56	57	61	66	65	71	66	55	63	59	48	53	59	51	54	54	49	43	47	58	53	53	44	44	48	52	52	61	59	51	..	55.1
	Minimum ..	51	51	51	45	32	38	34	32	33	38	31	22	33	40	38	24	35	37	39	33	48	33	30	26	27	32	33	25	33	17	..	34.7
Nevada	Maximum..	57	55	61	62	65	70	66	53	52	57	47	48	59	46	55	53	46	44	44	53	52	52	38	40	45	50	51	60	55	47	..	52.8
	Minimum ..	51	51	50	52	36	43	38	30	31	32	29	24	32	41	38	25	32	36	38	39	42	29	21	24	29	32	34	27	32	18	..	34.5
Sedalia	Maximum..	56	56	57	63	59	67	66	46	50	45	44	40	46	44	46	43	59	40	44	54	53	50	37	37	39	36	45	56	51	41	..	48.3
	Minimum ..	50	54	44	51	39	40	36	30	31	33	26	26	29	36	37	30	31	33	34	38	43	28	22	24	31	29	32	29	29	15	..	33.7
Springfield.... 4 mi. NW	Maximum..	53	58	59	65	60	66	49	48	62	54	43	48	52	46	49	50	42	39	41	43	50	49	41	39	42	41	47	57	49	43	..	49.5
	Miuimum ..	49	49	47	42	38	43	33	33	34	31	29	27	32	39	35	29	31	34	36	39	43	28	29	25	32	32	31	30	32	18	..	34.3
Warrensburg	Maximum..	54	55	59	63	60	68	65	47	49	44	43	40	47	44	47	47	39	42	42	53	51	50	35	36	38	39	44	57	50	38	..	48.2
	Minimum ..	50	50	48	52	38	39	36	30	31	33	24	28	31	37	37	30	31	35	35	35	43	27	23	35	31	30	32	30	29	18	..	33.9
Southeastern Division																																	
Arcadia /	Maximum..	60	60	60	55	64	65	50	58	64	50	45	63	50	50	55	55	48	37	45	60	51	60	42	45	45	39	53	56	54	40	..	52.6
	Minimum ..	50	49	49	47	40	30	30	31	25	29	32	22	22	28	37	30	26	27	33	34	35	44	26	29	28	24	27	30	33	15	..	32.1
Birch Tree.... ½ mile E	Maximum..	57	62	58	55	65	64	58	53	64	59	56	58	52	49	50	55	47	41	42	47	50	50	45	42	47	45	53	58	52	46	..	52.7
	Minimum ..	50	50	50	50	38	31	38	26	25	47	32	20	28	38	40	25	26	33	35	40	43	37	32	32	27	33	29	24	33	15	..	34.2
Caruthersville	Maximum..	69	59	59	61	65	67	63	56	68	61	59	52	50	50	63	58	55	47	46	52	53	57	53	51	56	48	56	57	58	54	..	56.8
	Miuimum ..	56	54	53	48	44	41	46	33	35	49	39	29	35	43	47	34	33	38	40	43	43	50	37	40	30	31	32	34	34	25	..	39.9
Crystal City	Maximum..	54	58	57	56	62	66	62	52	60	55	51	56	45	39	45	51	47	41	44	57	53	52	40	42	40	35	49	56	50	37	..	50.4
	Minimum ..	50	49	50	51	42	31	41	31	26	45	33	22	27	33	32	30	33	31	32	36	38	33	30	30	26	22	32	29	27	15	..	33.6
Doniphan	Maximum..	62	61	62	58	69	68	57	58	68	57	53	59	50	48	60	62	51	42	47	51	51	55	44	47	54	47	57	62	58	49	..	55.6
	Minimum ..	53	52	52	49	36	31	42	26	25	49	34	21	29	38	44	25	25	37	36	37	40	41	34	32	25	32	28	24	28	18	..	34.8
Farmington	Maximum..	53	54	57	56	61	64	66	54	65	55	50	56	46	42	52	50	43	38	43	57	51	52	38	42	42	36	48	50	48	38	..	50.2
	Minimum ..	48	46	47	49	39	30	38	27	25	46	30	21	25	32	40	30	27	30	31	35	38	33	28	27	24	20	30	30	29	14	..	32.3
Jackson	Maximum..	55	57	58	56	66	66	60	57	62	56	52	56	51	46	59	56	49	41	45	58	52	54	41	44	49	38	55	55	49	39	..	52.7
	Minimum ..	51	50	50	52	41	33	44	30	27	49	35	23	28	36	44	26	28	36	35	35	36	40	31	33	29	23	33	30	33	18	..	35.3
Poplar Bluff	Maximum..	59	57	59	57	68	68	57	57	68	58	53	57	49	47	60	60	50	45	48	51	52	55	48	47	53	44	57	60	57	49	..	55.0
	Minimum ..	54	52	50	48	40	33	43	30	27	49	36	24	30	37	41	29	29	37	36	41	37	48	34	38	27	30	28	28	33	21	..	36.3
Rolla /	Maximum..	56	56	54	61	61	66	42	56	56	52	40	43	47	42	49	49	35	37	45	45	58	38	38	37	37	41	44	51	34	41	..	47.0
	Minimum ..	50	49	49	51	38	35	36	32	29	45	30	28	28	33	39	28	30	32	33	36	39	34	27	26	27	27	29	30	30	17	..	33.9
St. Louis	Maximum..	57	57	56	57	57	62	55	47	54	54	42	46	39	44	47	41	42	38	46	55	52	52	39	42	39	37	45	52	46	35	..	47.8
	Minimum ..	52	48	51	51	44	42	37	34	36	36	32	31	29	34	41	35	33	33	34	42	43	31	30	28	27	26	32	32	23	16	..	35.4
Salem	Maximum..	55	56	61	56	61	65	57	50	63	56	50	52	52	45	49	50	40	38	43	55	55	50	38	41	43	38	47	56	48	41	..	50.4
	Minimum ..	50	49	51	53	38	32	38	32	28	50	30	22	28	38	40	30	25	33	34	37	41	32	29	29	28	27	31	30	35	16	..	34.5
Sikeston /	Maximum..	55	56	57	57	64	67	54	56	65	55	44	55	47	53	60	57	47	43	45	55	54	55	44	48	52	39	56	56	49	38	..	52.8
	Minimum ..	52	51	51	50	41	39	42	32	33	42	36	26	28	31	44	32	29	31	37	37	39	43	34	35	28	27	30	32	33	21	..	36.2
Union .... 1½ mi. SE	Maximum..	56	58	59	57	58	66	60	48	54	54	58	41	48	43	47	45	39	43	43	55	54	52	40	42	40	36	47	53	49	36	..	49.4
	Minimum ..	51	50	50	51	41	31	40	31	25	45	31	22	28	33	40	30	30	32	33	39	42	33	28	27	26	22	30	32	28	14	..	33.8
West Plains	Maximum..	54	59	60	56	64	65	52	52	68	53	44	58	49	48	55	56	45	39	42	47	50	50	40	42	49	45	52	58	61	45	..	51.9
	Minimum ..	51	51	51	46	35	31	31	29	26	37	25	22	30	39	31	27	27	33	35	40	45	34	33	27	26	34	27	26	29	20	..	33.3
Cairo, Ill.	Maximum..	56	56	57	59	62	65	57	55	63	56	53	52	46	53	57	54	47	43	46	57	54	56	44	47	48	38	53	52	48	35	..	52.3
	Minimum ..	55	52	52	54	45	43	41	37	37	51	34	32	32	40	42	36	34	37	38	43	43	39	36	32	30	28	36	33	30	22	..	38.8

/ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs. ^{a}, ^{b}, ^{c}, etc., number of days missing, for example, ^{b} indicates two days missing. Italics data interpolated. § Partly interpolated. (C) Airport.


MISSOURI
SCALE OF MILES
10 8 0 10 20 30 40 50
LEGEND
● Section Center.
● Weather Bureau Office.
○ Substation (Temperature and Precipitation).
□ Substation (Precipitation).
△ Substation (Evaporation, Temperature, and Precipitation.)
NOTE.—Dash (—) above station symbol indicates availability of hourly temperature data; below symbol, autographic precipitation records.
C.P.J. 5-11-44
96
95
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MISSOURI RIVER
MISSISSIPPI RIVER
ILLINOIS
Keokuk, IOWA
ATCHISON
NODAWAY
WORTH
HARRISON
MERCER
PUTNAM
SCHUYLER
SCOTLAND
CLARK
HOLT
GENTRY
SULLIVAN
ADAIR
KNOX
LEWIS
ANDREW
DAVIESS
GRUNDY
LINN
MACON
SHELBY
MARION
DE KALB
LIVINGSTON
CALDWELL
BUCHANAN
CLINTON
CHARITON
RANDOLPH
MONROE
RALLS
PLATTE
CLAY
RAY
CARROLL
PIKE
AUDRAIN
SALINE
HOWARD
BOONE
LINCOLN
LA FAYETTE
JACKSON
MONTGOMERY
ST. CHARLES
COOPER
CALLAWAY
WARREN
CASS
JOHNSON
PETTIS
MONITEAU
ST. LOUIS
COLE
OSAGE
GASCONADE
FRANKLIN
JEFFERSON
HENRY
BENTON
MORGAN
MILLER
MARIES
BATES
ST. CLAIR
CAMDEN
HICKORY
PULASKI
PHELPS
CRAWFORD
WASHINGTON
STE. GENEVIEVE
VERNON
CEDAR
DALLAS
LACLEDE
DENT
ST. FRANCOIS
PERRY
POLK
IRON
MADISON
CAPE GIRARDEAU
BARTON
DADE
REYNOLDS
BOLLINGER
JASPER
LAWRENCE
GREENE
WEBSTER
WRIGHT
TEXAS
SHANNON
WAYNE
SCOTT
NEWTON
CHRISTIAN
DOUGLAS
HOWELL
CARTER
STODDARD
MISSISSIPPI
MC DONALD
BARRY
STONE
TANEY
OZARK
OREGON
RIPLEY
BUTLER
NEW MADRID
DUNKLIN
PEMISCOT

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U. S. DEPARTMENT OF COMMERCE, WEATHER BUREAU

CLIMATOLOGICAL DATA

MISSOURI SECTION

H. F. WAHLGREN
ST. LOUIS, MO.

VOL. LI — DECEMBER 1947 — No. 12

PRICE: 5 CENTS A COPY; 25 CENTS A YEAR

GENERAL SUMMARY

December averaged considerably warmer and slightly drier than normal. It was a favorable month for seasonal outdoor activities.

The mild weather during the month was state-wide, all three divisions of the State averaging 3° to 4° warmer than their respective normals, and all but two individual stations had a monthly average temperature higher than normal. The Southeastern and Southwestern divisions had the highest averages with 39.3° and 39.2°, respectively; these averages are 3.0° and 4.0°, respectively, warmer than normal for those divisions. The average for the Northern Division was 34.7°, or 4.0° warmer than normal. Extremes of temperature for the month were well within the all-time records established in past Decembers. No zero, or below, temperatures were recorded this month, the lowest reported being only 7°, which is the second highest minimum temperature for December in the past 61 years. In December 1931 the minimum temperature was 11°. In only eight of the past 61 Decembers has the temperature failed to drop to zero, or below, at some place in the State. The 7th, 8th, and 29th were the warmest days during the month, while the 12th, 13th, and 16th were the coldest days, as a rule. Warm periods occurred from the 1st to 7th, 17th to 22d and 26th to 31st, while the only extended cold period occurred from the 8th to the 13th, generally.

Precipitation occurred in practically all of its varied forms, at different times during the month, but rain constituted the greater part of it. The distribution of the month's precipitation was very irregular, ranging from a total of 6.12 inches, near Alton, to only 0.18 inch at Waynesville. There was very little precipitation after the middle of December, until the 31st, when a general rain, that turned to glaze, sleet and snow, began and continued into January. Extensive damage to trees, and power and communication lines resulted from this glaze and sleet storm, but since it extended into January details will be presented in the January issue of this publication. Snowfall during December was relatively light, particularly over the Southwestern Division, where the average for the month was only 0.4 inch. Several stations in that area reported no snow during the month. Heaviest falls occurred over scattered areas of the Northern Division and over much of the Southeastern Division, except the northwestern and extreme southeastern portions of the latter division. The snow melted rather quickly and the ground was not covered for more than a few days, after the 9th, at any place. Rather heavy to excessive amounts fell within a 24-hour period on the 3d-4th at a number of stations in the Northern and Southwestern divisions, and over the southeastern half of the State on the 31st. At Kansas City Airport, 2.75 inches fell within 24 hours on the 3d-4th, establishing a new record there for that period of time, in December. The average precipitation by divisions, with departures from normal, for the month, were as follows: Northern, 2.11 inches, +0.52 inch; Southwestern, 1.28 inches, —0.77 inch; Southeastern, 2.12 inches, —0.76 inch; for the State, 1.84 inches, —0.33 inch.

(Continued on page 91)

PRESSURE, WIND, HUMIDITY, AND SUNSHINE

Stations	Sea-level pressure, extremes-inches				Wind				Relative humidity				Percentage of sunshine	Degree days
	Highest	Date	Lowest	Date	Average hourly velocity	Maximum velocity ¶	Direction of maximum	Date	12:30 a. m.	6:30 a. m.	12:30 p. m.	6:30 p. m.		
Columbia	30.44*	24	29.45*	7	7.5	26	sw.	7	72*	79*	61*	64*	51	823
K. C. Airport..	30.49	24	29.45	7	10.7	35	sw.	7	78	85	64	68	55	859
St. Joseph Ap't	30.47	24	29.44	7	8.1	30	sw.	7	65	84	82	74	52	946
St. Louis ...	30.43*	24	29.49*	7	11.4	33	s.	7	76*	77	64	73*	56	811
Springfield ...	30.41	25	29.45	31	12.1	36	s.	4	82	88	66	70	52	820
Cairo, Ill.	30.46	1	29.41	31	8.8	24	sw.	4	..	84	66	..	62	755
....	.....	..	.....	..	....	..	......	..	..	..	..	..	..	..

* Data for Airport station. ¶ For 5-minute period.

COMPARATIVE DATA FOR DECEMBER

Year	Temperature			Precipitation					Number of days			
	Average for State	Highest	Lowest	Average for State	Average, Northern Division	Average, Southwestern Division	Average, Southeastern Division	Snowfall, Average for State	Precip. .01 inch or more	Clear	Partly cloudy	Cloudy
1888	35.9	70	0	2.43	1.88	3.03	2.39	....	6	..	..	..
1889	46.8	80	2	1.09	0.60	0.85	1.82	0.1	3	..	..	..
1890	36.0	76	− 3	1.18	0.82	1.14	1.57	4.6	3	..	..	..
1891	39.8	72	− 1	1.88	1.91	1.67	2.05	....	6	..	..	..
1892	29.4	75	−22	2.50	1.69	2.76	3.04	4.8	6	8	7	16
1893	35.2	76	− 7	0.97	0.80	0.67	1.44	2.7	5	11	11	9
1894	36.7	75	− 7	2.41	1.19	2.33	3.70	1.3	5	14	8	9
1895	34.3	69	− 8	6.40	5.12	8.57	5.50	3.4	8	9	8	14
1896	38.6	79	− 5	0.92	0.84	1.17	0.75	T.	3	13	8	10
1897	29.3	74	−14	3.03	1.92	2.98	4.19	6.3	7	8	8	15
1898	28.7	74	−20	1.65	1.62	1.84	1.48	5.1	5	17	6	8
1899	30.4	75	−13	2.22	1.90	2.02	2.74	6.6	9	12	9	10
1900	35.6	68	− 3	0.79	0.47	0.55	1.35	0.6	4	14	8	9
1901	28.5	71	−29	3.20	2.26	2.98	4.35	6.9	8	11	7	13
1902	30.7	68	− 7	3.32	2.02	2.76	5.18	3.1	8	10	4	17
1903	30.2	65	−11	1.70	1.05	1.56	2.49	2.3	5	16	7	8
1904	32.9	75	−10	1.55	1.56	1.24	1.84	6.0	5	16	7	8
1905	33.3	66	− 2	1.71	0.79	1.44	2.89	1.7	4	18	6	7
1906	36.1	73	0	2.52	1.67	1.85	4.05	0.6	8	8	6	17
1907	37.7	76	3	1.75	1.22	1.69	2.34	3.7	7	11	7	13
1908	38.4	80	− 4	0.78	0.54	0.94	0.86	T.	3	16	7	8
1909	24.9	76	−17	2.87	2.82	2.80	3.00	7.7	8	12	6	13
1910	31.2	67	− 5	1.49	0.94	1.14	2.40	2.4	4	16	5	10
1911	36.7	74	−11	2.85	2.74	2.56	3.26	5.1	7	13	6	12
1912	36.5	72	2	0.62	0.54	0.49	0.82	0.6	3	19	5	7
1913	38.3	74	− 3	2.26	2.11	2.84	1.83	6.6	7	9	4	18
1914	26.8	68	−18	2.51	1.69	2.20	3.65	6.6	9	7	5	19
1915	34.7	68	−13	2.99	1.48	2.45	5.03	7.8	6	12	6	13
1916	31.3	82	−29	1.92	0.78	1.54	3.44	4.4	6	15	6	10
1917	25.5	82	−23	0.76	0.41	0.75	1.13	7.3	5	11	7	13
1918	40.0	83	−12	3.23	2.27	2.81	4.62	7.8	7	13	6	12
1919	28.5	74	−22	0.72	0.41	0.66	1.08	0.7	3	12	4	15
1920	35.6	77	−10	2.12	1.25	1.49	3.61	2.3	5	13	7	11
1921	36.9	74	− 8	1.97	1.26	2.00	2.65	1.9	6	13	7	11
1922	36.3	75	− 6	2.27	0.75	1.71	4.35	0.2	6	15	6	10
1923	41.0	82	− 4	3.07	1.63	2.96	4.62	0.8	8	11	6	14
1924	27.7	80	−28	3.48	2.94	3.45	4.06	4.6	7	13	6	12
1925	31.6	69	−10	1.43	1.53	1.27	1.50	4.8	4	13	7	11
1926	32.6	75	−12	2.16	1.17	2.12	3.20	2.4	6	11	5	15
1927	29.9	74	−11	2.81	1.61	2.55	4.23	2.9	6	15	5	11
1928	36.2	81	0	2.29	1.37	2.49	3.00	1.4	5	14	6	11
1929	35.2	76	− 9	1.74	0.67	1.11	3.43	3.7	6	13	5	13
1930	34.2	70	2	1.24	0.79	1.35	1.57	1.9	5	15	6	10
1931	42.7	80	11	2.71	2.53	1.51	4.10	1.7	8	11	6	14
1932	31.2	77	−21	4.74	3.18	4.98	6.07	5.7	7	12	6	13
1933	39.1	78	− 7	1.92	1.52	1.67	2.56	0.4	5	12	7	12
1934	31.6	69	− 3	1.80	0.94	1.72	2.74	5.0	7	10	6	15
1935	30.7	66	−11	1.20	0.85	1.03	1.73	2.8	6	11	7	13
1936	38.4	69	− 7	2.83	2.19	2.71	3.60	2.2	7	12	7	12
1937	32.0	66	− 2	2.24	1.50	1.90	3.32	0.6	9	8	6	17
1938	35.9	72	2	1.83	1.66	1.52	2.32	0.2	6	15	7	9
1939	38.8	80	− 5	1.45	1.11	1.46	1.79	6.3	6	15	7	9
1940	38.6	78	− 2	2.59	1.77	2.33	3.66	1.7	8	10	5	16
1941	39.6	72	3	2.21	1.92	1.94	2.76	2.1	6	11	7	13
1942	32.7	76	− 4	4.01	3.38	4.32	4.34	7.4	10	8	7	16
1943	31.3	72	−20	2.10	1.88	2.38	2.04	6.8	6	12	6	13
1944	29.1	70	−14	2.26	2.05	1.88	2.86	5.1	8	8	7	16
1945	27.8	70	−20	1.39	1.87	0.96	1.34	7.9	8	10	7	14
1946	40.2	77	− 8	2.44	1.70	2.66	2.95	0.5	5	11	7	13
1947	37.7	73	7	1.84	2.11	1.28	2.12	1.1	5	13	8	10
....	....	..	....	....	....	....	....	....	..	..	..	..
Period	**34.2**	**83**	**−29**	**2.17**	**1.59**	**2.05**	**2.88**	**3.5**	**6**	**12**	**7**	**12**

NAT. HIST.

Climatological Data for December 1947

Stations	Counties	Elevation, feet	Temperature, in degrees Fahr.							Precipitation, in inches						Number of days				Prevailing direction of wind	Observers
			Length of record, years	Mean	Departure from the normal	Highest	Date	Lowest	Date	Length of record, years	Total	Departure from the normal	Greatest in 24 hours [4]	Date	Total snowfall, unmelted	With precip., .01 inch or more	Clear	Partly cloudy	Cloudy		
Northern Division																					
Albany	Gentry	930	6	34.6	......	62	2	12	16	18	1.83	+0.96	1.39	3-4	*1.0*	4	19	3	9	sw.	William J. Butler
Amity	DeKalb	1,007	1	34.5	......	64	2	11	16	12	2.44	+0.40	1.66	3-4	1.0	4	14	7	10	nw.	O. M. Colhour
Bethany	Harrison	916	52	33.8	+ 3.7	61	2†	11	16	54	0.48	−0.67	0.28	3	T.	2	20	1	10	se.	B. A. McGregor
Brookfield	Linn	767	6	34.5	......	64	2†	15	13†	6	2.13	......	1.54	3-4	2.2	4	16	4	11	n.	G. F. Breen
Brunswick	Chariton	652	66	34.8	+ 4.2	69	7	15	1	68	2.27	−0.60	1.67	3-4	1.1	5	14	6	11	ne.	O. K. Benecke
Canton, Lock & Dam 20	Lewis	488	9	34.4	+ 2.7	65	2	9	13	17	1.94	+0.31	1.20	3-4	1.6	4	12	6	13	nw.	Lockmaster
Carrollton	Carroll	754	1	35.8	......	64	2†	13	16	1	2.43	......	1.03	3-4	1.5	6	15	8	8	sw.	Harold E. Finley
Chillicothe 2 mi ESE (C)	Livingston	771	38	34.4	+ 4.5	63	2	13	16	41	2.64	+1.22	2.05	3-4	2.1	7	6	13	12	nw.	Civil Aeronautics Adm.
Columbia	Boone	740	57	38.4	+ 4.4	68	7	16	16	57	1.99	+0.13	1.32	31-1	0.4	5	10	10	11	s.	U. S. Weather Bureau
Conception	Nodaway	1,108	58	33.6	+ 4.4	61	2	12	10†	63	1.85	+0.97	1.65	3-4	0.6§	3	11	10	10	nw.	Fr. Adelhelm Hess
Edgerton	Platte	856	27	33.8	+ 3.4	64	2	11	16	44	2.38	+1.26	2.20	3-4	T.	3	5	18	8	n.	Leroy H. Mindrup
Elsberry	Lincoln	449	16	34.2	− 0.2	67	7	13	25	16	1.75	−0.46	1.30	3-4	0.8	4	11	7	13	s.	Soil Conservation Service
Fayette	Howard	760	67	36.6	+ 5.5	66	7	12	16	64	2.45	+0.79	1.83	3-4	0.8	5	14	5	12	w.	Irvin E. Schnell
Fulton	Callaway	818	59	36.6	+ 3.1	68	7	15	16	55	1.27	−0.74	1.12	3-4	0.3	4	21	3	7	s.	Frank E. Hillgartner
Grant City	Worth	1,134	43	32.4	+ 4.4	59	2	10	16	55	1.80	+0.74	0.99	3-4	1.8	5	20	2	9	w.	J. Homer Korn
Hannibal	Marion	759	55	33.8	+ 2.3	65	7	13	16	63	2.49	+0.95	0.87	7	1.2	5	11	7	13	nw.	Hannibal Water Dept.
Kansas City Airport	Jackson	741	58	37.2	+ 4.7	68	29	19	16	58	3.61	+2.41	2.75	3-4	1.7	6	10	9	12	sw.	U. S. Weather Bureau
Kansas City Univ.	Jackson	908	9	37.8	+ 3.0	67	29	15	16	9	3.22	+1.26	....	..	T.	5	10	10	11	sw.	University of Kansas City
Kidder	Caldwell	1,020	55	34.0	+ 4.8	62	2	12	9†	59	2.05	+0.78	1.84	3-4	0.4	5	17	5	9	sw.	Mrs. Geraldine Terry
Kirksville	Adair	969	58	33.7	+ 4.1	62	2†	12	13	65	2.10	+0.34	1.20	4	2.5	5	11	11	9	nw.	Dow Jones
Kirksville Airport	Adair	970	8	32.8	......	62	7	11	13	8	2.58	......	1.63	3.4	2.0	8	7	9	15	nw.	Civil Aeronautics Adm.
Lathrop	Clinton	1,071	0	35.6	......	64	2	13	16	0	2.49	......	1.26	3	0	4	20	4	7	w.	E. L. Fisher
Louisiana	Pike	469	53	36.6	+ 4.8	65	2	12	9	66	2.53	+0.63	1.67	3	1.8	5	12	7	12	n.	Stark Bro's Nurseries
Macon	Macon	875	48	32.8	+ 2.7	64	7	12	16	54	2.26	+0.62	1.68	3-4	3.0	4	12	3	16	nw.	John W. Atwell
Maryville	Nodaway	1,169	57	31.4	+ 4.6	60	2	10	16	53	2.08	+1.00	1.36	3-4	2.0	5	14	3	14	nw.	R. B. Montomery
Memphis	Scotland	787	8	31.6	......	63	7	11	13†	17	1.67	+0.39	1.35	3-4	1.5	4	14	8	9	nw.	John W. Alexander
Mexico	Audrain	800	58	34.0	+ 2.2	66	7	12	16	69	1.76	−0.15	1.55	3	0.5	3	11	16	4	nw.	Wendell W. Palmer
Moberly 3½ mi. NE	Randolph	860	10	....	......	..	..	..	..	10	....	......	....	..	....	..	..	..	..	......	Robert A. Berg
New Florence. 1 mi SE	Montgomery	885	4	36.0	......	67	7	13	16	5	2.29	......	1.08	31	0.4	6	10	2	19	sw.	U. S. Weather Bureau
Oregon	Holt	1,048	91	32.8	+ 4.1	63	2	13	16†	91	2.41§	+1.37	1.17	4	5.2	6	15	7	9	s.	James M. Curry
Polo	Caldwell	1,000	1	33.5	......	63	2	14	16†	1	2.49	......	2.08	3-4	0.2	4	17	5	9	sw.	F. B. Albright
St. Charles	St. Charles	520	59	38.6	+ 3.7	64	7	17	16	69	1.00	−0.79	0.59	3-4	0.8	4	12	6	13	nw.	Mrs. Myrtle Bregel
St. Joseph Airport	Buchanan	957	37	34.4	+ 4.8	65	2	14	16	75	2.89	+1.60	2.22	3-4	4.6	5	10	9	12	s.	U. S Weather Bureau
Salisbury	Chariton	723	1	36.0	......	65	2†	15	16	1	2.41	......	1.01	3-4	T.	4	12	4	15	s.	David H. Robertson
Saverton, Lock No. 22	Ralls	472	9	36.2	......	69	7	14	16	9	1.88	+0.01	1.32	3-4	*1.0*	5	15	10	6	nw.	Lockmaster
Shelbina	Shelby	779	6	35.9[a]	......	65[a]	7	11[a]	1	54	2.84	+1.30	1.04	3-4	2.5	5	13	5	13	nw	Guyman Hatcher
Steffenville	Lewis	650	49	34.6	+ 4.0	64	7	12	13	54	2.76	+1.07	1.00	3-4	2.7	5	12	5	14	nw.	Mrs. Fannie V. Gross
Tarkio	Atchison	916	44	31.3	+ 4.9	60	2	9	12	53	1.83	+0.87	0.87	4	3.2	5	0	17	14	s.	Civil Aeronautics Adm.
Trenton	Grundy	822	51	36.2	+ 6.6	69	29	14	16	52	1.90	+0.49	1.46	3-4	1.0	5	10	15	6	s.	W. H. Estes
Unionville	Putnam	1,062	54	30.6	+ 3.0	61	2†	9	13	54	2.14	+0.43	1.72	3-4	2.0	4	1	12	18	nw.	George D. Choate
Vandalia	Audrain	766	3	33.2[b]	......	..	..	9[b]	16	8	1.92§	......	....	..	1.0	5	14[h]	8[h]	1[h]	e.	Mrs. Naomi K. Stoutz
Warrenton	Warren	880	65	37.8	+ 5.4	67	4	14	16	57	2.00	−0.08	1.09	3-4	T.	5	14	11	6	w.	W. T. Zimmerman
Keokuk, Iowa	Lee, Ia.	574	75	35.1	+ 5.5	64	2†	14	13	75	1.79	+0.34	1.02	3-4	3.5	7	10	15	6	sw.	U. S. Weather Bureau
Division means	**and extremes**	.....	..	**34.7**	**+ 4.0**	**69**	**7†**	**9**	**12†**	..	**2.11**	**+0.52**	**2.75**	**3-4**	**1.4**	**5**	**12**	**8**	**11**	**nw.**	
Southwestern Division																					
Anderson ...1½ mi sw	McDonald	1,000	43	38.2	+ 0.7	71	29	9	16†	48	0.49	−1.86	0.20	31	0	4	15	4	12	n.	Samuel G. Chamberlain
Appleton City. 2 mi. w	Bates	813	52	38.8	+ 4.2	71	29	13	16	55	2.09	+0.50	1.41	3-4	0.5	5	15	8	8	sw.	F. Paul Eye
Bolivar	Polk	1,071	44	40.5	+ 4.9	68	29	16	16	52	1.33	−1.01	1.15	31	0	5	13	7	11	sw.	Southwest Baptist College
Boonville	Cooper	650	9	35.1	+ 2.8	65	7†	15	16	70	1.27	−0.43	1.15	3-4	0.5	5	13	2	16	sw.	Boonville Water Dept.
Butler	Bates	865	1	38.6	......	70	29	14	16	6	2.19	......	0.92	31	4.0	5	15	3	13	ne.	Harley W. Johnson
Camdenton	Pulaski	940	1	41.6	......	71	29	15	16	1	1.96	......	0.95	31	0	3	13	5	13	sw.	Mo. Conservation Com.
Carthage	Jasper	962	13	41.0	......	72	29	13	16	23	1.60	......	1.35	31	0	4	10	17	4	n.	Carthage W. and E. Plant
Clinton	Henry	786	54	38.4	+ 3.7	70	29	16	16	60	2.39	+0.52	1.21	31	T.	4	15	7	9	s.	U. S. Weather Bureau
Eldon	Miller	934	52	39.4	+ 5.1	69	29	15	16	48	1.80	+0.04	1.20	31	1.0	5	14	7	10	sw.	Arthur Rothwell
Harrisonville	Cass	904	69	36.1	+ 4.8	69	29	14	16†	72	3.69	+2.24	2.80	3-4	T.	5	10	12	9	sw.	Jeffrey B. Patterson
Jefferson City	Cole	557	57	38.2	+ 5.3	69	7	15	16	65	0.40	−1.54	1.10	31	0.4	3	16	7	8	sw.	K W. O. S. Radio Farm
Joplin Airport	Jasper	988	25	39.2	0.0	69	29	15	16	42	1.33	−0.56	1.18	31-1	T.	5	12	3	16	s.	Civil Aeronautics Adm.
Lakeside	Miller	595	16	38.6	+ 1.3	70	29	19	12†	16	0.56	−1.74	0.44	3-4	T.	3	14	6	11	sw.	W. S. Frame
Lamar	Barton	980	59	38.0	+ 2.8	72	29	12	16	66	0.30	−1.58	0.18	9	0	3	16	7	8	sw.	Mrs. Marie Mann
Lebanon	Laclede	1,265	59	40.7	+ 5.9	67	7†	14	16	60	1.43	−0.85	1.04	31	0	4	8	11	12	sw.	Mrs. Rosa E. Montelius
Lexington	Lafayette	688	62	35.6	+ 3.6	66	29	16	16	63	2.10	+0.51	1.66	3-4	1.0	6	14	7	10	sw.	William H. Cullon
Lockwood	Dade	1,078	41	41.3	+ 5.2	71	29	16	16	51	1.54	−0.60	1.51	31	0	2	16	7	8	sw.	Hubert A. Nieman
Marshall	Saline	779	60	38.1	+ 6.2	68	28†	15	16	57	2.78	+1.03	1.18	3	0.5	4	14	8	9	s.	Thomas A. Reid
Marshfield	Webster	1,484	2	37.2[i]	......	65[i]	29	13[i]	16	6	1.26	......	1.04	31	*T.*	3	15	6	10	s.	Sho-Me Power Co.
Monett	Barry	1,317	0	39.8	......	68	30	15	16	0	0.41	......	0.19	31	T.	5	13	11	7	s.	Mo. Univ. Fruit Exp. Sta.
Mountain Grove	Wright	1,463	46	40.7	+ 6.0	67	4	16	16	50	0.73	−1.68	0.30	15	0.8	5	14	9	8	nw.	Mo Fruit Exp. Station
Mount Vernon	Lawrence	1,174	35	40.3§	+ 4.8	70	29	14	16	47	0.34	−2.20	0.27	6-7	0	2	13	12	6	sw.	Arthur D. Ferrer
Neosho	Newton	1,011	60	40.8	+ 3.7	71	29	11	16	64	2.18	−0.10	1.86	31	*T.*	6	19	3	9	sw.	U. S. Fisheries Station
Nevada	Vernon	862	54	40.1	+ 4.8	73	29	12	16	55	2.05	+0.30	1.32	31	T.	5	13	4	14	sw.	Henry Kraft
Ozark Beach	Taney	700	7	40.4	......	73	8	15	14	22	0.96	−1.79	0.38	6-7	0	6	15	6	10	w.	Empire District Elec. Co.
Sedalia	Pettis	910	34	38.9	+ 5.0	69	29	15	16	36	2.22	+0.94	1.43	3-4	0.7§	5	14	5	12	sw.	Dr. J. E. Cannaday
Seligman	Barry	1,542	46	41.4	+ 4.1	69	29	14[a]	16	44	0.67	−1.53	0.37	14-15	*T.*	2	14[a]	11[a]	5[a]	s.	Floyd E. Fawver
Seymour ....4 miles NE	Webster	1,642	41	37.6§	+ 2.2	67	7	14	16†	41	0.39	−1.87	0.21	15	1.0	3	17[a]	6[a]	7[a]	sw.	Ira H. Hailey
Springfield...4 mi. NW	Greene	1,265	59	38.6	+ 3.1	68	29	14	16	59	1.67	−0.64	1.47	31-1	T.	7	11	6	14	s.	U. S. Weather Bureau
Sweet Springs	Saline	700	6	37.8§	......	68	18	13	16	6	2.54	......	0.96	3	*T.*	4	13	10	8	nw.	H. F. Nelson
Warrensburg	Johnson	878	60	38.8	+ 5.4	68	29	17	16	67	1.99	+0.45	0.82	3-4	*T.*	3	14	9	8	sw.	Central Teachers College
Warsaw	Benton	687	46	40.1	+ 4.4	71	29	13	16	52	1.32	−0.80	0.66	31	*T.*	4	15	2	14	nw.	Dora B. Johnson
Wasola	Ozark	1,294	6	40.9§	......	68	29†	17	16	7	1.30	......	0.44	15	*T.*	6	14	12	5	n.	A. W. Pinckney
Waynesville...1¼ mi. E	Pulaski	805	1	41.2[a]	......	68	7†	12	16	1	0.18	......	0.10	4	*T.*	3	15[a]	12[a]	3[a]	s.	Fred M. Sanderson
Division means	**and extremes**	.....	..	**39.2**	**+ 4.0**	**73**	**8†**	**9**	**16†**	..	**1.28**	**−0.77**	**2.80**	**3-4**	**0.3**	**4**	**14**	**7**	**10**	**sw.**	
Southeastern Division																					
Advance.... ¼ mile W	Stoddard	354	10	38.0	+ 1.5	66	30	17	1	10	4.98	+2.08	2.62	31	1.0	5	14	4	13	s.	U. S. Weather Bureau
Arcadia	Iron	926	66	37.7	+ 3.4	72	27	13	16	69	1.03	−1.82	0.38	4	*2.0*	5	12	3	16	w.	Arcadia College
Birch Tree... ½ mile E	Shannon	1,000	52	39.6§	+ 3.2	68	30	12	16	53	1.79	−0.96	0.71	14-15	3.0	6	16[a]	11[a]	3[a]	se.	Mrs. Mildred E. Catlett
Black.......9 miles NW	Iron	1,000	54	36.5[f]	+ 1.7	66[f]	29	7[f]	16	54	0.83	−1.62	....	..	1.0	5	19[d]	2[d]	6[d]	w.	J. Cornell Shy
Campbell	Dunklin	314	21	41.0	+ 2.6	67	30	20	14	21	4.04	+0.09	1.70	6-7	1.0	6	13	10	8	s.	Mrs. Ruth Christian
Cape Girardeau	Cape Girardeau	347	2	39.9	......	65	30	16	16	47	4.00	+0.33	1.50	15	6.0	6	13	10	8	sw.	State Teachers College
Caruthersville	Pemiscot	265	51	44.0	+ 3.1	68	3†	21	25	55	3.10	−1.44	1.98	6-7	T.	6	15	6	10	s.	Victor T. Malloure
Clearwater Dam	Wayne	648	1	40.2	......	70	30	15	1†	1	1.93	......	0.78	15	*1.5*	7	14	7	10	s.	U. S. Engineer Office
Crystal City	Jefferson	420	13	40.1	+ 5.7	67	29	15	25	13	2.20	−0.34	0.49	15-16	1.0	7	12[a]	2[a]	16[a]	nw.	Richard K. Ragland
Doniphan	Ripley	344	43	40.1	+ 2.3	71	27	13	16†	43	2.89	−0.83	1.43	31	*1.7*	5	17	6	8	nw.	Boyce Lackey
Farmington	St. Francois	896	36	39.0	+ 2.3	65	30	13	16	50	0.94	−1.86	0.66	15	2.5	5	16	4	11	s.	F. M. Karsch
Greenville ...1 mile SW	Wayne	415	38	39.6	+ 3.4	69	30	13	16	40	2.40	−0.96	1.29	15	*1.5*	7	12	12	7	s.	Beuford Shoemake
Jackson	Cape Girardeau	428	56	38.9	+ 2.3	65	30	9	16	57	4.17	+0.74	1.64	31	3.6	5	15	6	10	s.	Danny Siebert
Koshkonong	Oregon	958	46	42.2	+ 3.8	69	30	16	16	47	2.71	−0.77	1.13	15	*4.0*	8	17	3	11	s.	Mrs. Genevieve T. Smith

Continued on next page

Climatological Data for December 1947—Continued from preceding page

Stations	Counties	Elevation, feet	Temperature, in degrees, Fahr.							Precipitation, in inches						Number of days				Prevailing direction of wind	Observers
			Length of record, years	Mean	Departure from the normal	Highest	Date	Lowest	Date	Length of record, years	Total	Departure from the normal	Greatest in 24 hours [4]	Date	Total snowfall, unmelted	With precip., .01 inch or more	Clear	Partly cloudy	Cloudy		
Southeastern Division—	*Concluded*																				
Licking...... 4 miles N	Texas	1,170	10	39.7	+ 3.3	68	4	13	16	10	0.39	−1.99	0.19	15	*2.0*	4	11^{c}	4^{c}	13^{c}	s.	Fern E. Austin
Marble Hill	Bollinger........	532	52	37.4	+ 0.7	62	30†	12	16	54	2.31	−1.36	1.05	31	2.0	5	15	11	5	sw.	R. A. DeWitt
Poplar Bluff...........	Butler	339	42	41.0	+ 3.2	69	27†	16	1	43	2.46	−1.53	1.02	15	2 0	8	13	7	11	s.	Osmon M. Richardson
Rolla	Phelps...........	1,202	47	37.9	+ 3.3	66	29	14	16	63	0.55	−1.63	0.50	4	T.	2	10	20	1	se.	Rolla School of Mines
St. Louis:																					
City Office	....	465	110	38.8	+ 3.9	64	30	20	16	110	2.34	+0.13	2.05	31-1	0.7	6	12	3	16	s.	**Section Center**
St. Louis Airport	St. Louis	556	10	38.0	+ 4.6	65	7	18	16	16	2.44	+0.71	1.91	31-1	1.0	5	9	6	16	s.	U. S. Weather Bureau
St. Louis University.	St. Louis City...	578	35	39.0	+ 3.9	64	2†	19	16	35	2.30	−0.14	1.79	31	0.7	6	13	5	13	s.	St. Louis University
Salem	Dent.............	1,206	43	39.8	+ 4.4	67	4	15	16	46	2.76	+0.22	2.10	31	T.	5	12	10	9	s.	E. E. Martin
Sikeston...............	Scott	318	40	39.1	+ 1.4	66	29†	19	16	50	2.51	−1.43	1.29	15	2.0	7	13	11	7	s.	Mrs. Lucy W. Humphreys
Union ....1½ mi. SE	Franklin	520	9	39.0	+ 3.5	67	4	16	16†	30	0.48	−1.73	0.25	3-4	*0.6*	3	15	4	12	w.	Cornelius Sieges
Vichy ....2 mi. NW	Maries...........	1,125	11	37.8	......	66	4†	14	16	12	2.02	......	1.44	31	T.	5	8	9	14	sw.	Civil Aeronautics Adm.
Wappapello Dam......	Butler...........	475	8	38.9	......	66	30	19	16	8	2.64	−0.20	1.39	15	1.8	8	12	7	12	ne.	U. S. Engineer Office
Webster Groves	St. Louis	507	1	38.4	......	66	30	17	16	2	1.35	......	0.73	31	0.5	6	11	8	12	nw.	R. W. Lawrie
Weingarten	St. Genevieve ...	833	6	38.6§	......	68	4	15	16	7	2.81	......	1.75	31	*2.0*	4	10	13	8	n.	William J. Miller
West Plains	Howell	1,005	10	38.2	+ 1.7	68	4†	14	16†	10	5.92	+2.70	3.87	31-1	2.0	7	11	10	10	s.	U. S. Weather Bureau
Willow Springs 500 ft E	Howell	1,238	6	40.1	......	69	30	16	16†	40	1.25	−1.55	0.52	15	T.	6	17	4	10	n.	Allen Frazee
Cairo, Ill.	Alexander, Ill...	314	75	40.6	+ 2.8	65	30	23	16	76	4.15	+0.75	2.49	31-1	0.8	5	10	9	12	ne.	U. S. Weather Bureau
Division means	**and extremes**	.....	..	**39.3**	**+ 3.0**	**72**	**27**	**7**	**16**	..	**2.12**	**−0.76**	**3.87**	**31-1**	**1.5**	**6**	**13**	**8**	**10**	**s.**	
State means	**and extremes**	.....	..	**37.7**	**+ 3.5**	**73**	**8†**	**7**	**16**	..	**1.84**	**−0.33**	**3.87**	**31-1**	**1.1**	**5**	**13**	**8**	**10**	**sw.**	

The departures from normal temperature are computed from the averages of the entire period for stations having 10 or more years of record. Departures of precipitation for stations with 15 years or more of record are computed from a normal or "standard mean", adjusted to a uniform 35-year period: for stations of 10 to 14 years the means for the period of record are used. The normal may be found by adding the departures when minus (−) or subtracting when plus (+). Figures and letters following stations indicate distance in miles and direction of station from the city Post Office, unless otherwise indicated. T. Trace or 0.005 inch or less. ^{a}, ^{b}, ^{c}, etc., number of days missing; for example, ^{b}, indicates two days missing. Italics data interpolated. § Partly interpolated. † And other dates. ‡ Received too late to be included in means and summaries. [4] Best available used for stations not equipped with recorders. Post office address of: Altona is Adrian; Clearwater Dam is Piedmont; Crane Mountain is Arcadia; East End is Goodland; Hailey is Cassville; High Lookout is Birch Tree; Macedonia Lookout is Doniphan; Oates Tower is Centerville; Perry is Center; Pineview Lookout is Cape Fair; Sugar Camp Lookout is Seligman; Topaz is Cabool; Wilderness Lookout is Lampe. (C) Airport. ¶ Indicates plus.

(Continued from page 89)

Except for the sleet and glaze storm mentioned above, there were no damaging storms reported during the month. However, high winds occurred on several days, but without doing any damage.

There were no floods, or high water, in any of the major streams of the State, except in the Grand River, at Chillicothe, where a strong rise occurred on the 4-5th, but bankfull stages were not reached.

Sunshine during December averaged only slightly more than normal. The average number of clear days, for the State as a whole, was 13.

The mild, open weather was very favorable for the winter wheat crop, which continued in very good condition and provided much grazing for livestock during most of the month. Permanent pastures also were in good condition throughout most of the month and lack of snow cover permitted livestock to forage these pastures and stalk fields, resulting in a considerable saving of dry feed and labor. Considerable plowing was accomplished during December, especially in the southern half of the State. Gathering of corn and cotton progressed throughout much of the month and most of the latter crop was out of the fields by the close. Some of the drier areas in the Southwestern Division reported a shortage of water during the month, but this condition was relieved, for the most part, by the generally heavy precipitation on December 31st-January 1st.—M. R. W.

TEMPERATURE

The monthly mean for the State, 107 stations reporting, was 37.7°, or 3.5° warmer the 60-year December average. The highest monthly mean was 44.0° at Caruthersville, and the lowest was 30.6° at Unionville. The highest reported was 73° at Ozark Beach on the 8th and at Nevada on the 29th, and the lowest was 7° near Black on the 16th.

PRECIPITATION

The average for the State, 215 stations reporting, was 1.84 inches, or 0.33 inch less than the 60-year December average. The greatest monthly amount was 6.12 inches near Alton, and the least was 0.18 inch at Waynesville. The greatest amount reported in 24 hours was 3.87 inches at West Plains on December 31st-January 1st. The average number of days with 0.01 inch, or more, was 5.

Snowfall averaged 1.1 inches, or 2.4 inches less than the 58-year December average. The greatest monthly snowfall reported was 6.0 inches at Cape Girardeau.

MISCELLANEOUS PHENOMENA

Earthquake.—Light, on 1st; felt in the Poplar Bluff area; no damage.

Fogs.—Heavy, 3d, 4th, 9th, 11th, 12th, 13th, 14th, 17th, 19th, 20th, 21st, 22d, 23d, 24th, 25th.

Glaze.—3d, 4th, 9th, 10th, 23d, 31st.

Hail.—Light, on 4th at Kirksville and on 31st at Greenville.

Sleet.—3d, 4th, 6th, 7th, 9th, 10th, 15th, 22d, 24th, 31st.

Windstorms.—High winds reported on several days but no damaging windstorms were reported.

ERRATA

November 1947, page 81: Degree days at Springfield should be 700. Page 82: Mean temperature and departure at Springfield should be 41.8 and −3.2, respectively. Page 87: Minimum temperature on 29th at Springfield should be 23 and mean minimum should be 34.0.

Daily Precipitation for December 1947

Stations	Drainage-basins	Day of month																															Total
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Northern Division																																	
Albany	Grand	....	....	.40	1.39	T.	....	.02	....	T.	T.	....	....	....	....	....	....	T.	....	....	....	....	....	....	....	....	....	....	....	....	....	.02	1.83
Amity	do	T.	....	.68	1.66	....	....	T.	....	T.	T.	....	....	....	....	....	....	.06	....	....	....	....	T.	T.	....	....	....	....	....	....	....	.04	2.44
Auxvasse	Missouri	....	....	.53	1.03	....	....	.17	....	....	.05	....	....	....	....	....	....	T.	....	....	....	....	....	....	....	....	....	....	....	....	....	.30	2.08
Bethany	Grand	....	....	.20	.28	....	....	T.	....	....	T.	....	....	....	....	....	....	....	T.	....	....	....	....	....	....	....	....	....	....	....	....	T.	0.48
Bowling Green[2]	Mississippi	....	....	....	1.57	....	....	.10	....	....	.25	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1.92
Brookfield[2]	Grand	....	....	.16	1.54	....	....	.28	....	....	.15	....	....	....	....	....	....	T.	....	....	....	....	....	....	....	....	....	....	....	....	....	....	2.13
Browning 3 mi. NE	do	T.	....	.58	1.06	T.	T.	.04	....	....	.16	T.	....	....	....	....	....	.08	....	....	....	....	....	....	....	T.	....	....	....	....	....	.10	2.02
Brunswick[2]	do	....	....	.32	1.67	....	....	.22	....	....	.05	....	....	....	....	....	....	.01	....	....	....	....	....	....	....	....	....	....	....	....	....	....	2.27
Canton, Lock No. 20[2]	Mississippi	....	T.	....	1.20	.04	....	.56	T.	....	.14	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1.94
Carrollton	Missouri	T.	....	.80	1.03	....	....	.25	....	....	.07	....	....	....	....	....	....	.01	....	....	....	....	....	....	....	....	....	....	....	....	....	.27	2.43
Centralia[2]	Mississippi	....	....	....	1.75	....	....	....	....	....	.06	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1.81
Chillicothe[2] (B)	Grand	....	....	.15	1.90	....	....	.02	....	....	.07	....	....	....	....	....	....	.01	....	....	....	....	....	....	....	....	....	....	....	....	....	....	2.15
Chillicothe[3] 2 mi ESE (C)	do	T.	....	1.17	.88	....	T.	.03	....	.13	.02	....	....	....	....	....	T.	.05	....	....	....	....	T.	T.	....	....	....	....	....	....	....	.36	2.64
Columbia[1, 5]	Missouri	....	....	.85	.44	....	T.	.08	....	T.	.02	....	....	....	....	....	T.	T.	....	....	....	....	....	....	....	....	....	....	....	....	....	.60	1.99
Columbia[5] 9 mi. WNW	do	....	....	.33	1.01	....	....	.02	....	....	.04	....	T.	....	....	....	....	T.	....	....	....	....	....	....	....	....	....	....	....	....	....	.38	1.78
Conception	do	....	....	.17	1.65	....	....	T.	....	.03	T.	....	....	....	....	....	....	T.	....	....	....	....	....	....	....	....	....	....	....	....	....	T.	1.85
Edgerton[2]	do	....	....	.09	2.20	.09	....	T.	....	....	....	*T.*	....	....	....	....	....	T.	....	....	....	....	....	....	....	*T.*	....	....	....	....	....	....	2.38
Edina[2]	Mississippi	....	....	T.	1.40	.06	....	.28	....	....	.15	....	....	....	....	....	....	T.	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1.89
Elsberry S. C. S.[2]	do	....	....	T.	1.30	.07	....	.27	....	....	.11	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1.75
Fayette	Missouri	....	....	.90	.93	....	....	.04	....	....	.08	....	....	....	....	....	....	T.	....	....	....	....	....	....	....	....	....	....	....	....	....	.50	2.45
Fulton[2]	do	....	....	.04	1.08	....	....	.13	....	....	.02	....	....	....	....	....	....	T.	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1.27
Gallatin[2]	Grand	....	....	....	2.06	....	....	.07	....	....	*.04*	....	....	....	....	....	....	*.02*	....	....	....	....	....	....	....	....	....	....	....	....	....	....	§2.19
Grant City	do	....	....	.42	.99	....	....	.27	....	.07	.05	....	....	....	....	....	....	T.	....	....	....	....	....	....	....	....	....	....	....	....	....	T.	1.80
Hannibal[1] (A)	Mississippi	....	....	.75	.58	....	....	.87	....	*T.*	.13	....	....	....	....	....	....	T.	....	....	....	....	....	....	....	....	....	....	....	....	T.	.16	2.49
Hannibal[2] (B)	do	....	....	T.	1.75	.17	....	.64	T.	....	.03	T.	....	....	....	....	....	T.	....	....	....	....	....	....	....	T.	....	....	....	....	....	....	2.59
Hermann[2]	Missouri	....	....	....	.80	....	....	.05	....	....	.03	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	0.88
Kahoka[2]	Mississippi	....	....	T.	1.17	.08	....	.40	.05	....	*.25*	....	....	....	....	....	....	T.	....	....	....	....	....	....	....	....	....	....	....	....	....	....	§1.95
Kansas City Airport[1, 5]	Missouri	.01	....	2.01	.77	....	T.	T.	....	.01	T.	T.	....	....	....	....	.01	....	....	....	....	....	T.	T.	T.	....	....	....	....	....	T.	.80	3.61
Kansas City University	do	.07	....	*	2.60	....	T.	.04	....	....	T.	....	....	....	....	....	....	T.	....	....	....	....	....	....	....	*T.*	....	....	....	....	....	.51	3.22
Kidder[2]	Grand	....	....	.17	1.84	....	....	.02	....	....	.01	....	....	....	....	....	....	.01	....	....	....	....	....	....	....	....	....	....	....	....	....	....	2.05
King City	Missouri	....	....	*.52*	*1.47*	....	....	T.	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.08	§2.07
Kirksville	Mississippi	....	....	.65	1.20	....	....	.06	....	....	.16	....	....	....	....	....	....	.03	....	....	....	....	....	....	....	....	....	....	....	....	....	T	2.10
Kirksville Airport[3, 5]	do	T.	....	.78	1.11	T.	.06	.27	....	.02	.07	....	....	....	....	....	T.	.02	....	....	....	....	....	....	....	....	....	....	....	....	....	.25	2.58
LaBelle[2]	do	....	....	T.	1.08	....	....	....	.60	....	.30	....	....	....	....	....	....	T.	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1.98
Lathrop	Grand	....	....	1.26	1.21	....	....	.02	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	*	2.49
Linneus	do	....	....	.83	.98	....	T.	.05	....	....	*.16*	.01	....	....	....	....	....	T.	....	....	....	....	....	....	....	T.	....	....	....	....	....	*.08*	§2.11
Louisiana (A)	Mississippi	....	....	.70	.97	....	....	.32	....	....	.16	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.38	2.53
Louisiana[2] (B)	do	....	....	.01	1.13	.21	....	.31	....	....	.04	T.	....	....	....	....	....	T.	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1.70
Lucerne[2]	Grand	....	....	.29	1.38	.13	....	.06	....	....	.05	....	....	....	....	....	....	T.	....	....	....	....	....	....	....	....	....	....	....	....	....	T.	1.91
Macon[2]	Chariton	....	....	....	1.68	....	....	.43	....	....	.14	....	....	....	....	....	....	.01	....	....	....	....	....	....	....	....	....	....	....	....	....	....	2.26
Madison[2]	Mississippi	....	....	....	1.05	....	....	.45	....	....	.13	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1.63
Martinsburg[2]	Missouri	....	....	.02	1.45	.01	....	.27	....	....	.09	....	....	....	....	....	....	....	....	....	....	....	....	T.	....	....	....	....	....	....	....	....	1.84
Maryville	do	....	....	.46	1.36	....	....	.14	....	.08	....	....	....	....	....	....	....	.04	....	....	....	....	....	....	....	....	....	....	....	....	....	T.	2.08
Memphis[2]	Mississippi	....	....	T.	1.35	.14	....	.09	....	....	.09	....	....	....	....	....	....	T.	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1.67
Mexico[2]	do	....	....	T.	1.55	....	....	.17	....	....	.04	....	....	....	....	....	....	T.	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1.76
Milan[2]	Grand	....	....	....	1.73	.03	....	.13	....	....	.25	....	....	....	....	....	....	T.	....	....	....	....	....	....	....	....	....	....	....	....	....	....	2.14
Moberly[2] 3½ mi. NE	Mississippi	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Monroe City	do	....	....	.73	.86	....	....	1.30	....	....	.12	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.28	3.29
New Florence[3, 5] 1 mi SE	Missouri	....	....	.54	.45	....	.01	.18	....	.03	T.	T.	....	....	....	....	....	T.	....	....	....	....	....	....	....	....	....	....	....	....	....	1.08	2.29
Oregon[1]	do	....	.06	.62	1.17	....	....	T	....	.11	....	....	....	....	....	....	*.10*	....	....	....	....	....	T.	*T.*	....	....	....	....	....	....	....	*.35*	§2.41
Palmyra[2]	Mississippi	....	....	....	1.24	....	....	.25	....	....	.10	....	....	....	....	....	....	T.	....	....	....	....	....	....	....	....	....	....	....	T.	....	....	1.59
Paris[2]	do	....	....	T.	1.61	....	....	.22	....	....	.07	....	....	....	....	....	....	T.	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1.90
Perry 1 mile E	do	....	....	.60	.90	....	....	.15	....	....	.08	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.03	1.76
Philadelphia	do	....	....	.79	.80	....	T.	.79	....	....	*.15*	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.60	§3.13
Polo[2]	Missouri	....	....	.36	2.08	T.	....	.02	....	....	.03	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	2.49
St. Charles[2]	do	....	....	....	.59	.15	....	.12	T.	....	.14	....	T.	....	....	....	T.	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1.00
St. Joseph Airport[1, 5]	do	T.	T.	1.04	1.34	T.	....	T.	....	.03	T.	T.	....	....	....	....	.03	T.	....	....	....	....	....	T.	T.	....	....	....	....	....	....	.45	2.89
Salisbury	Chariton	....	....	.93	1.01	....	....	.12	....	....	T.	....	....	....	....	....	....	T.	....	....	....	....	....	....	....	*T.*	....	....	....	....	....	.35	2.41
Saverton, Lock No. 22[2]	Mississippi	....	....	T.	1.32	.01	....	.27	....	....	.27	T.	....	....	....	....	....	.01	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1.88
Shelbina	do	....	....	.69	1.04	....	....	.81	....	....	.30	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	*	2.84
Shelbyville	do	....	....	.63	.93	....	....	.54	....	....	.14	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.18	2.42
Steffenville	do	....	....	.77	1.00	....	....	.59	....	....	.17	....	....	....	....	....	....	T.	....	....	....	....	....	....	....	....	....	....	....	....	....	.23	2.76
Tarkio[3]	Missouri	....	.03	.71	.87	T.	T.	T.	....	.11	T.	....	....	....	....	....	T.	....	....	....	....	....	....	T.	....	....	....	....	....	....	....	.11	1.83
Trenton[2]	Grand	T.	T.	.21	1.46	T.	T.	.16	....	....	.03	....	....	....	....	....	....	.04	....	....	....	....	....	....	....	....	....	....	....	....	....	T	1.90
Troy[2]	Mississippi	....	....	T.	1.05	.15	....	.10	....	....	.11	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1.41
Unionville[2]	Chariton	....	....	....	1.72	.09	....	.20	....	....	.13	....	....	....	....	....	....	T.	....	....	....	....	....	....	....	....	....	....	....	....	....	T.	2.14
Vandalia	Mississippi	....	....	*	*1.56*	....	....	*.14*	....	....	.10	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.12	§1.92
Warrenton	do	....	....	.45	.64	....	....	.17	....	....	.06	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.68	2.00
Keokuk, Iowa[1]	do	T.	....	.47	.55	.01	T.	.48	....	T.	.16	....	....	....	....	....	....	.02	....	....	....	....	....	....	....	....	....	....	....	....	....	.10	1.79
Southwestern Division																																	
Altona[2]	Osage	....	....	.15	1.20	....	....	T.	....	....	*.10*	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	§1.45
Anderson[2] 1½ mi. SW	Neosho	....	....	....	.14	....	....	T.	....	....	.12	....	....	....	....	.03	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.20	0.49
Appleton City 2 mi. W	Osage	....	....	.33	1.08	....	....	.05	....	....	.03	....	....	....	....	....	....	T.	....	....	....	....	T.	T.	....	....	....	....	....	....	....	.60	2.09
Ava Ranger Station[2]	White	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Bolivar	Osage	....	....	.01	.04	....	....	.04	....	T.	.09	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1.15	1.33
Boonville[2] (A)	Missouri	....	....	.05	1.10	....	....	.09	....	....	.02	....	....	....	....	....	....	.01	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1.27
Boonville[2] (B)	do	....	....	.03	1.30	....	....	.07	....	....	.03	....	....	....	....	....	....	.02	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1.45
Bradleyville[2]	White	....	....	....	.21	....	....	.40	....	....	....	....	....	....	....	....	.19	.20	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1.00
Buffalo[2]	Osage	....	....	.06	.12	....	....	....	....	....	.11	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.02	0.31
Butler	do	....	....	.32	.72	....	....	.12	....	....	.11	....	....	....	....	....	....	....	....	....	....	....	T.	....	....	....	....	....	....	....	....	.92	2.19
Camdenton	do	....	....	.31	....	....	....	.70	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.95	1.96
Caplinger Mills[2]	do	....	....	....	.23	....	....	....	....	....	.12	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.06	0.41
Carthage	Neosho	....	....	....	.10	....	....	....	....	.08	.07	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1.35	1.60
Cassville[2]	White	....	....	.02	.13	....	....	.06	....	....	.09	....	....	....	....	....	.19	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.17	0.66
Chadwick[2]	do	....	....	....	.23	....	....	.14	....	....	.15	....	....	....	....	....	....	.02	....	....	....	....	....	....	....	....	....	....	....	....	....	T.	0.54
Clinton[3]	Osage	....	....	.79	.36	....	T.	.03	....	T.	T.	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1.21	2.39
Concordia	Missouri	....	....	.91	.87	....	....	.12	....	....	T.	....	....	....	....	....	....	T.	....	....	....	....	....	....	....	....	....	....	....	....	....	.05	1.95
Crocker	Osage	....	....	.10	.12	....	....	....	....	....	.05	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1.22	1.49
Eldon	Missouri	....	....	.11	.37	....	....	.03	....	....	.09	....	....	....	....	....	....	....	....	....	....	....	T.	....	....	....	....	....	....	....	....	1.20	1.80
Eldorado Springs	Osage	....	....	.11	.12	....	T.	.09	....	T.	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.88	1.20
Elijah[2]	White	....	....	....	....	T.	....	*	1.00	....	....	....	....	....	....	....	.40	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1.40
Forsyth[2]	do	....	....	.02	.13	....	....	.40	....	....	.10	....	....	....	....	....	.15	.25	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1.05
Galena[2]	do	....	....	....	.16	....	....	.04	....	....	.07	....	....	....	....	....	.23	T.	....	....	....	....	....	....	....	....	....	....	....	....	....	....	0.50
Granby[2]	do	....	....	.03	.08	....	....	.14	....	....	.10	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	0.35
Hailey	do	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.04	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1.82	1.86
Harrisonville[2]	Osage	....	....	.74	2.80	....	....	.08	....	....	.04	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.03	3.69
Jefferson City[2] (A)	Missouri	....	....	T.	.17	....	....	.20	....	....	.03	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	0.40
Jefferson City[2] (B)	do	....	....	....	.67	T.	....	.27	....	....	.06	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1.00

Continued on next page

Daily Precipitation for December 1947—Continued from preceding page

Stations	Drainage basins	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Total
Southwestern Division—	*Concluded*																																
Joplin Airport[3]	Neosho			.04	.07		T.	.04		.05	T.													T.	T.							1.13	1.33
Lakeside[2, 5]	Osage			T.	.44			.07			.05				T.																		0.56
Lamar[2]	Neosho				.12			T.			.18																					*	0.30
Lebanon	Osage				.24			.07			.08					T.																1.04	1.43
Lexington[2]	Missouri		T.	.22	1.66		T.	.16			.03							.01						T.		T.						.02	2.10
Lockwood	Osage			T.	.03					T.																						1.51	1.54
Mansfield[2]	White			T.	.28			.13			.25					*	.16																0.82
Marshall	Missouri			1.18	1.03		T.	.04		T.	T.								T.													.53	2.78
Marshfield	White			T.	T.	T.		.08		T.	.14					T.								T.								1.04	1.26
Monett[2]	Neosho			.04	.06			.03			.09					T.																.19	0.41
Mountain Grove[2]	Gasconade				.20			.13			.10					.16	.14																0.73
Mount Vernon[2]	Neosho		T.	T.				.27			.07	T.	T.													T.							0.34
Neosho	do			.03	.09			.10		.02	.08													T.	T.							1.86	2.18
Nevada	Osage			.45	.23		T.	.05		T.	T.																					1.32	2.05
Osceola[2]	do			.08	.29			.02			.03																					.05	0.47
Ozark[2]	White			T.	T.			.07			.06					.13	T.																0.26
Ozark Beach[2]	do			.13	.10			.38			.12					.23																*	0.96
Pierce City[2]	Neosho			T.	T.						.30																					1.50	1.80
Pineview Lookout[2]	White																																....
Pleasant Hill[2]	Osage			.17	2.10		*	.06			.03							.01														T.	2.37
Roby	Gasconade			.08	.10			.11			.19					.30																1.75	2.53
St. Thomas[2]. 2¼ mi sw	Osage				.76			T.			.06																						0.82
Sedalia	Missouri			.25	1.18			.10			.03																					.66	2.22
Seligman[2]	Neosho							.30								.37																	0.67
Seymour[2] ..... 4 mi. E	White							.11			.07					T.	.21					T.	T.	T.									0.39
Shell Knob[2]...3 mi. SE	do			T.	.02			.19			.07					.38																.10	0.76
Siloam Sprgs Lookout[2]	do				.26			.60	.12							.66																	1.64
Springfield[1, 6]. 4 mi. NW	Osage			.03	.03		T.	.22		.11	.01		T.			.01															T.	1.26	1.67
Stover[2]	Missouri			.12	.62			.05			03																						0.82
Sugar Camp Lookout[2]	White																																....
Sweet Springs	Missouri			.96	.78			.06			T.							T.								T.						.74	2.54
Tecumseh[2]. ..¼ mi. w	White			.18				.93	.12		.11					.28	.40																2.02
Topaz[2]	do				.30			.32			.13					.23	.33																1.31
Vanzant[2]....3¾ mi. SE	do										.16					.17	.18															*	0.51
Waco[2]	Spring				.02		T.	.03			.20																					.05	0.30
Warrensburg	Missouri			.59	.82		T.				T.							T.														.58	1.99
Warsaw ....(A)	Osage			.20	.44			T.			.02							T.														.66	1.32
Warsaw[2]..........(B)	do			.09	.48			T.			T.																					T.	0.57
Wasola[2]	White				.32			.42			.12					.23	.21															*	1.30
Waverly[2]	Missouri		T.	.08	2.04			.24			.04							.03								T.						.02	2.45
Waynesville...1¼ mi. E	Gasconade				.10			T.			.08																					*	0.18
Weaubleau[2]	Osage				.20			.10			.18																						0.48
Wilderness Lookout[2]	White			*	.05			.39			.09					.27	.10																0.90
Southeastern Division																																	
Advance[8].....½ mile W	St. Francis				.32			.77		T.	.04					1.23																2.62	4.98
Alton.......10 miles SE	Black				.43			1.18			.10					1.10																3.31	6.12
Annapolis[2].....7 mi. W	do				.09	.23		.21	.02		.10					.29	.79																1.73
Arcadia[2]	St. Francis					.38		.15			.05					.10	.35																1.03
Belleview[2]	Meramec				.04	.13		.07								.05	.56																0.85
Bernie[2]	St. Francis				.14	.17		1.04	.32		.15					.51	.71																3.04
Birch Tree[2] ...½ mile E	Black				.33			.42	.18		.15					.25	.46																1.79
Black...... 9 miles NW	do			*	.30			.13								.40																*	0.83
Bloomfield[2]	St. Francis				.12	.23		.63	.11		T					.41	.73																2.23
Bunker[2] ... 4 miles NW	Black			.09				.20								.20																	0.49
Campbell	St. Francis				.19			1.70			.08					1.15	.02						T.	T.								.90	4.04
Cape Girardeau....(A)	Mississippi				.36			.70			.17					1.50	.20														T.	1.07	4.00
Cape Girardcau[2]...(B)	do				.02	.26		.51	.12		.10					.52	1.15																2.68
Caruthersville[2]	do				T.	.16		1.03	.95		.13	T.				.35	.48														T.		3.10
Centerville(1)[2]	Black				.26	.05		.16			.12						.70						T.										1.29
Centerville(2)[2]	do				.10	.14		.18			.13					.11	.58																1.24
Clearwater Dam[2]	do				*	.34		.63	.08		.10					*	.78																1.93
Cook Station[2]	Meramec				.10			.10			.17						.18																0.55
Crane Mountain[2]	St. Francis				.29			.17			.05					.54	.35																1.40
Crystal City	Mississippi			.01	.22			.03			.10					.05	.44															1.35	2.20
Cuba	Meramec			T.	.13		T.	.06			.10					.07							T.									1.20	1.56
Deering[2]	St. Francis				T.	.18		1.92	.60		.12					.39	.42																3.63
De Soto	Mississippi				.16			.05			.12					.42																1.24	1.99
Dexter[2]	St. Francis				.10	.26		.66	.26		.09					.09	1.31																2.77
Doniphan(1)	Black				.21			.68			.06					.51																1.43	2.89
Doniphan(2)[2]	do				.20	.21		.93	.25		.10					.40	.77																2.86
East End[2]	Meramec				.30	.06		.12									.62							T.									1.10
Eastwood Lookout[2]	Black																																....
Ellington[2]	do				.10	.26		.29			.10					T.	.80																1.55
Ellsinore	do				.26			.80			.10					1.03							T.									1.90	4.09
Farmington[2]	St. Francis				.05	.12		T.	.05		.06		T.			T	.66														T.		0.94
Fisk[2]	do				.20	.40		.90	.10	T.	.10		T.			.52	.72															T.	2.94
Fredericktown[2]	do				.06	.12		.08			.14					.18	.84																1.42
Gerald	Meramec			.31	.33			.22																								1.21	2.07
Greenville[2] .. 1 mi. SW	St. Francis				.09	.13		.70	.09		.10					.39	.90																2.40
High Lookout	Black			T.	.35			.80		T.	.12					.69																2.00	3.96
Jackson	Mississippi				.30			.57			.11	T.				1.55	T.															1.64	4.17
Jerome[2]	Gasconade				.04			.16			.04					T.															T.		§0.24
Koshkonong[2]	Black				.47	.01		.77	.22		.09					.26	.87															.02	2.71
Leeper[2]	do				.12	.17		.69	.06		.11					.33	.10														T.	T.	1.58
Licking[2]	Gasconade							.09	.11							.07	.12																0.39
Macedonia Lookout[2]	Black				.11	.18		.73	.13			.08				.31	.89																2.43
Marble Hill	Mississippi				.65			.29			.12					.20																1.05	2.31
Morehouse	do				.25			.89			.15					1.24	T.															.91	3.44
Moselle[2]	Meramec				.23			.09			T.						T.																0.32
New Madrid[2]	Mississippi				T.	.08		1.35	.17		.06					.20	.68																2.54
Oates Tower[2]	Black				.06	.14		.13			.06					.09	.38							T.							T.		0.86
Owensville[2]	Gasconade				.65			.16			.10																						0.91
Pacific[2]	Meramec			T.	.19	T.		.14			.07					.12	.02																0.54
Parma[2]	St. Francis				.06	.07		1.36	.18		.11					.05	1.00																2.83
Perryville	Mississippi				.18			.04			.02					1.06																1.93	3.23
Poplar Bluff[2]	Black				.11	.32		.80	.10		.06	T.				.42	.60															.05	2.46
Puxico[2]	St. Francis				.10	.35		.66	.12		T.					.45	1.02																2.70
Qulin[2]	do				.20	.35		1.02	.20		.20		T.			.33	1.12							T.								T.	3.42
Reynolds[2]	Black				.15	.17		.25			.15					.15	.35																1.22
Richwoods[2]	Meramec				.20			.05			.15						.25																0.65
Rolla[2]	do				.50			T.			.05					T.																	0.55
Round Spring[2]	Black				.25			.11			.13					*	.55																1.04

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Daily Precipitation for December 1947—Continued from preceding page

Stations	Drainage-basins	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Total
Southeastern Division —	*Concluded*																																
St. Louis:																																	
City Office[1], [5]	Mississippi	....	....	.03	.28	....	T.	.06	....	T.	.20	T.	....	....	....	.06	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1.71	2.34
Airport[3], [5]	Missouri	....	....	.34	.21	....	T.	.16	....	T.	.13	T.	T.	....	....	T.	....	....	....	....	....	....	T.	....	....	....	....	....	....	....	....	1.60	2.44
St. Louis Univ.[1], [5]	Mississippi	....	....	.05	.24	....	....	.09	....	....	.07	T.	....	....	....	.06	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1.79	2.30
Washington Univ.[2]	...do	....	....	....	.23	.10	....	.09	....	....	.25	....	....	....	....	....	.03	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	0.70
Salem	Meramec	....	....	T.	.16	....	....	.08	....	....	.18	....	....	....	....	.24	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	2.10	2.76
Sikeston[2]	Mississippi	....	....	....	.10	.13	....	.65	.19	....	.15	....	....	....	....	.40	.89	....	....	....	....	....	....	....	....	....	....	....	....	....	T.	....	2.51
Steelville[2] ...2½ mi. NE	Meramec	....	....	....	T.	....	....	.10	....	....	.10	....	....	....	....	.10	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	0.30
Sullivan[2]	...do	....	....	....	.19	.01	....	.06	T.	....	.06	....	....	....	....	.07	.02	T.	....	....	....	....	....	T.	....	....	....	....	....	....	....	....	0.41
Summersville[2]	Black	....	....	....	.24	*T.*	....	.22	....	....	.25	....	....	....	....	.23	.16	..	....	....	....	....	*T.*	....	....	....	....	....	....	....	....	....	1.10
Union[2] ...1½ mi. SE	Meramec	....	....	T.	.25	....	....	.17	....	....	.06	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	0.48
Valley Park[2]	...do	....	....	T.	.14	T.	....	.20	....	....	.10	....	....	....	....	.28	T.	....	....	....	....	....	....	....	....	....	....	....	....	....	T.	....	0.72
Van Buren[2]	Black	....	....	....	....	....	.33	.49	....	....	....	....	....	....	....	.40	.45	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1.67
Vichy[2] ...2 miles NW	Meramec	....	....	.07	.22	....	....	.22	....	.07	T.	....	....	....	....	....	....	....	....	....	....	....	T.	....	....	....	....	....	....	....	....	1.44	2.02
Wappapello Dam[2]	St. Francis	....	....	....	.09	.25	....	.70	.10	....	.09	....	....	....	....	.37	1.02	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.02	2.64
Webster Groves	Mississippi	....	....	.01	.23	....	....	.08	....	....	.25	....	....	....	....	.05	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.73	1.35
Weingarten	...do	....	....	....	.31	....	....	.10	....	....	....	....	....	....	....	.65	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1.75	2.81
West Plains[3]	Black	....	....	.05	.30	....	T.	1.00	....	.06	.01	....	....	....	T.	.85	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	3.65	5.92
Williamsville[2]	...do	....	....	....	T.	.27	....	.73	.15	....	....	....	.09	....	....	.32	.90	....	....	....	....	....	....	....	....	....	....	....	....	....	....	T.	2.46
Willow Springs[2] 500 ft E	White	....	....	....	.22	.03	....	.32	....	....	.16	....	....	....	....	.28	.24	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1.25
Winona Ranger Sta.[2]	Black	....	....	....	.38	....	.32	.20	....	....	....	....	....	....	....	.48	.30	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1.68
Zalma[2]	Mississippi	....	....	....	.12	.31	....	.78	.14	....	.18	....	....	....	....	.34	.98	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	2.85
Cairo, Ill.[1], [5]	...do	....	....	....	.15	....	....	.85	....	T.	.08	T.	....	....	....	1.08	....	T.	....	....	....	T.	....	....	....	....	....	....	....	....	T.	1.99	4.15
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....

Except as otherwise indicated, amounts are for 24 hours ending late in afternoon. [1] Midnight to midnight. [2] Measured in the morning; for the preceding 24 hours. [3] Data for 24 hours ending 12:30 A. M. (C. S. T.) of following day. [5] Recording gage. T. Trace or 0.005 inch or less. * Included in next measurement. // Windshield on gage. Italics data interpolated. § Partly interpolated. (A) Record from cooperative station gage. (B) Record from river station gage. (C) Airport. ‡ Received too late to be included in means and extremes.

Daily Evaporation (inches), Mean Temperature (F°), and Wind Movement (miles) for December 1947

(See precipitation data in daily precipitation table)

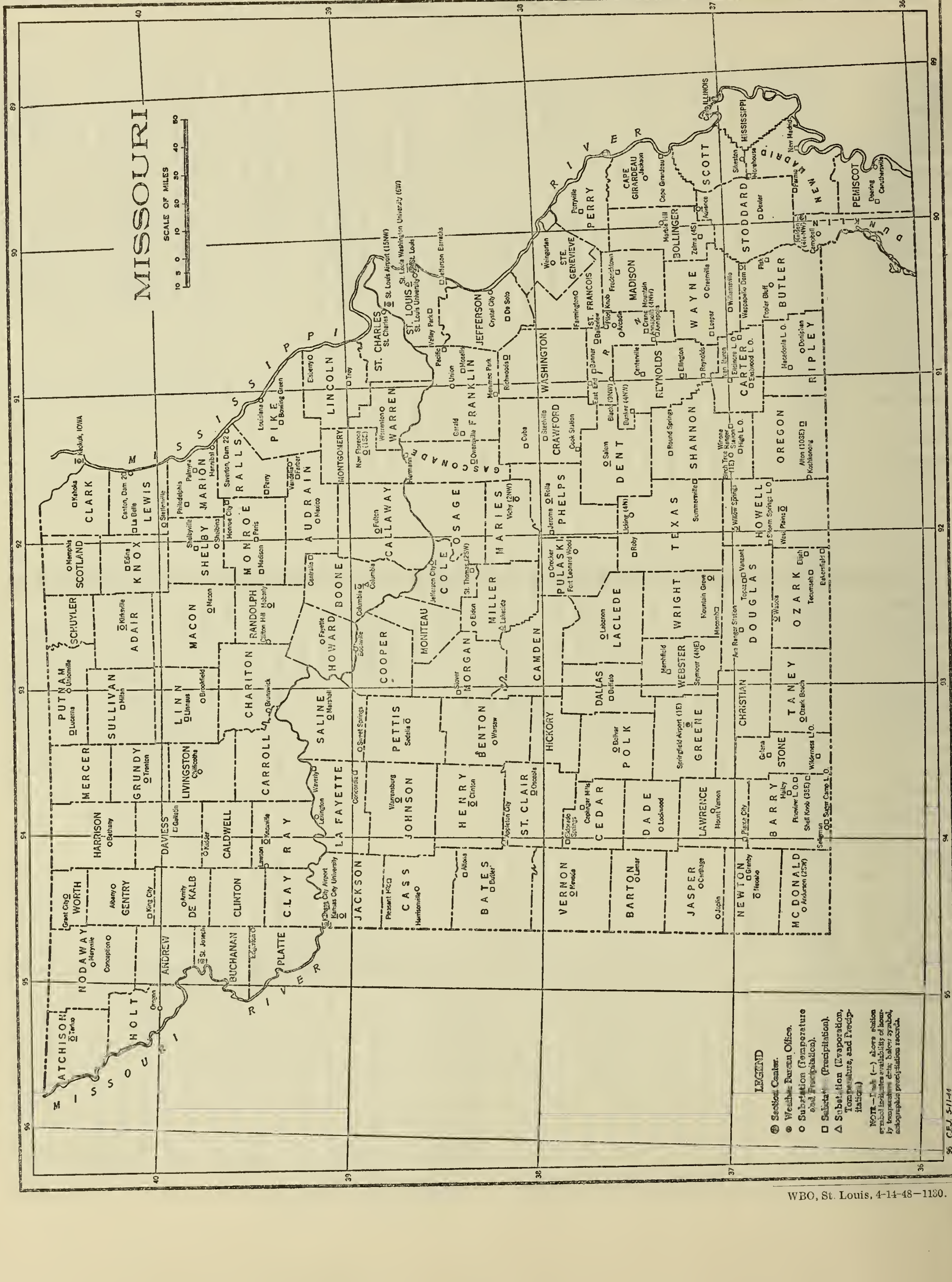
Station	Data	Day of month																															Monthly
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Columbia (Univ. of Mo. Hort. Exp. Sta. 9 mi. WNW.)	Evaporation	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
	Mean temperature	38	56	48	50	37	36	52	32	26	29	28	25	28	38	33	26	36	43	40	38	32	38	34	30	31	36	40	36	46	44	30	36.7
	Wind movement	88	152	72	164	185	53	208	101	49	48	8	30	29	125	83	66	81	93	1	13	15	43	61	32	65	63	33	20	77	65	62	2,185
Lakeside (Osage Dam)	Evaporation	.079	.046	.093	.000	.188	.039	.059	.157	*	.061	.049	*	*	*	.077	*	.027	.098	.023	.031	.033	.017	.049	.028	*	.067	.050	.038	.044	.087	.054	1.447
	Mean temperature	40	48	54	58	40	40	50	36	30	28	31	24	30	38	34	30	36	48	44	42	34	40	36	32	34	40	42	39	48	40	33	38.6
	Wind movement	10	27	46	30	186	43	61	117	23	31	31	8	11	12	43	76	19	54	23	6	13	12	40	27	45	66	26	4	14	44	56	1,204
St. Louis (Washington University)	Evaporation	*	*	*	.199	.011	.015	.014	.050	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
	Mean temperature	35	46	54	56	38	40	46	34	29	28	29	28	33	38	34	30	35	46	42	42	34	35	33	30	32	34	42	36	44	48	36	37.7
	Wind movement	30	59	64	37	60	26	59	61	66	53	45	27	24	36	56	70	38	54	20	25	57	22	46	65	54	49	37	26	31	38	58	1,393

Observations taken at 8:00 a.m. except at 5:00 p.m. at Columbia. For Lakeside and St. Louis (Washington University) descriptions see April 1932 and August 1938 reports. respectively. * Included in next measurement.

Daily Temperatures for December 1947

Stations		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Northern Division																																	
Brunswick /	Maximum	51	63	47	62	40	55	69	34	30	34	30	34	41	50	33	39	47	52	52	35	33	42	36	32	46	46	54	45	64	38	40	44.3
	Minimum	15	30	47	36	33	26	29	27	21	21	26	21	20	18	29	16	16	24	26	28	20	21	30	26	21	22	32	24	24	29	25	25.3
Chillicothe 2 mi ESE(C)	Maximum	50	63	56	56	37	52	62	33	29	34	28	36	42	49	33	39	46	53	50	37	36	44	38	29	45	47	54	43	61	44	30	43.7
	Minimum	25	46	34	32	27	25	31	21	19	18	24	22	17	30	17	13	24	30	27	26	21	27	26	22	23	26	28	23	27	26	19	25.0
Columbia	Maximum	54	64	59	66	40	51	68	39	36	33	32	30	41	51	42	40	51	57	56	51	42	49	38	33	46	47	54	48	66	56	35	47.6
	Minimum	30	51	39	35	29	29	35	26	21	29	28	22	19	32	24	16	30	36	32	29	26	33	28	22	19	31	33	28	33	35	29	29.3
Fayette	Maximum	54	65	60	63	42	50	66	36	32	34	31	34	42	50	42	40	49	56	54	47	35	45	37	36	45	49	54	47	65	56	33	46.7
	Minimum	25	47	36	36	31	19	36	24	18	27	25	21	16	27	25	12	23	34	25	26	23	30	26	25	19	29	29	24	30	32	24	26.6
Grant City	Maximum	53	59	57	46	40	54	54	34	25	27	27	30	42	38	45	38	45	50	51	48	38	46	38	32	43	45	54	43	56	38	23	42.5
	Minimum	27	42	30	28	24	25	28	16	15	12	20	16	15	27	17	10	26	32	25	20	20	26	20	16	18	22	27	21	28	23	13	22.2
Hannibal	Maximum	50	62	57	57	39	48	65	32	31	33	29	29	38	47	37	38	47	51	43	33	31	40	32	31	45	41	51	41	53	51	33	42.4
	Minimum	25	46	35	36	27	25	30	20	16	26	25	21	14	28	18	13	27	30	27	26	18	25	24	18	19	25	31	24	26	31	25	25.2
Kansas City Airport	Maximum	55	63	58	56	43	59	61	35	30	30	28	36	45	53	37	41	49	55	55	50	36	46	41	31	47	52	55	49	68	50	29	46.5
	Minimum	36	49	35	32	25	30	28	26	23	26	25	23	22	33	21	19	30	32	25	27	23	33	28	23	24	33	32	29	28	29	19	28.0
Kirksville	Maximum	48	62	59	52	40	47	62	33	26	30	28	30	39	49	43	36	45	47	45	37	42	39	33	32	44	43	53	45	57	46	30	42.6
	Minimum	27	42	32	33	29	24	32	20	15	25	22	23	12	30	20	13	26	31	25	28	21	26	21	23	21	24	29	22	26	30	18	24.8
Lathrop	Maximum	52	64	58	53	42	55	60	34	28	34	28	38	44	53	42	38	48	54	51	48	34	46	41	30	46	50	56	46	63	52	30	45.7
	Minimum	29	45	33	33	26	27	30	20	19	20	22	22	19	31	23	13	24	32	26	24	22	29	28	21	22	25	29	25	28	29	17	25.6
Louisiana	Maximum	52	65	61	61	50	50	63	54	35	33	32	31	39	50	41	39	49	55	45	37	39	43	37	33	42	43	54	46	52	53	39	45.9
	Minimum	23	46	39	39	33	23	43	26	12	28	27	25	13	29	28	15	26	31	23	27	26	27	26	18	19	29	26	21	28	38	30	27.2
Macon /	Maximum	52	62	41	62	37	55	64	36	30	35	28	31	40	50	31	38	46	51	48	35	41	40	31	35	45	46	55	43	60	42	33	43.3
	Minimum	17	30	38	33	30	22	29	22	15	16	21	21	15	16	28	12	13	26	27	26	17	21	22	21	18	25	24	21	22	26	20	22.4
Maryville	Maximum	53	60	55	44	36	52	56	33	26	28	28	29	40	45	34	37	47	50	47	46	40	42	37	29	43	45	49	40	56	44	24	41.8
	Minimum	27	40	19	19	22	21	28	15	15	14	19	14	11	25	16	10	25	25	26	23	22	26	22	17	21	22	26	23	24	24	11	21.0
Mexico /	Maximum	52	63	50	65	40	57	66	35	33	33	30	28	39	49	33	38	48	55	51	34	36	44	35	34	43	43	53	43	63	48	32	44.3
	Minimum	18	27	49	37	33	25	32	24	18	19	26	25	17	21	32	12	15	28	19	20	20	22	20	18	15	22	19	19	23	30	28	23.6
Moberly /.... 3½ mi. NE	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
Oregon	Maximum	55	63	34	45	41	55	55	30	26	28	26	33	41	47	33	40	49	51	47	42	40	44	38	27	46	47	53	44	61	33	23	41.8
	Minimum	33	33	30	30	22	26	25	19	19	18	21	17	16	29	17	13	23	28	28	24	24	29	26	19	22	27	28	25	28	22	13	23.7
St. Charles	Maximum	53	62	57	63	59	44	64	56	35	34	33	30	36	49	40	38	50	56	51	49	36	47	44	36	43	43	53	45	57	63	42	47.4
	Minimum	24	45	49	46	34	27	44	28	21	29	28	27	24	26	30	17	28	31	28	26	30	28	29	24	20	28	28	25	29	41	32	29.9
St. Joseph Airport	Maximum	54	65	39	50	41	56	58	34	29	29	28	36	44	51	34	42	49	54	52	48	38	44	41	27	46	50	55	48	65	34	24	44.0
	Minimum	32	39	32	30	25	25	26	23	21	18	23	20	20	28	18	14	27	29	27	26	21	30	22	20	23	28	27	28	28	23	15	24.9
Trenton	Maximum	51	62	55	52	41	54	62	34	34	33	30	37	46	54	48	41	48	52	50	44	42	45	40	34	46	49	56	46	69	60	35	46.8
	Minimum	25	40	33	38	28	25	32	21	18	22	25	25	18	25	22	14	25	29	27	28	19	26	25	22	27	26	31	23	28	30	18	25.6
Unionville /	Maximum	50	61	38	48	35	50	61	30	26	32	27	32	41	48	27	37	46	49	46	42	43	42	35	29	44	44	52	38	57	34	30	41.1
	Minimum	16	31	30	30	28	20	27	18	12	13	22	22	9	12	22	11	15	26	22	22	19	19	19	19	20	22	22	21	14	25	15	20.1
Warrenton	Maximum	53	65	59	67	48	45	66	61	34	32	30	30	39	50	42	39	50	58	53	54	42	48	40	38	45	44	56	47	64	58	40	48.3
	Minimum	24	45	48	42	33	23	34	25	17	27	26	24	16	27	29	14	20	34	30	21	27	28	28	17	15	29	26	25	25	40	31	27.4
Keokuk, Iowa	Maximum	52	64	60	52	41	47	64	34	31	32	30	31	40	49	36	38	46	50	37	35	39	37	30	30	47	41	52	38	53	53	33	42.6
	Minimum	31	50	36	37	32	29	34	19	17	27	27	21	14	34	19	15	33	35	28	30	23	28	24	19	23	26	33	26	28	33	25	27.6
Southwestern Division																																	
Clinton	Maximum	58	67	57	59	44	55	66	40	36	39	31	35	44	52	35	39	50	60	60	55	42	46	42	35	47	52	57	53	70	50	32	48.6
	Minimum	28	50	40	33	29	28	31	24	23	29	22	21	18	30	20	16	28	33	32	29	29	32	24	21	20	31	30	29	32	32	28	28.1
Eldon	Maximum	57	63	61	65	49	51	66	40	37	36	31	31	30	50	43	40	52	61	60	57	41	49	43	37	46	56	58	53	69	57	35	49.2
	Minimum	27	47	49	44	31	27	38	25	20	28	27	20	19	28	27	15	28	36	32	31	29	31	29	24	19	32	34	26	31	33	30	29.6
Harrisonville /	Maximum	56	64	56	56	59	57	60	35	29	29	28	39	46	51	35	40	47	56	56	52	39	44	40	32	49	52	58	49	69	35	28	46.6
	Minimum	18	32	40	33	27	26	35	21	21	22	24	24	18	18	29	14	14	25	31	33	23	28	30	21	21	28	29	28	30	30	22	25.6
Jefferson City	Maximum	54	67	60	66	47	51	69	39	35	34	32	31	35	51	42	40	51	61	56	55	41	53	42	36	46	46	56	49	67	56	34	48.5
	Minimum	23	48	44	42	32	24	38	26	22	29	28	19	17	25	27	15	24	34	25	25	29	30	29	23	18	31	28	23	28	33	30	28.0
Joplin Airport	Maximum	58	63	64	60	44	58	64	40	45	38	35	29	39	48	40	43	48	58	60	56	49	48	39	30	38	52	56	64	69	57	33	49.2
	Minimum	32	45	54	33	27	30	29	27	23	28	26	18	16	26	21	15	27	33	35	35	26	37	24	26	19	30	35	28	40	31	28	29.1
Lamar /	Maximum	61	64	64	59	52	60	67	43	45	33	33	30	43	52	40	44	52	62	64	60	43	42	43	32	51	58	63	65	72	30	43	50.6
	Minimum	16	36	49	52	25	25	42	24	24	25	24	16	13	14	26	12	13	26	30	28	25	25	30	21	15	19	26	22	26	30	28	25.4
Lebanon	Maximum	57	61	59	65	55	53	67	54	43	39	31	30	42	50	44	45	50	60	63	59	51	52	42	37	45	52	60	59	67	59	37	51.2
	Minimum	27	43	50	53	28	26	48	24	20	29	27	20	22	25	29	14	25	34	35	36	26	32	30	23	17	31	34	26	36	36	30	30.2
Lexington /	Maximum	53	63	51	52	40	58	61	35	30	35	29	35	44	50	32	40	49	53	52	47	37	44	40	33	46	48	55	46	66	34	29	44.7
	Minimum	23	36	39	35	29	29	32	24	21	22	24	25	20	20	29	16	17	29	29	27	21	27	30	25	22	30	30	26	28	31	21	26.4
Marshall	Maximum	52	64	61	61	43	56	64	45	47	35	30	35	44	53	51	40	50	55	53	48	38	47	39	32	46	47	53	68	68	62	35	49.1
	Minimum	28	46	35	35	30	28	29	24	19	24	26	23	20	33	26	15	26	33	28	29	25	30	28	25	17	20	31	25	27	32	23	27.1
Mountain Grove	Maximum	51	61	55	67	58	51	64	63	42	39	31	35	42	48	44	40	49	57	60	58	52	55	47	38	43	51	61	56	64	62	51	51.5
	Minimum	22	38	45	49	29	29	46	26	24	29	25	21	23	20	31	16	23	27	36	35	27	30	31	23	18	31	34	29	32	48	31	29.9
Neosho	Maximum	60	64	66	61	49	60	67	44	47	42	42	35	44	53	50	47	53	61	64	59	58	53	45	38	47	55	62	68	71	65	37	53.8
	Minimum	14	48	54	49	29	26	40	28	22	31	28	14	20	22	36	11	24	33	29	24	24	29	34	14	13	23	22	22	36	35	32	27.9
Nevada	Maximum	60	63	58	58	48	58	64	44	43	40	33	35	46	51	47	40	52	62	64	57	50	45	45	39	50	55	61	63	73	65	33	51.7
	Minimum	28	43	43	42	27	29	36	24	24	29	25	16	15	30	31	12	24	34	32	28	28	30	31	24	17	31	31	26	36	30	28	28.5
Sedalia	Maximum	55	64	61	62	44	54	64	38	33	35	34	35	41	50	44	36	48	58	58	54	42	50	42	37	46	47	54	53	69	63	35	48.6
	Minimum	30	49	40	38	30	29	37	25	21	28	25	20	19	30	28	15	29	35	31	30	28	34	30	24	19	29	32	30	33	33	25	29.2
Springfield....4 mi. NW	Maximum	56	62	57	62	45	52	66	40	42	34	35	27	41	50	38	43	49	59	59	57	52	53	40	36	44	51	58	58	68	51	34	49.0
	Minimum	27	42	48	36	28	29	29	26	27	29	23	20	21	22	21	14	23	27	33	33	25	34	25	20	18	31	33	30	35	31	30	28.1
Warrensburg	Maximum	56	63	61	59	44	56	64	37	35	37	33	37	43	49	45	37	48	56	56	50	42	49	43	35	46	49	55	50	68	59	34	48.3
	Minimum	31	50	38	37	30	28	35	25	22	27	25	23	20	29	29	17	29	35	32	34	25	34	30	24	21	32	32	27	32	32	23	29.3
Southeastern Division																																	
Arcadia /	Maximum	54	60	60	63	50	53	60	48	42	37	32	37	44	48	37	40	48	65	68	69	45	46	40	37	38	52	72	55	66	68	39	50.7
	Minimum	19	21	43	47	34	23	22	28	19	19	28	23	22	21	23	13	14	27	27	27	28	24	22	27	15	18	23	24	23	27	34	24.7
Birch Tree.... ½ mile E	Maximum	51	60	62	67	63	50	60	59	45	37	33	41	43	48	43	39	45	55	60	61	48	46	43	36	41	53	65	57	65	68	58	51.7
	Minimum	17	34	44	*50*	33	24	43	28	32	31	27	23	21	15	32	12	17	17	23	21	28	29	28	21	15	31	23	24	22	51	35	§27.5
Caruthersville	Maximum	55	62	68	63	63	56	67	63	46	43	41	38	35	47	45	39	48	56	60	62	56	57	52	42	45	56	65	59	68	67	66	54.5
	Minimum	24	36	44	52	43	34	47	37	29	35	33	29	28	22	35	26	24	28	30	32	32	29	33	29	21	32	28	34	35	49	49	33.5
Crystal City	Maximum	55	65	63	65	61	46	62	56	40	35	33	32	43	52	45	45	51	64	58	58	50	49	42	38	46	49	60	53	67	66	52	51.6
	Minimum	19	42	50	46	34	22	43	28	20	29	29	25	27	21	31	16	28	26	25	26	30	25	30	27	15	30	23	21	26	40	33	28.6
Doniphan	Maximum	52	63	61	64	59	54	62	61	45	42	37	39	40	48	40	41	48	60	63	65	41	52	44	42	49	57	71	60	68	70	58	53.5
	Minimum	14	27	35	51	35	24	45	31	24	34	31	27	22	14	32	13	15	19	20	22	20	29	25	26	13	28	20	22	21	49	40	26.7
Farmington	Maximum	52	60	57	61	59	45	59	60	39	37	32	34	40	47	43	39	46	60	60	60	55	43	39	34	42	46	61	58	63	65	62	50.3
	Minimum	21	35	45	48	33	22	42	26	18	27	25	22	23	21	29	13	20	26	27	27	26	24	29	27	16	33	21	26	27	47	32	27.7
Jackson	Maximum	50	57	56	60	60	47	58	60	46	39	34	37	36	45	38	38	42	51	51	61	50	38	44	39	40	49	64	53	64	65	60	49.4
	Minimum	18	36	42	50	38	25	45	32	22	32	31	27	25	22	32	9	11	21	22	25	30	24	29	25	22	26	23	27	24	47	37	28.4
Poplar Bluff	Maximum	53	63	64	63	62	53	61	58	46	42	39	37	37	48	40	39	47	56	62	62	50	50	45	43	45	55	69	58	68	69	60	53.0
	Minimum	16	28	35	50	39	26	44	32	25	33	31	27	25	19	34	19	17	22	23	25	31	29	28	26	21	29	25	28	25	49	41	29.1
Rolla /	Maximum	54	60	57	57	46	57	57	39	36	31	28	26	46	46	36	37	49	54	58	56	36	49	31	35	42	44	56	52	66	54	33	46.1
	Minimum	27	36	49	50	32	27	36	26	20	26	27	23	21	23	33	14	22	33	35	35	27	29	30	25	17	28	34	31	33	43	30	29.7
St. Louis	Maximum	52	63	60	63	45	48	61	38	37	34	31	30	38	49	40	39	51	60	54	56	37	42	36	33	44	43	55	45	57	64	37	46.5
	Minimum	27	46	50	45	35	32	35	27	23	29	28	26	26	29	24	20	30	36	34	30	29	28	29	26	22	35	33	31	30	36	33	31.1
Salem	Maximum	54	62	55	67	59	48	64	59	42	38	30	32	43	50	41	40	50	60	60	59	49	48	42	37	42	48	61	57	65	62	44	50.6
	Minimum	21	40	47	49	27	24	45	26	20	30	27	22	24	22	29	15	25	27	27	29	27	28	30	24	18	32	26	22	32	44	34	28.9
Sikeston /	Maximum	53	61	64	61	55	52	61	48	45	38	33	36	32	45	39	36	44	54	56	60	35	49	41	40	41	52	63	54	66	66	59	49.6
	Minimum	22	25	37	43	40	29	30	33	25	26	31	28	27	21	27	19	20	24	29	29	29	27	29	27	22	27	29	30	29	29	44	28.6
Union ....1½ mi. SE	Maximum	55	65	59	67	54	58	66	55	48	35	32	32	39	51	45	39	50	58	57	56	43	51	43	38	44	46	56	47	66	61	41	50.2
	Minimum	19	46	49	45	31	22	45	27	20	29	28	25	21	22	29	16	22	27	23	24	30	27	29	25	16	28	23	20	22	39	31	27.7
West Plains	Maximum	53	62	56	68	51	51	60	47	43	37	31	41	42	49	39	39	46	56	59	60	48	52	42	38	44	54	64	57	68	68	41	50.5
	Minimum	20	31	41	44	30	25	35	25	23	30	28	22	20	15	24	14	14	20	23	25	29	31	28	21	17	25	25	24	22	40	36	26.0
Cairo, Ill.	Maximum	51	60	63	62	60	52	62	50	43	38	34	36	31	44	41	32	43	51	52	55	39	48	40	38	38	48	57	50	64	65	61	48.6
	Minimum	25	39	45	51	37	34	48	33	27	34	30	28	26	24	30	23	24	29	33	32	29	27	30	27	24	30	30	34	32	51	42	32.5

/ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs. ^{a}, ^{b}, ^{c}, etc., number of days missing, for example, ^{b} indicates two days missing. Italics data interpolated. § Partly interpolated. (C) Airport.


MISSOURI
SCALE OF MILES
10 5 0 10 20 30 40 50
LEGEND
⊕ Section Center.
● Weather Bureau Office.
○ Substation (Temperature and Precipitation).
□ Substation (Precipitation).
△ Substation (Evaporation, Temperature, and Precipitation).
NOTE.—Dash (—) above station symbol indicates availability of hourly temperature data; below symbol, autographic precipitation records.
MISSISSIPPI RIVER
MISSOURI RIVER

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51 13
Nat. Hist.
SEP 23 1949

U. S. DEPARTMENT OF COMMERCE, WEATHER BUREAU

CLIMATOLOGICAL DATA

19
SEP 24 1949

MISSOURI SECTION

H. F. WAHLGREN
ST. LOUIS, MO.

VOL. LI ANNUAL SUMMARY 1947 No. 13

PRICE: 5 CENTS A COPY; 25 CENTS A YEAR

GENERAL SUMMARY

Although the annual mean temperature and the average precipitation for the State were practically normal, those figures are misleading, for it was a year of marked extremes from several weather standpoints. Beginning with January, though it was a warm and rather dry month, Tarkio and Bethany reported the lowest temperature (−28°) for the State since January 1940. February was not only the driest of record (0.26 inch), but the driest month of any name except November 1904 (0.22 inch). March was the coldest since 1915 and the snowfall average, 8.8 inches, was unusually high. April was plagued by high winds, frequent thunderstorms, tornadoes, hail and prolonged floods. It was the fourth-wettest April of record, and as a result farm work was three to four weeks behind the normal as that month closed. A tornado on April 29th passed through the town of Worth, in the extreme northwestern section of the State, killed 14 persons, injured between 40 and 50 others, some seriously, demolished the business section and destroyed or damaged practically every home, or other structure, in the town. Damage was estimated at close to three quarters of a million dollars. A smaller tornado earlier the same month caused damage to the extent of $200,000 at Eldorado Springs, Cedar County. There were no fatalities, however.

May was a favorable month for crop growth and field work and there was only one storm causing material damage. An 18-year old boy was struck and killed by lightning on the 31st, while driving a tractor on a farm near Atherton, in Jackson County. June will long be remembered for its disastrous floods, in some cases unsurpassed, and for the unprecedented rainfall that occurred over the northern half of the State. In the Mississippi River, from Keokuk, Iowa, to Dam No. 25, the highest stages of record were reached, while at St. Louis the highest stage in 103 years was recorded on the closing day and the crest, 40.26 feet, was reached on July 2d. New record-high stages were also reported in June, at some stations in the Grand watershed. Flood damage aggregated many millions of dollars, in the State of Missouri. Numerous flash floods occurred on smaller streams and creeks during June, and one on Bear Creek drove about 200 families from their homes in, or near, Hannibal. At Poplar Bluff, in the same month, an excessive downpour of rain, i.e., 2.62 inches in a period of about 45 minutes, caused the flooding of low areas in that town, as the rain ran off the hills into the lower places. Streets, basements and homes were flooded and gardens and crops in the lowlands were either seriously damaged or destroyed; the flooding also extended to County areas surrounding Poplar Bluff. Lathrop, in Clinton County, had a total of 23.60 inches of rain for June, a monthly amount previously exceeded only by the 25.54 inches total at Joplin in May 1943, while the average for the Northern Division, 12.00 inches, set a new record-high for that section of the State. A man was killed by lightning near Browning on June 17th, and two children were killed near Emerson on the 30th. July was the coolest since 1924, but August following was unusually hot, as well as dry. In fact it was the second-hottest August of record, exceeded only by that of 1936, and driest month of this name since 1936. The most

(Continued on page 104)

CONDENSED STATE SUMMARY FOR 1947

Month	Temperature				Precipitation				
	Mean	Departure from Normal	Maximum	Minimum	Mean	Departure from Normal	Greatest	Least	No. Days with .01 or more
January	34.9	+ 4.0	79	−28	1.30	−1.00	3.38	0.29	6
February	28.8	− 4.5	73	− 8	0.26	−1.83	1.12	0.00	2
March	37.4	− 6.7	77	− 7	2.80	−0.43	5.58	1.12	11
April	55.2	− 0.1	90	22	6.78	+2.70	12.28	3.22	13
May	62.3	− 2.1	92	29	4.38	−0.44	7.80	1.88	11
June	72.6	− 1.0	99	39	8.19	+3.41	23.60	1.72	13
July	75.0	− 3.0	108	39	2.17	−1.33	6.56	0.11	5
August	83.4	+ 6.8	109	56	1.81	−2.00	6.33	0.08	5
September	71.9	+ 2.6	109	31	3.83	−0.21	7.96	0.69	5
October	65.2	+ 7.3	94	29	3.83	+0.87	7.87	0.83	7
November	41.0	− 3.4	73	9	2.65	−0.06	5.92	1.26	11
December	37.7	+ 3.5	73	7	1.84	−0.33	6.12	0.18	5
Year	55.4	+ 0.2	109	−28	39.84	−0.65	23.60	0.00	94

Italics data interpolated. § Partly interpolated.

COMPARATIVE ANNUAL DATA FOR MISSOURI

Year	Temperature			Precipitation					Number of days			
	Average for State	Highest	Lowest	Average for State	Average Northern Division	Average Southwestern Division	Average Southeastern Division	Snowfall, Average for State	Precip. .01 in. or more	Clear	Partly cloudy	Cloudy
1888	52.9	111	−32	40.40	39.67	41.36	40.17	....	81	....	....	....
1889	54.3	107	− 9	38.19	36.97	40.35	37.26	....	85	....	....	....
1890	54.7	110	−19	39.51	31.07	42.08	45.39	....	82	....	....	....
1891	53.9	104	−13	37.18	37.28	37.71	36.54	....	93	....	....	....
1892	52.8	102	−31	44.77	41.62	47.88	44.80	....	92	141	95	130
1893	52.7	107	−20	39.17	35.42	38.99	43.10	....	77	155	117	93
1894	55.1	111	−35	34.61	26.97	38.27	38.58	15.4	73	170	120	75
1895	52.9	106	−26	40.03	36.74	43.42	39.92	23.7	85	161	108	96
1896	55.5	108	−10	40.37	39.65	39.79	41.68	12.6	86	154	111	101
1897	55.0	108	−16	40.56	35.18	37.46	49.03	19.5	86	167	104	94
1898	54.4	104	−20	54.26	51.87	54.12	56.80	18.6	102	162	102	101
1899	54.0	108	−32	37.93	36.34	36.81	40.64	28.8	82	166	110	89
1900	55.6	105	−16	39.00	35.73	39.57	41.70	18.5	90	171	106	88
1901	55.5	116	−29	25.86	23.36	26.56	27.66	19.2	72	190	98	77
1902	54.1	103	−17	45.01	42.71	48.98	43.33	16.7	103	159	103	103
1903	53.6	102	−25	40.63	38.78	42.79	40.31	16.5	96	170	96	99
1904	53.2	100	−23	42.06	41.59	42.43	42.16	18.8	89	180	99	87
1905	53.6	103	−40	47.00	39.82	51.84	49.35	22.3	97	174	91	100
1906	55.0	101	−13	39.43	30.26	38.78	49.25	28.2	98	165	89	111
1907	55.4	109	−15	40.91	37.01	41.92	43.81	12.8	95	173	82	110
1908	56.8	102	−10	43.81	37.66	47.24	46.54	9.7	91	184	92	90
1909	55.8	110	−20	45.27	44.94	42.95	47.92	18.3	92	173	90	102
1910	54.6	109	−24	37.81	31.96	37.99	43.48	17.2	82	183	81	101
1911	56.7	113	−19	37.43	38.04	37.92	36.33	15.2	88	166	86	113
1912	53.5	105	−36	38.99	32.53	38.82	45.62	39.6	81	192	80	94
1913	56.5	110	−12	38.20	33.14	35.96	45.50	26.0	87	174	80	111
1914	56.1	109	−18	34.68	32.21	36.43	35.41	26.4	81	171	86	108
1915	55.0	102	−24	49.84	48.57	51.74	49.22	25.3	98	160	86	119
1916	55.3	109	−29	40.62	38.58	41.08	42.19	18.2	87	191	77	98
1917	52.6	107	−23	32.21	28.70	31.92	36.01	13.9	80	186	83	96
1918	55.4	111	−25	37.69	32.60	37.19	43.29	27.2	84	185	80	100
1919	55.3	106	−23	40.27	36.73	40.46	43.62	10.2	86	181	81	103
1920	54.3	105	−10	37.56	33.62	38.66	40.40	15.4	89	171	82	113
1921	58.2	109	− 8	44.70	39.16	46.40	48.54	11.1	92	173	93	99
1922	56.8	108	− 6	39.68	37.50	41.64	39.90	8.2	85	192	80	93
1923	55.3	108	−11	42.18	33.43	42.47	50.64	8.6	98	165	88	112
1924	53.0	106	−28	40.03	35.28	44.39	40.41	28.3	92	173	91	102
1925	55.6	110	−15	39.15	38.83	36.81	41.82	16.4	84	171	94	100
1926	54.5	108	−20	42.92	42.35	43.85	42.57	23.2	95	160	86	119
1927	55.6	102	−24	55.53	42.03	59.85	64.70	13.4	101	163	91	111
1928	55.2	102	−18	45.88	41.22	46.01	50.40	6.8	90	174	94	98
1929	53.5	105	−23	46.72	44.13	45.56	50.48	22.3	102	155	93	117
1930	55.9	114	−31	31.38	26.71	34.90	32.53	17.6	75	194	84	87
1931	58.0	110	− 5	40.31	41.10	38.85	40.97	14.2	93	175	82	108
1932	55.6	109	−21	38.24	35.88	36.74	42.09	16.0	85	178	93	95
1933	57.3	108	−22	37.62	29.65	37.05	46.16	8.0	86	175	95	95
1934	57.4	117	−26	35.08	30.66	34.92	39.66	23.0	82	187	89	89
1935	55.0	110	−12	48.04	42.33	49.12	52.66	5.0	106	144	89	132
1936	56.3	118	−25	29.42	26.48	30.03	31.73	15.8	73	196	86	84
1937	54.5	105	−15	37.30	29.85	36.16	45.89	15.3	93	160	96	109
1938	58.4	110	− 9	41.00	36.86	42.36	43.83	10.0	92	182	90	93
1939	57.4	108	− 9	38.25	36.16	35.92	42.68	23.3	93	181	96	88
1940	54.0	111	−28	32.42	28.22	34.22	34.84	25.1	94	159	94	113
1941	57.2	110	0	42.15	41.10	48.07	37.31	14.0	102	151	101	113
1942	55.5	106	−24	46.08	42.48	47.87	47.89	18.9	105	154	97	114
1943	55.1	110	−23	37.89	35.73	42.10	35.87	16.1	89	170	103	92
1944	55.9	107	−21	38.99	39.95	41.59	35.44	16.8	101	150	105	111
1945	54.7	105	−20	53.26	42.79	53.20	63.80	19.6	112	144	95	126
1946	57.8	111	−15	44.18	37.70	44.74	50.07	4.1	91	165	93	107
1947	55.4	109	−28	39.84	42.70	38.31	38.49	17.4	94	160	99	106
Period	**55.2**	**118**	**−40**	**40.49**	**36.79**	**41.38**	**43.31**	**17.6**	**90**	**170**	**93**	**102**

HIST.

Climatological Data for Year 1947

Stations	Counties	Elevation, feet	Temperature (Degrees Fahrenheit)						Precipitation (inches)							Number of days				Prevailing direction of wind
			Length of record, years	Annual mean	Highest	Date	Lowest	Date	Length of record, years	Total	Greatest monthly	Month	Least monthly	Month	Total snowfall	With precip. .01 inch or more	Clear	Partly cloudy	Cloudy	
Northern Division																				
Albany	Gentry	930	7	52.6	106	Aug. 30	-5	Feb. 7†	19	46.57§	17.11	June	0.22	Feb.	32.7§	102	165[p]	106[p]	78[p]	s.
Amity	DeKalb	1,007	2	53.2	105	Sept. 3	-21	Jan. 4	13	43.33§	11.63	June	0.17	Feb.	31.0	102	155	72	138	nw.
Bethany	Harrison	916	53	52.4	105	Aug. 30	-28	Jan. 4	55	43.37§	17.89	June	0.12	Feb.	23.1§	85	190	66	109	sw.
Brookfield	Linn	767	6	53.4	108	Sept. 8‡	-21	Feb. 8	6	46.22	14.35	June	0.05	Feb.	27.4§	95	178	91	96	s.
Brunswick	Chariton	652	67	53.4	104	July 30	-20	Jan. 4	69	50.64	16.30	June	T.	Feb.	22.3	97	176	56	133	ne.
Canton, Lock & Dam 20	Lewis	488	10	53.8	103	Aug. 30	-14	Jan. 4	18	39.42	10.07	June	0.06	Feb.	16.8§	101	153	97	115	nw.
Carrollton	Carroll	754	1	54.0	104	July 30	-23	Jan. 4	1	48.16	12.30	June	0.25	Feb.	26.4§	101	172	94	99	s.
Chillicothe 2 mi ESE(C)	Livingston	771	39	52.5	105	Aug. 30	-18	Jan. 4	42	49.71	15.46	June	0.11	Feb.	28.5	117	105	119	141	nw.
Columbia	Boone	740	58	55.6	104	July 30†	-6	Jan. 4	58	35.11	7.02	June	0.23	Feb.	26.8	102	155	106	104	s.
Columbia...9 mi. WNW	Boone	760	16	54.5	103	Aug. 30	-12	Jan. 4	16	37.48	9.41	June	0.15	Feb.	20.8	91	133	113	119	s.
Conception	Nodaway	1,108	59	53.0§	104	Aug. 9†	-19	Jan. 4	64	43.85	14.98	June	0.25	Feb.	21.9§	84	133	135	97	nw.
Edgerton	Platte	856	28	53.2§	108	Sept. 30	*-13*	Jan. 4	45	47.78§	15.33	June	*0.25*	Feb.	*25.7*	84§	131§	133§	101§	sw.§
Elsberry	Lincoln	449	17	53.2§	102	Aug. 6	-10	Jan. 4	17	34.72	6.70	June	T.	Feb.	24.1	90	198	58	109	n.
Fayette	Howard	760	68	54.2	103	Aug. 30	-12	Jan. 4	65	40.67§	10.42	June	0.12	Feb.	10.6§	95	185	61	119	se.
Fulton	Callaway	818	60	54.0	102	Aug. 30	-5	Jan. 4	56	37.08§	9.22	April	0.06	Feb.	24.4§	97	245	50	70	sw.
Grant City	Worth	1,134	44	52.1§	103	Aug. 2†	-19	Jan. 4	56	44.59§	16.82	June	0.10	Feb.	32.1	88	180[b]	65[b]	118[b]	s.
Hannibal	Marion	759	56	53.0	103	Aug. 30	-10	Jan. 4	64	38.10	13.28	June	0.14	Feb.	21.1	93	142	115	108	s.
Kansas City Airport	Jackson	741	59	56.1	109	Sept. 3	-10	Jan. 4	59	46.41	8.19	June	0.45	Feb.	22.3	101	127	108	130	sw.
Kansas City University	Jackson	908	10	56.1	108	Sept. 3	-15	Jan. 4	10	46.00	8.44	April	0.33	Feb.	20.8	98	172	82	111	sw.
Kidder	Caldwell	1,020	56	52.8§	105	Aug. 30	-16	Jan. 4	60	48.95	16.08	June	*T.*	Feb.	27.4§	99	183	52	130	s.
Kirksville	Adair	969	59	52.7§	104	Aug. 30	-13	Jan. 4	66	52.67	19.39	June	0.16	Feb.	19.6§	112	216[d]	55[d]	90[d]	sw.
Kirksville Airport	Adair	970	9	51.3	102	Aug. 30	-15	Jan. 4	9	48.28	17.07	June	0.16	Feb.	21.0	110	91	117	157	s.
Lathrop	Clinton	1,071	1	53.4§	104	Aug. 30	*-16*	Jan. 4	1	60.67	23.60	June	*0.10*	Feb.	*26.2*	103§	§183[b]	§96[b]	§84[b]	nw.§
Louisiana	Pike	469	54	54.3	103	Aug. 30	-12	Jan. 4	67	36.48§	7.39	April	*0.27*	Feb.	33.8§	103	172	92	101	s.
Macon	Macon	875	49	52.0§	102	Aug. 24	-13	Jan. 4	55	48.06	11.76	June	0.05	Feb.	27.3§	107	155	54	156	nw.
Maryville	Nodaway	1,169	58	51.4	99	Aug. 9	-18	Jan. 4	54	45.52	15.35	June	0.17	Feb.	31.5	100	147	60	158	nw.
Memphis	Scotland	787	9	51.1	104	Aug. 24†	-15	Jan. 4	18	41.47§	13.00	June	0.03	Feb.	28.4§	88	126	121	118	nw.
Mexico	Audrain	800	59	52.9	103	Aug. 30†	-11	Jan. 4	70	36.49	8.10	April	T.	Feb.	33.2§	96	144	96	125	sw.
Moberly.....3½ mi. NE	Randolph	860	11	53.1§	103	Aug. 30	*-13*	Jan. 4	11	40.27§	9.02	June	*0.08*	Feb.	29.6§	100§	173§	95§	97§	sw.
New Florence 1 mi. SE.	Montgomery	885	5	53.4	104	Sept. 4	-7	Jan. 4	6	34.33	7.05	June	0.16	Feb.	21.9	100	114	103	148	s.
Oregon	Holt	1,048	92	53.4	108	Sept. 3	-17	Jan. 4	92	40.53§	10.81	June	0.13	Feb.	36.7§	92	206	61	98	s.
Polo	Caldwell	1,000	1	52.6§	103	July 30†	-13	Jan. 4	1	56.10	21.05	June	*T.*	Feb.	27.5	109	181	107	77	s.
St. Charles	St. Charles	520	60	....	103	Aug. 3†	..	....	70	35.39	7.72	April	0.27	Feb.	24.3§	104	..	..	..	......
St. Joseph	Buchanan	957	38	54.2	107	Sept. 3	-15	Jan. 4	76	40.15	11.43	June	0.31	Feb.	35.3	99	163	91	111	s.
Salisbury	Chariton	723	1	54.4	103	July 30†	-14	Jan. 4	1	51.64	17.13	June	0.17	Feb.	31.5§	102	169	90	106	s.
Saverton	Ralls	472	10	54.5§	102	Aug. 6†	-7	Jan. 4	10	37.98	7.86	June	0.03	Feb.	22.0§	107	200[a]	71[a]	93[a]	nw.
Shelbina	Shelby	779	7	53.6	104	Aug. 30†	-14	Jan. 4	25	46.23	12.61	June	0.16	Feb.	20.7	94	164[a]	77[a]	123[a]	sw.
Steffenville	Lewis	650	50	53.2	104	Aug. 10†	-14	Jan. 4	55	43.90	10.80	June	0.13	Feb.	23.5	107	168	88	109	nw.
Tarkio	Atchison	916	45	51.5	102	Aug. 30	-28	Jan. 4	54	32.20	12.23	June	0.11	Feb.	16.4	92	101	116	148	s.
Trenton	Grundy	822	52	54.1	106	Aug. 30	-17	Jan. 4	53	51.39	18.35	June	0.05	Feb.	25.0§	111	153	139	73	s.
Unionville	Putnam	1,062	55	50.1	103	Aug. 30	-16	Jan. 4†	55	42.83§	12.24	June	0.05§	Feb.	20.2§	97	145	123	97	s.
Vandalia	Audrain	766	3	53.2	103	Sept. 7	-14	Jan. 4	8	32.92§	8.19	June	0.10	Feb.	19.5	70	204[c]	73[c]	73[c]	e.
Warrenton	Warren	816	66	54.8	105	Sept. 4	-7	Jan. 4	58	36.01	6.96	June	0 08	Aug.	24.0	94	187	123	55	w.
Keokuk, Iowa	Lee, Iowa	574	76	53.2	103	Aug. 24	-10	Jan. 4	76	34.88	9.31	June	0.21	Feb.	13.8	101	154	135	76	sw.
Division means	**and extremes**	......	..	**53.3**	**109**	**Sept. 3**	**-28**	**Jan. 4**	..	**42.70**	**23.60**	**June**	**0.00**	**Feb.**	**25.3**	**98**	**161**	**93**	**111**	**s.**
Southwestern Division																				
Anderson....1½ mi. SW	McDonald	1,000	44	55.2	104	Aug. 9†	-7	Jan. 4	49	36.13	9.81	April	0.25	Feb.	6.5§	86	229[c]	42[e]	89[e]	sw.
Appleton City..2 mi. W	Bates	813	53	56.0	105	Sept. 3†	-13	Jan. 4	56	41.38§	8.34	June	0.22	Feb.	10.8	101	183	122	60	sw.
Bolivar	Polk	1,071	45	57.3	106	Sept. 7	0	Jan. 4†	53	37.53	7.39	April	0.38	Feb.	9.3	97	166	112	87	sw.
Boonville	Cooper	650	10	53.4	103	July 30	-11	Jan. 4†	71	42.58§	7.27	April	0.07	Feb.	32.2	103	155	79	131	sw.
Butler	Bates	865	1	55.9	106	Sept. 3	-17	Jan. 4	7	42.05	8.18	June	0.32	Feb.	19.6	108	123[b]	140[b]	94[b]	se.
Camdenton	Pulaski	940	1	57.9	107	July 31†	1	Jan. 4	1	41.72§	10.77	June	0.24	July	16.5	72	161[e]	124[e]	75[e]	sw.
Carthage	Jasper	962	14	58.0	109	Aug. 31	-9	Jan. 5	24	41.73	9.42	April	0.49	Feb.	8.5§	75	119	213	33	sw.
Clinton	Henry	786	55	56.0	107	Aug. 31	-13	Jan. 4	61	46.19	9.41	June	0.24	Feb.	10.1	93	170	112	83	s.
Eldon	Miller	934	53	56.4	105	Sept. 4	-7	Jan. 4	49	37.66	7.00	April	0.21	Feb.	14.0§	88	126[d]	172[d]	63[d]	sw.
Harrisonville	Cass	904	70	54.7	108	Sept. 3	-13	Jan. 4†	73	46.37	11.44	June	0.16	Feb.	13.8§	103	172	57	136	se.
Jefferson City	Cole	557	58	55.2	104	July 30†	-7	Jan. 4	66	35.73	8.44	April	0.03	Feb.	16.3	110	189	79	97	sw.
Joplin Airport	Jasper	988	26	57.8	106	Aug. 31	-8	Jan. 4	43	41.01	8.27	April	0.82	Feb.	9.7	94	97	124	144	s.
Lakeside	Miller	595	17	55.9	106	Sept. 7	-3	Jan. 4†	17	34.88	8.73	April	0.09	Feb.	18.3	95	167	97	101	sw.
Lamar	Barton	980	60	55.7	105	Sept. 3†	-11	Jan. 4†	67	36.75	5.95	April	0.30	Dec.	6.0§	76	207	76	82	sw.
Lebanon	Laclede	1,265	60	56.2	106	July 31†	-5	Jan. 4	61	33.27	8.26	April	0.37	Feb.	8.0§	93	134	112	119	sw.
Lexington	Lafayette	688	63	55.0§	106	July 30†	-8	Jan. 4	64	50.07§	17.22	June	T.	Feb.	20.2	83§	§202[f]	§62[f]	§95[f]	s.
Lockwood	Dade	1,078	42	57.9	108	Sept. 7	-5	Jan. 4	52	47.06	8.57	April	0.42	Jan.	11.0	75	186	128	51	sw.
Marshall	Saline	779	61	55.1	102	July 30†	-11	Jan. 4	58	42.90	12.71	June	0.12	Feb.	27.5§	84	168	118	79	s.
Monett	Barry	1,317	1	56.4§	103	Sept. 4	-1	Jan. 4	1	37.84	9.14	April	0.34	Feb.	6.6	84	181	116	68	s.
Mountain Grove	Wright	1,463	47	56.8	104	Sept. 4	1	Jan. 4	51	36.07	6.74	April	0.27	Feb.	8.3	93	167	122	76	se.
Mount Vernon	Lawrence	1,174	36	57.8§	106	Sept. 7	0	Jan. 4	48	37.59	10.13	April	0.30	Feb.	*10.1*	84	145	151	69	s.
Neosho	Newton	1,011	61	58.4	105	Aug. 31†	-5	Jan. 4	65	36.60	12.28	April	0.43	Feb.	7.7§	89	198[a]	103[a]	63[a]	se.
Nevada	Vernon	862	55	57.7	108	Sept. 7	-18	Jan. 4	56	41.41	7.96	Sept.	0.47	Feb.	8 8	86	205	63	97	sw.
Ozark Beach	Taney	700	8	58.3§	106	Sept 7	4	Feb. 9	23	32.98	7.00	May	0.56	Feb.	7.3§	83	110	152	103	sw.
Sedalia	Pettis	910	35	56.0	104	July 30	-13	Jan. 4	37	45.04	10.89	June	0.19	Feb.	17.2§	97	187	68	110	sw.
Seligman	Barry	1,542	47	57.2§	102	Sept. 4†	-1	Jan. 4	45	27.07§	5.21	May	0.35	Feb.	6.5	67	176	126	54	s.
Seymour.....4 mi. NE	Webster	1,642	42	53.5§	101	Sept. 7	-2	Mar. 3†	42	37.12	8.31	April	0.39	Dec.	11.9§	72	196[a]	62[a]	106[a]	s.
Springfield...4 mi. NW	Greene	1,265	60	55.6	104	Sept. 7	-1	Jan. 4	60	39.62	7.38	April	0.35	Feb.	9.6	113	118	113	134	s.
Sweet Springs	Saline	700	7	54.8§	104	July 30†	-23	Jan. 4	7	46.49	12.44	June	0.21	Feb.	19.2§	106	168[b]	125[b]	70[b]	s.
Warrensburg	Johnson	878	61	56.4	104	Aug. 30†	-10	Jan. 4	68	44.51	10.10	June	0.23	Feb.	13.2§	99	185	96	84	s.
Warsaw	Benton	687	47	57.4	108	Sept. 7	-19	Jan. 5	53	42.00	9.33	June	0.16	Feb.	14.7§	96	186	82	97	se.
Wasola	Ozark	1,294	7	57.9§	103	Aug. 6†	2	Jan. 4	7	30.26	4.78	April	0 65	Feb.	10.2§	83	176	118	71	s.
Division means	**and extremes**	......	..	**56.4**	**109**	**Aug. 31**	**-23**	**Jan. 4**	..	**38.31**	**17.22**	**June**	**T.**	**Feb.**	**12.7**	**90**	**168**	**110**	**87**	**sw.**
Southeastern Division																				
Advance......¼ mile W	Stoddard	354	11	56.5	107	Aug. 5	6	Feb. 8	11	39.61	6.20	Oct.	0.46	Feb.	13.8	96	131	100	134	s.
Arcadia	Iron	926	67	55.0	107	July 31	2	Feb. 8	70	42.76	9.58	April	0.20	Feb.	17.7§	74	158	43	164	w.
Birch Tree....½ mile E	Shannon	1,000	53	56.8§	108	July 31	0	Mar. 3	54	30 64§	5.87§	April	0.53	Feb.	7.3	76	173[v]	116[v]	54[v]	nw.
Black.......9 miles NW	Iron	1,000	55	54.0§	103	July 31	-4	Mar. 3	55	40.90	8.04	April	0.31	Feb.	13.9§	96	153[p]	136[p]	60[p]	sw.
Campbell	Dunklin	314	22	58.9	104	Aug. 4†	8	Feb. 28	22	39.57	5.87	April	0.22	Feb.	7.5	108	186[k]	100[k]	68[k]	s.
Cape Girardeau	Cape Girardeau	347	2	57.9	104	Aug. 3	5	Feb. 8	48	42.44	6.41	April	0.22	Feb.	10.6§	103	151	128	86	sw.
Caruthersville	Pemiscot	265	52	60.5	101	Sept. 5	8	Feb. 8	56	39.02	6.00	April	0.61	Feb.	11.8	85	200	70	95	s.
Clearwater Dam	Wayne	648	1	57.6§	105	July 31	4	Feb. 8	1	36.18	5.91	April	0.40	Feb.	9.7§	89	168	79	118	s.
Crystal City	Jefferson	420	13	57.0	104	July 30	6	Jan. 4†	14	37.88	6.17	April	0.26	Feb.	22.3§	100	128[a]	63[a]	173[a]	nw.
Doniphan	Ripley	344	44	58.4	108	Aug. 5†	4	Feb. 10	44	36.25	5.69	June	0.37	Feb.	6.3§	92	214[a]	58[a]	92[a]	nw.
Farmington	St. Francois	896	37	55.5	104	Aug. 6	2	Feb. 8	51	40.87§	8.63	April	0.22	Feb.	20.4§	100	137	77	151	s.
Greenville...1 mi. SW	Wayne	415	39	57.3§	*106*	Aug. 5	4	Feb. 10	41	43.99§	8.69	June	0.43§	Feb.	11.5§	94	§172[b]	§91[b]	§94[b]	s
Jackson	Cape Girardeau	428	57	57.8	105	Aug. 3†	6	Feb. 8	58	40.58	6.25	April	0.30	Feb.	13.9	102	145	135	85	s.

Continued on next page

Climatological Data for Year 1947—Continued from preceding page

Stations	Counties	Elevation, feet	Temperature, (Degrees, Fahrenheit)						Precipitation (inches)							Number of days				Prevailing direction of wind
			Length of record, years	Annual mean	Highest	Date	Lowest	Date	Length of record, years	Total	Greatest monthly	Month	Least monthly	Month	Total snowfall	With precip. .01 inch or more	Clear	Partly cloudy	Cloudy	
Southeastern Division—	*Concluded*																			
Koshkonong	Oregon	958	47	58.7	105	Sep. 4	-1	Jan. 4	48	31.10	5.24	April	0.46	Aug.	13.8§	94	190	66	109	se.
Licking ......4 miles N	Texas	1,170	11	55.0§	104	July 31†	0	Jan. 4	11	33.99	8.86	April	0.18	Feb.	13.3§	67	144[q]	60[q]	144[q]	s.
Marble Hill	Bollinger	532	53	56.4	107	Aug. 5†	4	Feb. 8	55	40.00	6.09	June	0.56	Feb.	10.0§	91	211	79	75	s.
Poplar Bluff	Butler	339	43	58.8	105	Aug. 6	7	Feb. 8	44	35.57	6.64	June	0.19	Feb.	6.0	93	186	65	114	s.
Rolla	Phelps	1,202	48	54.4	105	July 31	-2	Jan. 4	64	39.22	7.38	Oct.	0.20	Feb.	23.7	89	137	160	68	w.
St. Louis:																				
City Office		465	111	56.6	102	Aug. 24	5	Jan. 4†	111	37.12	7.39	June	0.41	Feb.	21.6	119	132	88	145	s.
St. Louis Airport	St. Louis	556	11	55.7	104	Aug. 6	0	Jan. 4	17	35.78	7.44	June	0.27	Feb.	23.4	101	126	54	185	s.
St. Louis University	St. Louis City	578	36	56.3	103	Aug. 6	4	Jan. 4	36	35.57	6.35	June	0.57	July	26.5§	121	189[a]	85[a]	90[a]	se.
Washington Univ.	St. Louis	536	10	55.5	104	Aug. 6	1	Jan. 4	10	37.22	7.14	April	0.23	Feb.	*23.8*	104	..	..	..	.....
Salem	Dent	1,206	44	55.9	104	Sept. 4†	0	Jan. 4	47	38.88	8.02	April	0.29	Feb.	11.8	86	150	128	87	s.
Sikeston	Scott	318	41	57.6	106	Aug. 5†	7	Feb. 8	51	41.15	6.40	April	0.35	Feb.	11.7	102	131	163	71	s.
Union........ 1½ mi. SE	Franklin	520	10	55.6§	109	Sept. 4	-2	Jan. 4	31	31.80	5.95	Oct.	0.23	Feb.	22.0§	104	163[c]	82[c]	117[c]	nw.
Vichy...... 2 miles NW	Maries	1,125	12	55.0	104	Sept 8	-5	Jan. 4	13	39.30	8.52	June	0.25	Feb.	15.8	92	110	125	130	sw.
Wappapello Dam	St. Louis	475	9	57.5	106	Aug. 3	5	Feb. 8	9	40.41	5.89	Aug.	0.43	Feb.	10.1§	105	195	60	110	s.
Webster Groves	Butler	507	2	55.5	104	Aug. 6	1	Jan. 4	3	36.17	6.76	June	0.31	Feb.	16.2	96	179	92	94	nw.
Weingarten	St. Genevieve	833	7	55.7§	106	Sept. 8	2	Feb. 8	8	37.47§	8.63	April	0.30§	Feb.	17.0§	78	119	166	80	n.
West Plains	Howell	1,005	11	56.4	107	July 31	5	Feb. 8†	11	32.89	5.92	Dec.	0.85	Feb.	13.9	100	112	116	137	s.
Willow Sprgs..500 ft. E	Howell	1,238	7	56.5	103	Sept. 4†	3	Jan. 4†	41	33.43	7.07	April	0.52	Feb.	9.5§	77	170	96	99	s.
Cairo, Ill	Alexander, Ill	314	76	59.0	103	Aug. 5	8	Feb. 8	77	39.22	6.30	April	0.55	Feb.	11.0	109	109	109	147	ne.
Division means	**and extremes**	......	..	**56.7**	**109**	**Sept. 4**	**-5**	**Jan. 4**	..	**38.49**	**9.58**	**April**	**0.10**	**Feb.**	**14.3**	**95**	**156**	**98**	**111**	**s.**
State means	**and extremes**	......	..	**55.4**	**109**	**Aug. 31†**	**-28**	**Jan. 4**	..	**39.84**	**23.60**	**June**	**0.00**	**Feb.**	**17.4**	**94**	**160**	**99**	**106**	**s.**

Figures and letters following station indicate distance and direction of station from the city Post Office, unless otherwise indicated. [a], [b], [c], indicate the number of days missing from records, a, 1; b, 2; c, 3; etc. † Also on other dates. Italics data interpolated. § Partly interpolated. (C) Airport.

Monthly and Annual Evaporation (Inches) and Wind Movement (Miles) or the Year 1947

(See temperature and precipitation data in Climatological Tables)

Stations	Data	January	February	March	April	May	June	July	August	Sept.	October	Nov.	Dec.	Annual
Columbia (University of Mo.)	Evaporation	.....	.....	.....	4.475	6.097	6.243	7.554	8.435	6.858	3.581	.....	.....	.....
	Wind movement	2,886	3,195	3,425	3,040	1,933	1,572	564	629	1,241	701	1,910	2,185	23,281
Lakeside	Evaporation	.....	.....	.....	4.368	6.455	6.169	7.954	8.517	6.914	4.307	1.763	1.447	.....
	Wind movement	2,334	2,421	2,254	2,289	1,872	1,758	1,147	850	1,410	1,176	2,007	1,204	20,722
St. Louis (Washington Univ.)	Evaporation	.....	.....	.....	3.517	5.203	5.265	6.494	7.220	4.701	2.520	0.767	.....	.....
	Wind movement	1,553	1,758	2,031	1,911	1,041	799	513	324	889	643	1,275	1,393	14,130

KILLING FROSTS, 1947

Stations	Last in Spring	First in Autumn	Days in Growing Season
Northern Division			
Albany	May 29*	Nov. 7*	162
Amity	do 9	do 7	182
Bethany	April 7	do 8	215
Brookfield	do 21*	do 6*	199
Browning	do 2	do 8	220
Brunswick	do 7*	do 8*	215
Canton	Mar. 30*	do 9*	224
Carrollton	April 30	do 8	192
Chillicothe Airport	do 30*	do 7*	191
Columbia	Mar. 30	do 9	224
Columbia(near)	April 7*	do 9	216
Conception	May 29	do 7*	162
Edgerton	do 29*	do 8	163
Elsberry	do 10*	do 6*	180
Fayette	April 7*	do 8	215
Fulton	Mar. 30*	do 8	223
Grant City	May 29	do 8	163
Hannibal	April 7*	do 8	215
KansasCityAirport	Mar. 26	do 8	227
Kansas City Univ.	do 30*	do 8	223
Kidder	May 29*	do 8	163
Kirksville	April 21*	do 8	201
Kirksville Airport	do 16*	do 7*	205
Lathrop	do 16	do 7	205
Louisiana	do 17	do 6*	203
Macon	do 8*	do 6	212
Maryville	May 29*	do 7	162
Memphis	April 21*	do 8*	201
Mexico	do 14*	do 11	211
Moberly	Mar. 30	do 11	226
New Florence	do 30*	do 8*	223

Stations	Last in Spring	First in Autumn	Days in Growing Season
Oregon	April 16	Nov. 7	205
Polo	May 29*	do 11	166
St. Charles	....	do 9*	....
St. Joseph Airport	April 16	do 7	205
Salisbury	do 7*	do 8*	215
Saverton	May 9*	do 11	186
Shelbina	April 7	do 9*	216
Steffenville	do 7	do 9	216
Tarkio	May 29*	Oct. 29*	153
Trenton	April 7*	Nov. 8*	215
Unionville	May 29*	do 7	162
Vandalia	April 9*	do 8*	213
Warrenton	May 9*	do 9	184
Keokuk, Iowa	Mar. 30*	do 9	224
Southwestern Division			
Anderson	April 26*	Nov. 8	196
Appleton City	Mar. 30*	do 16	231
Bolivar	do 30*	do 8	223
Boonville	do 30*	do 8	223
Butler	April 17*	do 8	205
Camdenton	Mar. 30*	do 9*	224
Carthage	April 17*	do 11	208
Clinton	Mar. 30*	do 11	226
Eldon	do 30*	do 9	224
Hailey	....	do 25	....
Harrisonville	April 7*	do 8*	206
Jefferson City	May 9*	do 6*	181
Joplin Airport	Mar. 30*	do 11	226
Lakeside	do 30*	do 12	227

Stations	Last in Spring	First in Autumn	Days in Growing Season
Lamar	Mar. 30*	Nov. 12	227
Lebanon	do 30	do 8*	223
Lexington	April 7*	do 8	215
Lockwood	Mar. 30*	do 11	226
Marshall	April 20*	do 8*	202
Monett	do 17	do 12	209
Mountain Grove	Mar. 30	do 12	227
Mount Vernon	April 17*	do 11	208
Neosho	April 17*	do 12	209
Nevada	Mar. 30*	do 8	223
Ozark Beach	April 17*	do 8*	205
Sedalia	Mar. 30*	do 8	223
Seligman	April 17*	do 12	209
Seymour	do 18*	do 8*	204
Springfield	Mar. 30	do 11	226
Sweet Springs	April 7*	do 8	215
Warrensburg	Mar. 30*	do 8	223
Warsaw	do 30*	do 9	224
Wasola	April 17*	do 8*	205
Waynesville	....	do 7*	....
Southeastern Division			
Advance	April 17*	Nov. 7*	204
Arcadia	May 10*	do 6*	180
Birch Tree	April 26*	do 6*	194
Black(near)	May 30*	do 6*	160
Campbell	Mar. 30*	do 8	223
Cape Girardeau	do 30*	do 8*	223
Caruthersville	do 26*	do 12	231
Clearwater Dam	April 26*	do 6*	194

Stations	Last in Spring	First in Autumn	Days in Growing Season
Crystal City	April 17	Nov. 8	205
De Soto	do 17	do 8	205
Doniphan	do 17*	do 6	203
Farmington	Mar. 30	do 8	223
Greenville	May 11*	do 6*	179
High Lookout	April 17	do 7	204
Jackson	do 17	do 8	205
Koshkonong	Mar. 30*	do 8	223
Licking	April 17*	do 7*	204
Marble Hill	Mar. 30	do 8	223
Morehouse	....	do 12	....
Poplar Bluff	Mar. 28	do 6	223
Rolla	April 17*	do 12	209
St. Louis:			
City Office	Mar. 28	do 12	229
St. Louis Airport	do 30*	do 12	227
St. Louis Univ.	do 30*	do 12	227
Washington U.	do 30*	do 8*	223
Salem	April 17*	do 12	209
Sikeston	do 12*	do 12	214
Union	do 17*	do 6*	203
Vichy	Mar. 30*	do 7*	222
Wappapello Dam	do 30*	do 12	227
Webster Groves	do 30*	do 9	224
Weingarten	April 17*	do 12	209
West Plains	do 17	do 9	206
Willow Springs	do 17*	do 8*	205
Cairo, Ill.	Mar. 28	do 9	226

* Occurrence of killing frost not recorded; dates given are last in spring and first in autumn of temperature 32° or lower.

Monthly and Annual Precipitation for the Year 1947, with Departures from Normal

Stations	January		February		March		April		May		June		July		August		September		October		November		December		Annual	
	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure
Northern Division																										
Albany	§1.18	+0.35	0.22	−1.40	8.88	+2.19	5.60	+2.81	4.57	+1.89	17.11	+11.87	2.35	−2.28	1.71	−1.89	2.13	−3.42	3.89	+1.10	§2.10	+0.39	1.83	+0.96	§46.57	+12.57
Amity	1.19	−0.36	0.17	−1.35	§4.85	+2.58	5.26	+1.16	4.71	−0.54	11.63	+4.63	2.08	−0.55	2.47	−1.73	2.90	+0.16	3.20	+1.07	2.43	−0.25	2.44	+0.40	§43.23	+ 5.22
Auxvasse	0.82	......	0.26	......	4.14	......	6.82	......	3.18	......	8.51	......	2.92	......	1.11	......	2.49	......	3.36	......	1.51	......	2.08	......	37.20	......
Bethany	0.44	−0.75	0.12	−1.30	§2.92	+0.69	5.04	+1.75	5.48	+1.31	17.89	+12.83	1.57	−2.59	1.75	−2.07	2.78	−1.78	3.26	+0.34	1.64	−0.40	0.48	−0.67	§43.37	+ 7.36
Bowling Green	1.05	−0.85	T.	−1.44	2.17	+0.03	8.34	+5.80	3.36	−0.48	6.71	+3.47	1.78	−1.00	1.05	−2.76	2.75	+0.04	3.27	+1.02	2.00	−0.84	1.92	−0.13	34.40	+ 2.86
Brookfield	2.15	......	0.05	......	4.01	......	5.76	......	5.00	......	14.35	......	2.82	......	0.96	......	3.99	......	2.96	......	2.04	......	2.13	......	46.22	......
Browning ... 3 mi. NE	1.16	......	0.40	......	3.60	......	3.95	......	5.89	......	19.73	......	1.76	......	0.56	......	4.72	......	4.62	......	2.51	......	2.02	......	50.92	......
Brunswick	0.96	−0.63	T.	−1.81	3.77	+1.07	7.31	+3.48	5.36	+0.75	16.30	+11.19	4.14	+0.03	1.26	−2.68	4.21	−0.60	3.56	+0.56	1.50	−0.69	2.27	−0.60	50.64	+11.27
Canton, L. & D. No. 20	1.42	−0.52	0.06	−1.20	2.21	−0.13	6.27	+3.51	4.78	−0.54	10.07	+5.29	1.37	−0.96	1.03	−2.13	4.19	+0.45	2.66	+0.40	3.42	+0.71	1.94	+0.31	39.42	+ 5.19
Carrollton	1.00	......	0.25	......	4.94	......	7.49	......	4.54	......	12.30	......	1.78	......	2.93	......	4.47	......	3.84	......	2.19	......	2.43	......	48.16	......
Centralia	0.97	−0.49	0.04	−1.45	3.44	+0.57	7.49	+3.09	3.64	−1.60	8.26	+2.25	4.21	+1.46	1.00	−3.31	3.61	−0.05	2.43	−0.71	1.58	−1.04	1.81	−0.24	38.48	− 1.52
Chillicothe ......(B)	§0.84	......	T	......	3.35	......	5.36	......	6.11	......	13.81	......	3.66	......	1.31	......	5.10	......	2.73	......	2.31	......	2.15	......	§46.73	......
Chillicothe 2mi ESE (C)	0.49	−0.99	0.11	−1.34	4.19	+1.71	5.05	+1.83	7.80	+3.71	15.46	+10.73	1.62	−1.80	1.21	−2.75	5.77	+0.99	2.78	−0.36	2.59	+0.47	2.64	+1.22	49.71	+13.42
Columbia	0.96	−0.96	0.23	−1.81	3.93	+0.99	6.45	+2.68	3.24	−1.22	7.02	+2.26	2.03	−1.46	1.20	−2.40	3.34	−1.01	3.07	+0.46	1.65	−0.55	1.99	+0.13	35.11	− 2.89
Columbia .. 9 mi WNW	0.99	......	0.15	......	3.67	......	6.17	......	3.72	......	9.41	......	1.77	......	1.25	......	4.14	......	2.72	......	1.71	......	1.78	......	37.48	......
Conception	1.06	+0.27	0.25	−0.90	3.57	+1.92	6.35	+3.62	5.42	+1.36	14.98	+10.03	1.60	−3.07	1.48	−2.16	3.03	−1.61	2.33	−0.55	1.93	+0.19	1.85	+0.97	43.85	+10.07
Edgerton	*0.92*	+0.07	*0.25*	−1.09	*5.01*	+2.75	4.98	+1.90	4.81	+0.61	15.33	+10.46	2.03	−1.47	1.21	−2.83	3.99	−0.60	4.47	+1.85	2.40	+0.43	2.38	+1.26	§47.78	+13.34
Edina	1.35	−0.31	T.	−1.13	2.03	+0.04	6.38	+3.25	6.23	+2.38	14.85	+9.41	0.54	−1.93	0.78	−3.32	6.44	+1.82	4.30	+2.04	2.78	−0.29	1.89	+0.55	47.57	+12.51
Elsberry S. C. S.	1.08	−1.09	T.	−1.66	3.20	+0.44	5.69	+2.64	2.62	−0.70	6.70	+3.26	1.53	−0.46	1.81	−1.45	2.83	−0.17	4.28	+1.77	3.23	+0.41	1.75	−0.46	34.72	+ 2.53
Fayette	1.30	−0.49	0.12	−1.58	§3.93	+1.11	6.61	+3.06	4.55	+0.23	10.42	+5.85	1.11	−2.14	0.88	−2.68	4.67	−0.29	2.51	−0.38	2.12	+0.02	2.45	+0.79	§40.67	+ 3.50
Fulton	1.16	−0.86	0.06	−1.61	§2.72	−0.24	9.22	+5.21	3.36	−1.24	6.40	+2.00	3.66	+0.37	0.50	−3.15	3.36	−1.13	3.41	−0.01	1.96	−0.35	1.27	−0.74	§37.08	− 1.75
Gallatin	1.18	−0.04	0.02	−1.57	4.28	+1.96	6.38	+2.82	4.84	+0.12	17.92	+12.86	2.11	−2.01	2.50	−1.30	4.91	−0.29	3.35	+0.17	§1.59	−0.49	§2.19	−0.91	§51.27	+13.14
Grant City	1.03	+0.06	0.10	−1.01	§3.20	+1.19	6.19	+3.23	5.20	+0.97	16.82	+11.82	0.85	−3.78	2.29	−1.65	1.60	−3.09	3.73	+0.69	§1.78	−0.07	1.80	+0.74	§44.59	+ 9.10
Hannibal ....(A)	1.26	−0.46	0.14	−1.72	2.69	+0.09	5.39	+2.20	4.32	−0.03	13 28	+9.38	0.52	−2.57	0.24	−3.10	2.11	−1.86	3.78	+1.39	1.88	−0.18	2.49	+0.95	38.10	+ 4.09
Hannibal ....(B)	1.61	......	0.13	......	1.92	......	6.48	......	4.16	......	12.06	......	0.96	......	0.23	......	1.67	......	3.30	......	4.19	......	2.59	......	39.30	......
Hermann	0.95	−0.98	0.16	−1.49	3.42	+0.59	7.04	+3.01	3.93	−0.24	6.25	+1.88	2.21	−1.13	0.61	−3.06	2.78	−1.60	5.45	+1.82	2.10	−0.37	0.88	−0.93	35.78	− 2.50
Kahoka	§1.01	−0.87	§0.04	−1.03	§1.55	−0.56	7.43	+4.17	5.43	+1.17	11.17	+6.26	0.11	−1.77	2.62	−0.66	7.38	+2.84	3.05	+0.60	3.36	+0.01	§1.95	+0.26	§45.10	+10.42
Kansas City Airport	0.83	−0.41	0.45	−1.04	5.03	+2.72	7.76	+4.24	4 26	+0.32	8.19	+3.51	1.07	−2.75	4.35	+0.81	4.01	+0.19	5.25	+2.56	1.60	−0.62	3.61	+2.41	46.41	+11.94
Kansas City Univ	0.75	−0.79	0.33	−0.88	4.90	+2.09	8.44	+3.15	4.37	−0.18	8.36	+1.95	0.55	−2.01	3.20	−1.29	5.65	+1.85	4.32	+1.38	1.91	+0.03	3.22	+1.26	46.00	+ 6.56
Kidder	0.95	−0.27	T.	−1.54	3.97	+1.78	6.75	+3.47	5.22	+0.57	16.08	+11.11	2.02	−1.86	1.70	−2.26	4.36	−0.84	3.59	+0.52	2.26	+0.11	2.05	+0.78	48.95	+11.57
King City	1.78	+0.64	0.15	−1.35	4.95	+2.89	5.86	+2.56	4.46	+0.25	17.81	+12.50	1.86	−1.68	2.24	−1.44	1.69	−3.73	3.38	+0.48	2.23	+0.27	§2.07	+0.99	§48.48	+12.38
Kirksville	1.09	−0.43	0.16	−1.37	2.34	−0.60	5.02	+0.92	5.86	+0.53	19.39	+14.33	2.72	−1.58	1.42	−2.70	5.87	+0.69	4.61	+1.45	2.09	−0.03	2.10	+0.34	52.67	+11.55
Kirksville Airport	0.73	......	0.16	......	2.34	......	4.68	......	5.50	......	17.07	......	3.40	......	0.35	......	5.54	......	3.86	......	2.07	......	2.58	......	48.28	......
La Belle	1.67	0.00	T.	−1.27	2.47	+0.15	6.20	+3.29	6.33	+1.89	10.12	+4.88	0.30	−1.83	1.38	−3.24	5.55	+1.48	3.16	+0.88	3.27	+0.17	1.98	+0.44	42.43	+ 6.84
Lathrop	*1.03*	......	*0.10*	......	*4.85*	......	7.52	......	5.63	......	23.60	......	1.93	......	2.30	......	4.95	......	3.75	......	2.52	......	2.49	......	§60.67	......
Linneus	0.69	−1.28	0.10	−1.07	§4.04	+2.10	5.69	+2.59	7.04	+2.94	14.79	+10.07	0.70	− 2.16	1.26	−2.70	4.08	+0.35	2.91	+0.26	2.04	−0.53	§2.11	+0.73	§45.45	+11.30
Louisiana ....(A)	1.12	−1.03	*0.27*	−1.81	§3.60	+0.13	7.39	+3.67	5.57	+0.87	6.09	+1.86	0.62	−2.98	0.34	−4.20	2.40	−2.03	4.30	+1.02	2.25	−0.21	2.53	+0.63	§36.48	− 4.08
Lousiana ....(B)	1.34	......	0.02	......	3.16	......	7.58	......	5.99	......	7.00	......	1.39	......	0.13	......	2.78	......	3.44	......	2.39	......	1.70	......	36.92	......
Lucerne	0.80	−0.22	T.	−1.20	§2.32	+0.27	6.71	+3.15	§4.15	−0.58	§16.47	+10.83	§1.62	−1.44	1.80	−2.64	3.50	−2.16	3.72	+0.19	§1.90	−0.38	1.91	+0.30	§44.90	+ 6.12
Macon	1.37	−0.33	0.05	−1.65	2.72	−0.12	6.34	+2.68	4.31	−0.28	11.76	+7.04	3.89	+0.48	4.19	+0.38	5.95	+1.51	3.34	+0.45	1.88	−0.31	2.26	+0.62	48.06	+10.47
Madison	0.71	−1.23	0.00	−1.60	2.54	+0.44	6.59	+3.69	5.31	+0.77	8.04	+2.67	4.57	−1.60	1.02	−2.29	4.71	+0.98	2.95	+0.07	§1.43	−1.59	1.63	−0.27	§39.50	+ 3.24
Martinsburg	2.12	......	0.03	......	3.12	......	7.68	......	3.41	......	6.76	......	2.44	......	1.93	......	2.40	......	4.18	......	1.94	......	1.84	......	37.85	......
Maryville	1.25	+0.25	0.17	−1.26	3.67	+1.80	6.16	+3.15	4.56	−0.09	15.35	+10 24	3.17	−2.06	2.06	−1.92	1.58	−3.10	3.46	+0.49	2.01	+0.09	2.08	+1.00	45.52	+ 8.59
Memphis	1.00	−0.53	0.03	−0.94	§1.44	−0.92	4.60	+1.40	4.63	+0.62	13.00	+7.87	0.60	−2.20	1.60	−2.37	7.19	+3.01	3.33	+1.40	§2.38	−0.61	1.67	+0.39	§41.47	+ 7.12
Mexico	0.85	−1.18	T.	−1.85	3.61	−0.70	8.10	+4.35	2.61	−1.99	7.58	+2.84	3.85	+0.64	1.08	−2.77	2.61	−2.36	2.54	−0.53	1.90	−0.33	1.76	−0.15	36.49	− 2.63
Milan	1.37	+0.20	0.13	−1.25	3.04	+0.79	4.48	+0.51	4.74	−0.08	18.19	+13.09	2.12	−0.96	1.39	−2.85	5.51	−0.03	5.64	+1.67	2.22	+0.04	2.14	+0.33	50.97	+11.46
Moberly	*1.16*	−0.60	*0.08*	−1.44	§2.99	+0.31	7.04	+3.01	4.68	+0.71	9.02	+4.06	2.66	+0.06	0 35	−3.46	5.42	+1.94	2.50	−0.85	2.18	−0.36	§2.19	+0.20	§40.27	+ 3.58
Monroe City	1.10	−0.81	0.04	−1.37	3.19	+0.30	6.45	+2.78	6.40	+2.00	10.50	+5.42	1.15	−2.51	0.18	−4.14	4.40	−0.42	4.04	+1.44	2.56	+0.24	3.29	+1.36	43.30	+ 4.29
New Florence 1 mi. SE	0.99	......	0.16	......	2.66	......	6.85	......	4.04	......	7.05	......	1.80	......	0.16	......	3.06	......	3.64	......	1.63	......	2.29	......	34.33	......
Oregon	0.36	−0.57	0.13	−1.24	§3.53	+1.57	5.87	+2 58	4.62	+0.09	10.81	+5.44	3.48	−0.70	1.46	−2.34	1.32	−3.78	4.55	+1.80	§1.99	+0.01	§2.41	+1.37	§40.53	+ 4.23
Palmyra	§1.29	−0.71	0.00	−1.74	§2.39	−0.29	5.46	+1.73	4.33	+0.02	11.45	+6.70	0.46	−2.79	0.46	−3.38	3.54	−1.23	2.99	+0.63	2.97	+0.73	1.59	−0.05	§36.93	− 0.38
Paris	0.97	−0.82	0.01	−1.42	§2.90	+0.63	6.69	+4.22	5.82	+1.32	7.92	+3.78	3.54	+0.90	1.44	−2.14	4.63	+1.36	3.52	+1.65	2.52	−0.47	1.90	+0.02	§41.86	+ 9.03
Perry	§0.74	−1.18	0.00	−1.29	3.07	+0.89	6.74	+4.43	3.94	−0.28	8.04	+4.28	1.05	−1.47	0.60	−3.21	2.38	−0.59	2.75	+0.91	1.44	−1.23	1.76	+0.05	§32.51	+ 1.31
Philadelphia	....	......	....	......	....	......	....	......	....	......	....	......	....	......	0.39	−4.02	5.50	+2.24	3.61	+1.59	2.08	−0.71	§3.13	+1.54	......	......
Polo	1.05	......	T.	......	5.58	......	6.86	......	5.66	......	21.05	......	2.08	......	1.82	......	4.44	......	2.88	......	2.19	......	2.49	......	56.10	......
St. Charles	1.94	−0.21	0.27	−1.72	2.94	−0.23	7.72	+3.97	3.44	−0.84	5.05	+1.05	3.39	+0.40	0.71	−3.53	2.55	−1.29	3.64	+0.46	2.74	+0.63	1.00	−0.79	35.39	− 2.10
St. Joseph	0.89	−0.39	0.31	−1.36	4.41	+1.93	5.60	+2.41	3.45	−1.25	11.43	+6.48	1.77	−2.01	0.76	−3.07	1.57	−2.35	4.45	+1.56	2.62	+1.04	2.89	+1.60	40.15	+ 4.59
Salisbury	1.27	......	0.17	......	4.07	......	7.47	......	6.22	......	17.13	......	1.51	......	1.66	......	4.40	......	3.28	......	2.05	......	2.41	......	51.64	......
Saverton, L. No. 22	2.02	+0.11	0.03	−1.44	2.74	−0.42	7.29	+2.60	5.00	−0.41	7.86	+2.14	0.80	−1.58	1.78	−2.68	3.16	−0.39	2.96	−0.47	2.46	−0.69	1.88	+0.01	37.98	− 3.22
Shelbina	1.62	+0.09	0.16	−1.68	3.33	+0.54	5.41	+1.66	5.44	+1.12	12.61	+8.13	1.70	−2.17	0.67	−3.05	6.35	+1.41	3.96	+1.35	2.14	+0.04	2.84	+1.30	46.23	+ 8.74
Shelbyville	1.31	−0.26	0.00	−1.39	2.64	+0.39	6.25	+3.53	4.46	−0.16	12.25	+7.67	2.55	−0.17	0.54	−3.69	6.26	+3.11	3.87	+1.75	2.04	−0.94	2.42	+0.62	44.59	+10.46
Steffenville	1.25	−0.76	0.13	−1.64	2.31	−0.70	5.97	+2.39	6.97	+2.40	10.80	+6.26	0.87	−3.24	0.58	−3.46	5.59	+1.09	4.28	+1.55	2.39	+0.20	2.76	+1.07	43.90	+ 5.16
Tarkio	0.29	−0.45	0.11	−1.17	2.07	+0.40	4.43	+1.19	3.58	−0.96	12.23	+7.27	2.72	−1.43	1.17	−2.73	0.69	−3.55	1.73	−1.08	1.35	−0.39	1.83	+0.87	32.20	− 2.03
Trenton	1.44	+0.10	0.05	−1.53	3.49	+1.04	6.61	+3.03	5.36	+1.78	18.35	+13.31	1.90	−2.17	1.94	−1.94	4.24	−0.51	3.85	+0.72	2.26	+0.14	1.90	+0.49	51.39	+13.34
Troy	0.89	−1.11	0.05	−1.48	3.39	+0.67	8.23	+5.22	3.94	+0.05	5.23	+1.57	1.49	−0.86	0.44	−3.40	2.82	−0.40	4.76	+2.05	4.26	+1.27	1.41	−0.59	36.91	+ 2.99
Unionville	1.04	−0.68	§0.05	−1.72	1.66	−0.84	5.96	+2.26	4.32	−0.93	12.24	+7.05	3.64	−0.48	1.74	−2.54	4.26	−0.83	3.69	+0.56	2.09	−0.11	2.14	+0.43	§42.83	+ 2.17
Vandalia	2.00	......	0.10	......	2.79	......	7.15	......	2.74	......	8.19	......	1.15	......	0.45	......	1.76	......	3.38	......	1.29	......	§1.92	......	§32.92	......
Warrenton	0.45	−1.74	0.18	−1.71	3.73	+0.55	6.06	+2.02	4.10	−0.30	6.96	+3.18	1.87	−1.27	0.08	−3.59	3.73	−0.63	4.06	+0.62	2.79	+0.17	2.00	−0.08	36.01	− 2.78
Keokuk, Iowa	1.40	−0.16	0.21	−1.34	1.87	−0.51	6.35	+3.36	4.51	+0.58	9.31	+5.18	0.30	−3.11	0.71	−2.49	3.13	−0.71	3.11	+0.85	2.19	+0.25	1.79	+0.34	34.88	+ 2.24
Southwestern Division																										
Altona	0.95	−0.88	0.18	−1.24	3 15	+0.57	9.49	+4.61	5.67	+0.29	7.72	+1.80	1.32	−0.96	2.22	− 2.10	6.84	+2.75	3.21	+0.52	1.95	−0.32	§1.45	−0.19	§44.15	+ 4.85
Anderson .. 1½ mi. SW	1.20	−1.33	0.25	−1.53	2.54	−1.16	9.81	+5.12	6.01	+0.26	6.62	+0.69	1.55	−2.86	0.93	−3.19	3.04	−0.84	1.63	−2.26	2.06	−1.29	0.49	−1.86	36.13	−10.25
Appleton City 2 mi W	§0.98	−0.86	0.22	−1.45	4.00	+0.85	6.05	+1.92	4.58	−0.22	8.34	+3.32	2.08	−2.23	2.92	−1.04	5.58	+1.20	3.05	+0.09	1.49	−0.81	2.09	+0.50	§41.38	+ 1.27
Ava Ranger Station	0.63	......	0.59	......	§1.73	......	6.07	......	....	......	....	......	....	......	....	......	....	......	....	......	....	......	....	......	....	......
Bolivar	0.62	−1.31	0.38	−1.72	3.39	−0.04	7.39	+3.22	3.02	−2.33	7.07	+1.76	3.90	+0.18	2.15	−1.71	3.52	−0.69	2.87	−0.38	1.89	−0.69	1.33	−1.01	37.53	− 4.72
Boonville ....(A)	§1.68	−0.04	0.07	−1.71	§4.76	+1.72	7.27	+3.40	4.23	−0.38	7.18	+2.13	2.81	−0.43	2.98	−1.57	4.65	−0.54	3.98	+0.76	1.70	−0.51	1.27	−0.43	§42.58	+ 2.40
Boonville ....(B)	1.60	......	0.04	......	3.52	......	7.97	......	4.04	......	7.26	......	2.87	......	2.91	......	4.30	......	4.44	......	1.93	......	1.45	......	42.33	......
Bradleyville	0.79	......	0.36	......	1.96	......	5.30	......	5.13	......	5.11	......	3.90	......	1.53	......	2.87	......	2.49	......	3.42	......	1.00	......	33.86	......
Buffalo	0.64	−1.47	0.17	−1.59	3.17	−0.26	10.20	+6.53	2.97	−2.23	6.77	+1.75	8.49	+0.53	2.20	−1.92	5.39	+2.04	2.95	+0.13	1.54	−1.86	0.31	−1.76	39.80	+ 0.41
Butler	1.08	......	0.32	......	3.71	......	7.79	......	5.32	......	8.18	......	1.51	......	1.40	......	4.49	......	3.99	......	2.07	......	2.19	......	42.05	......
Camdenton	§0.80	......	*0.80*	......	§3.74	......	8.42	......	3.19	......	10.77	......	0.24	......	2.26	......	3.94	......	4.48	......	1.62	......	1.96	......	§41.72	......
Caplinger Mills	0.41	−1.51	0.14	−1.17	3.70	+0.97	5.44	+1.85	5.18	+0.31	8.04	+1.88	3.43	−0.33	2.00	−2.55	3.09	−0.63	2 83	−1.05	2.02	−0.74	0.41	−1.29	36.69	− 4.26
Carthage	1.00	......	0.49	......	3.33	......	9.42	......	5.67	......	5 90	......	5.61	......	0.57	......	4.16	......	1.81	......	2.17	......	1.60	......	41.73	......
Cassville	0.41	......	0.24	......	1.62	......	5.47	......	5.06	......	6.63	......	1 98	......	1.47	......	3.31	......	1.95	......	2.59	......	0.66	......	31.39	......
Chadwick	1.06	......	0.60	......	2.11	......	8.43	......	6.23	......	4 30	......	5.75	......	2.46	......	2.95	......	1.97	......	3.64	......	0.54	......	40.04	......
Clinton	1.01	−1.02	0.24	−1.71	4.00	+0.64	7.82	+3.65	6.97	+2.14	9.41	+4.51	0.61	−2.82	2.26	−1.39	5 17	+0.65	4 56	+1.11	1.75	−0.41	2.39	+0.52	46.19	+ 5.87
Concordia	2.37	+0.83	0.35	−1.13	5.21	+2.66	6.74	+3.40	4.75	0.00	12.93	+7.45	0.69	−3.30	2.81	−1.04	4.94	+0.44	5.00	+1.20	2.28	+0.06	1.95	+0.18	50.02	+10.75
Crocker	0.78	−1.90	0.31	−1.58	3.46	+1.23	7.40	+3.60	3.68	−0.12	7.20	+4.25	1.22	−2.86	1.08	−2.65	4.90	+0.83	4 40	+2.06	1.54	−0.59	1.49	−0.67	37.46	+ 1.60
Eldon	0 77	−0.99	0.21	−1.61	4.18	+1.14	7.00	+2 84	3 18	−1.12	6.96	+2.92	2 49	−0.73	1.67	−1.99	3.98	−0.64	3 98	+0.28	1.44	−1.01	1.80	+0.04	37.66	− 0.87
Eldorado Springs	1.22	−1.00	0.42	−2.06	4.36	+1.43	6.11	+1.88	3.58	−1.57	7.00	+2.04	3.29	−1.03	2.53	−0.58	2.98	−0.43	3.72	+1.16	1.69	−0.70	1.20	−0.99	38.10	− 1.85
Elijah	1.51	......	0.85	......	§1.75	......	....	......	....	......	....	......	....	......	....	......	....	......	....	......	....	......	1.40	......	......	......
Forsyth	0.83	......	0.39	......	1.58	......	3.99	......	5.94	......	4.61	......	2.79	......	1.95	......	2.74	......	1.90	......	2.91	......	1.05	......	30.68	......
Galena	0.59	−2.08	0.14	−1.80	1.66	−1.68	6.31	+2.19	5.62	+0.48	5.76	+1.00	2.15	−1.61	1.92	−2.18	3.57	+0.09	1.26	−2.22	2.81	−0.49	0.50	−1.67	32 29	− 9.97
Granby	0.42	......	0.32	......	2.40	......	§12.11	......	4.80	......	5.96	......	1.48	......	1.49	......	3.89	......	0.83	......	1.83	......	0.35	......	§35.88	......
Hailey	0.52	−2.40	0.27	−1.53	1.81	−1.67	6.26	+1.87	4.24	−1.00	6.02	+0.42	2.34	−1.35	0.99	−3.95	4.89	+1.12	2.95	−1.35	3.89	+0.78	1.86	−0.46	36.04	− 9.52
Harrisonville	0.89	−0.68	0.16	−1.57	4.28	+1.48	8.07	+4.69	4.53	+0.10	11.44	+6.65	1.41	−2.20	1.65	−2.53	5.94	+1.04	2.30	−0.67	2.01	−0.13	3.69	+2.24	46.37	+ 8.42

Continued on next page

Monthly and Annual Precipitation for the Year 1947, with Departures from Normal—Continued from preceding page

Stations	January		February		March		April		May		June		July		August		September		October		November		December		Annual	
	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure
Southwest Div.-Cont.																										
Jefferson City ...(A)	1.37	−0.61	0.03	−1.73	1.67	−1.39	8.44	+4.46	3.45	−0.96	7.62	+3.39	1.85	−1.26	0.82	−3.01	3.89	−0.34	4.14	+0.77	2.05	−0.34	0.40	−1.54	35.73	− 2.56
Jefferson City ...(B)	1.71	......	0.04	......	2.79	......	8.15	......	3.07	......	6.73	......	2.03	......	1.03	......	3.19	......	3.87	......	1.68	......	1.00	......	35.29	......
Joplin	0.81	−1.35	0.49	−1.19	4.07	+0.87	10.50	+5.80	6.46	+1.10	6.92	+0.92	3.86	−0.76	0.78	−3.19	4.63	+0.71	2.67	−0.78	2.21	−0.56	1.42	−0.47	44.82	+ 1.10
Joplin Airport	0.90	−1.26	0.82	−0.83	3.60	+0.40	8.27	+3.57	5.33	−0.03	7.01	+1.01	3.03	−1.59	1.29	−2.68	4.70	+0.78	2.31	−1.14	2.42	−0.35	1.33	−0.56	41.01	− 2.71
Lakeside	0.72	−1.46	0.09	−1.73	3.58	+0.83	8.73	+5.75	3.33	−0.94	6.03	+1.42	1.49	−0.66	1.09	−2.08	3.78	−0.62	3.75	+0.94	1.73	−1.98	0.56	−1.74	34.88	− 2.27
Lamar	0.78	−1.05	0.31	−1.46	3.56	+0.37	5.95	+1.43	5.25	−0.01	4.97	−0.57	4.31	+0.09	3.04	−1.25	4.08	−0.47	2.06	−1.55	2.14	−0.39	0.30	−1.58	36.75	− 6.44
Lebanon	0.72	−1.92	0.37	−1.82	3.13	−0.35	8.26	+3.91	2.78	−2.43	5.20	+0.03	1.76	−2.20	1.15	−3.34	3.77	−0.72	3.16	−0.61	1.54	−1.10	1.43	−0.85	33.27	−11.40
Lexington	§0.66	−0.86	T.	−1.84	§4.55	+1.77	6.81	+3.01	3.45	−1.51	17.22	+12.67	2.37	−1.64	2.08	−1.44	§4.98	+0.21	*4.00*	+0.97	1.85	−0.27	2.10	+0.51	50.07	+11.58
Lockwood	0.42	−1.44	0.44	−1.29	4.38	+0.82	8.57	+4.04	4.65	−0.67	6.78	+1.10	6.56	+1.80	5.60	+0.90	3.58	−1.20	2.89	−1.01	1.65	−1.19	1.54	−0.60	47.06	+ 1.26
Mansfield	1.36	......	0.35	......	1.51	......	6.20	......	4.33	......	5.64	......	2.00	......	3.75	......	5.52	......	3.37	......	3.81	......	0.82	......	38.66	......
Marshall	1.00	−0.65	0.12	−1.66	2.73	−0.19	6.36	+2.47	5.20	+0.59	12.71	+7.91	1.84	−1.73	1.78	−2.12	3.00	−2.50	3.42	+0.29	1.96	−0.36	2.78	+1.03	42.90	+ 3.08
Marshfield	0.94	......	0.26	......	2.38	......	8.26	......	4.07	......	4.63	......	2.63	......	1.92	......	4.54	......	2.56	......	1.77	......	1.26	......	35.22	......
Monett	0.50	......	0.34	......	1.81	......	9.14	......	4.66	......	6.39	......	2.36	......	1.86	......	5.45	......	3.17	......	1.75	......	0.41	......	37.84	......
Mountain Grove	0.74	−1.99	0.27	−1.96	1.79	−2.08	6.74	+2.22	3.59	−0.87	4.16	−0.78	3.93	+0.04	1.32	−3.02	4.47	+0.41	5.04	+1.58	3.29	+0.34	0.73	−1.68	36.07	− 7.79
Mount Vernon	0.92	−1.79	0.30	−2.30	2.12	−1.77	10.13	+5.68	3.34	−2.17	6.47	+1.21	4.62	−0.57	0.82	−3.66	4.12	+0.28	2.43	−0.95	1.98	−0.96	0.34	−2.20	37.59	− 9.20
Neosho	0.82	−1.65	0.43	−1.56	2.90	−0.65	12.28	+7.72	4.54	−1.02	4.33	−1.64	1.65	−3.00	0.70	−3.67	3.57	−0.72	1.10	−2.59	2.10	−1.20	2.18	−0.10	36.60	−10.08
Nevada	0.56	−1.27	0.47	−1.28	4.02	+1.15	6.69	+2.40	5.10	+0.17	6.27	+0.82	1.45	−2.21	3.58	−0.19	7.96	+3.65	1.49	−1.58	1.77	−0.38	2.05	+0.30	41.41	+ 1.58
Osceola	0.57	−1.56	0.20	−1.52	3.71	+0.52	6.40	+2.02	4.32	−1.15	8.07	+2.84	2.63	−1.23	2.21	−1.86	3.96	−0.85	2.99	−0.17	1.59	−1.19	0.47	−1.66	37.12	− 5.81
Ozark	0.65	......	1.12	......	2.17	......	8.33	......	3.62	......	4.99	......	4.85	......	2.29	......	3.30	......	1.65	......	2.30	......	0.26	......	35.53	......
Ozark Beach	0.62	−2.35	0.56	−1.24	1.80	−1.29	4.24	−0.23	7.00	+1.78	4.66	−1.22	2.09	−1.30	2.36	−1.97	3.56	+0.37	2.18	−1.69	2.95	+0.18	0.96	−1.79	32.98	−10.75
Pierce City	0.69	......	0.46	......	2.79	......	9.68	......	4.67	......	6.83	......	2.52	......	0.67	......	4.92	......	3.18	......	2.45	......	1.80	......	40.66	......
Pineview Lookout	0.56	......	0.15	......	§2.40	......	5.22	......	....	......	....	......	....	......	....	......	....	......	....	......	....	......	....	......	......	......
Pleasant Hill	1.18	−0.52	0.06	−1.41	5.20	+1.86	9.99	+4.16	5.27	−0.82	11.77	+5.02	1.47	−1.29	3.17	−0.81	5.84	+1.59	4.24	+0.41	1.90	−0.26	2.37	+0.32	52.46	+ 8.25
Roby	1.11	......	0.39	......	2.89	......	7.47	......	3.19	......	6.20	......	2.45	......	2.04	......	4.19	......	6.44	......	2.27	......	2.53	......	41.17	......
St. Thomas. 2¼ mi. SW	§0.73	−1.75	§0.07	−1.26	§3.71	+1.20	§6.99	+3.83	3.60	−0.78	§6.98	+1.66	1.64	−0.70	§1.72	−1.97	§3.29	−1.57	4.07	+0.18	1.75	−1.45	0.82	−1.49	§35.37	− 4.10
Sedalia	0.80	−1.45	0.19	−1.95	3.63	+0.80	7.44	+3.71	4.22	−0.32	10.89	+5.61	0.53	−3.91	2.11	−3.07	4.61	−0.29	6.69	+4.01	1.71	+0.09	2.22	+0.94	45.04	+ 4.17
Seligman	§0.55	−2.24	0.35	−1.49	2.21	−1.39	4.88	+0.82	5.21	−0.23	3.78	−1.17	0.81	−3.31	0.93	−3.07	3.81	+0.13	1.40	−2.06	2.47	−0.62	0.67	−1.53	§27.07	−16.16
Seymour ..3½ mi. NE	0.62	−1.97	0.43	−1.75	1.94	−1.72	8.31	+3.99	5.04	+0.21	7.03	+1.69	2.40	−1.54	1.79	−2.45	3.29	−0.73	1.70	−1.78	4.18	+1.29	0.39	−1.87	37.12	− 6.63
Shell Knob ..3 mi. SE	§0.66	......	0.20	......	1.72	......	5.00	......	5.10	......	4.28	......	1.03	......	1.33	......	5.13	......	0.99	......	2.21	......	0.76	......	§28.41	......
Siloam Spgs. Lookout	1.73	......	0.76	......	§1.16	......	5.66	......	3.33	......	3.06	......	2.43	......	0.76	......	5.81	......	1.49	......	5.02	......	1.64	......	§32.85	......
Springfield..4 mi NW	0.52	−1.82	0.35	−2.00	2.65	−0.74	7.38	+3.52	4.40	−0.79	6.75	+2.07	5.41	+1.20	0.88	−3.21	4.69	+1.17	3.24	+0.19	1.68	−1.11	1.67	−0.64	39.62	− 2.16
Stover	0.49	−1.19	0.10	−1.33	§4.39	+1.76	6.00	+2.18	4.02	−0.79	8.43	+3.08	1.17	−2.18	0.86	−3.06	4.06	−0.01	3.10	−0.92	1.66	−1.12	0.82	−1.32	§35.10	− 4.90
Sugar Camp Lookout	§0.55	......	§0.41	......	§2.55	......	4.03	......	....	......	....	......	....	......	....	......	....	......	....	......	....	......	....	......	......	......
Sweet Springs	1.15	......	0.21	......	4.09	......	6.54	......	4.31	......	12.44	......	1.63	......	2.40	......	4.30	......	4.32	......	2.56	......	2.54	......	46.49	......
Tecumseh...¼ mile W	§1.99	......	0.32	......	*1.58*	......	*8.80*	......	*3.33*	......	*2.94*	......	*1.87*	......	*1.60*	......	5.41	......	1.92	......	3.32	......	2.02	......	§35.10	......
Topaz	1.69	......	§0.54	......	1.61	......	6.38	......	4.01	......	5.53	......	2.63	......	2.43	......	5.03	......	1.81	......	3.21	......	1.31	......	§36.18	......
Vanzant ..3¾ mi. SE	1.11	......	0.49	......	1.81	......	6.15	......	3.79	......	4.93	......	2.99	......	0.50	......	5.39	......	3.30	......	3.38	......	0.51	......	34.35	......
Waco	*0.74*	......	*0.39*	......	3.57	......	§6.77	......	7.44	......	4.74	......	3.47	......	1.40	......	4.49	......	1.42	......	2.07	......	0.30	......	§36.80	......
Warrensburg	0.92	−0 86	0.23	−1 65	4 60	+1.51	7.14	+3.48	5.18	+0.46	10.10	+5.04	0.79	−3.18	1.71	−2.26	4.56	−0.22	5.14	+2.12	2.15	−0.07	1.99	+0.45	44.51	+ 4.82
Warsaw ....(A)	0.82	−1.32	0.16	−2.08	3.51	−0.04	6.92	+2.46	5.16	+0.16	9.33	+4.03	1.97	−2.04	2.06	−2.56	3.64	−1.39	5.18	+1.38	1.93	−0.71	1.32	−0.80	42.00	− 2.91
Warsaw ....(B)	0.69	......	0.10	......	3.22	......	6.94	......	§4.80	......	§7.37	......	1.82	......	1.91	......	3.88	......	5.05	......	1.43	......	0.57	......	§37.78	......
Wasola	1.11	......	0.65	......	1.42	......	4.78	......	3.56	......	3.06	......	2.38	......	2.48	......	3.04	......	2.88	......	3.60	......	1.30	......	30.26	......
Waverly	0.55	−0.99	T.	−1.66	4.68	+1.92	7.96	+4.25	4.67	+0.06	8.42	+3.46	2.51	−1.87	0.79	−2.90	5.16	−0.18	§3.52	+0.22	2.22	−0.06	2.45	+0.87	§42.93	+ 3.12
Waynesville	*0.75*	......	*0.43*	......	....	......	....	......	....	......	....	......	....	......	....	......	....	......	....	......	1.26	......	0.18	......	......	......
Weaubleau	....	......	....	......	....	......	....	......	....	......	....	......	....	......	....	......	....	......	....	......	§1.72	......	0.48	......	......	......
Westphalia	§1.20	......	....	......	....	......	....	......	....	......	....	......	1.76	......	....	......	....	......	....	......	....	......	....	......	......	......
Wilderness Lookout	0.77	......	0.25	......	1.32	......	5.03	......	5.18	......	5.54	......	1.12	......	1.58	......	4.28	......	1.76	......	3.13	......	0.90	......	30.86	......
Southeastern Division																										
Advance ...¼ mile W	1.12	−2.57	0.46	−3.30	2.23	−2.71	5.49	+0.32	5.40	+1.13	6.13	+1.83	0.73	−2.63	1.85	−1.96	2.16	−0.48	6.20	+3.59	2.86	−0.42	4.98	+2.08	39.61	− 5.12
Alton.......10 mi. SE	2.14	......	0.47	......	1.35	......	5.10	....	3.46	......	2.85	......	1.00	......	2.94	......	1.82	......	2.96	......	3.74	......	6.12	......	33.95	......
Annapolis... 7 mi. W	2.13	......	0.22	......	2.29	......	8.78	......	2.24	......	7.52	......	1.58	......	3.70	......	3.36	......	4.34	......	4.92	......	1.73	......	42.81	......
Arcadia	1.94	−1.05	0.20	−2.28	2.61	−1.44	9.58	+4.76	4.40	+0.16	7.20	+3.06	3.07	−1.05	2.00	−2.37	2.69	−1.29	3.44	−0.01	4.60	+1.48	1.03	−1.82	42.76	− 1.85
Belleview	1.77	−0.53	0.22	−2.61	2.34	−1.45	8.43	+3.41	4.21	−0.90	4.58	−0.02	2.84	−0.49	3.27	+0.50	2.93	−1.11	3.25	−0.25	3.31	−0.12	0.85	−1.96	38.00	− 5.53
Bernie	2.22	......	0.10	......	2.23	......	7.32	......	6.58	......	4.79	......	2.00	......	2.30	......	3.55	......	5.07	......	5.21	......	3.04	......	44.41	......
Birch Tree... ½ mi. E	1.52	−1.66	0.53	−1.97	1.61	−2.37	§5.87	+1.11	2.39	−1.96	1.72	−2.69	1.97	−1.61	2.73	−2 03	3.54	−0.14	2.94	−0.34	4.03	+0.87	1.79	−0 96	§30.64	−13.75
Black.... ...9 mi NW	2.27	−0.43	0.31	−1.97	2.04	−1.85	8.04	+3.15	3.71	−0.80	6.47	+2.41	2.93	−0.76	3 49	−0.75	2.78	−1.08	4.85	+1.26	3.18	+0.46	0.83	−1.62	40.90	− 1.98
Bloomfield	2.90	......	0.26	......	2.04	......	5.10	......	4.67	......	7.54	......	0.96	......	1.52	......	5.25	......	5.25	......	4.10	......	2.23	......	41.82	......
Bunker .... 4 mi. NW	2.55	......	§0.44	......	§2.20	......	5.25	......	3.07	......	3.95	......	3.55	......	4.75	......	3.95	......	3.78	......	4.55	......	0.49	......	§38.53	......
Campbell	2.56	−2.74	0.22	−3.11	1.61	−4.31	5.87	+1.61	4.89	−0.12	5.82	+1.58	1.08	−2.40	1.49	−4.49	3.43	−0.44	4.80	+1.70	3.76	+0.06	4.04	+0.09	39.57	−12.57
Cape Girardeau..(A)	2.20	−1.78	0.22	−2.18	2.41	−1.43	6.41	+2.53	5.17	+1.10	4.89	+0.59	1.52	−1.90	3.28	−0 62	3.36	−0.65	5.77	+2.47	3.21	−0.37	4.00	+0.33	42.44	− 1.91
Cape Girardeau..(B)	1.77	−2.21	0.42	−1.98	2.12	−1.72	6.55	+2.67	4.71	+0.64	6.31	+2.01	1.36	−2.06	1.97	−1.93	5.75	+1.74	6.14	+2.84	3.05	−0.53	2.68	−0.99	42.83	− 1.52
Caruthersville	3.00	−2.19	0.61	−2.77	2.16	−2.30	6.00	+1.48	5.01	+0.57	4.23	+0.42	2 44	−0.85	0.74	−2.95	0.94	−2.27	4.87	+1.51	5.92	+2.07	3.10	−1.44	39.02	− 8.72
Centerville (1)	1.89	−0.76	0.22	−2.98	2.67	−1.07	9.43	+4.21	4.08	−0.28	7.31	+2.12	2.11	−0.19	2.36	−0.09	3.00	−0.63	3.72	+0.02	3.40	−0.04	1.29	−1.49	41.48	− 1.17
Centerville (2)	1.97	......	0.30	......	2.41	......	8.82	......	4.42	......	6.57	......	2.06	......	2.63	......	2.53	......	3.59	......	3.89	......	1.24	......	40.43	......
Clearwater Dam	2.27	......	0.40	......	2.00	......	5.91	......	2.93	......	4.32	......	0.99	......	2.92	......	3.72	......	5.02	......	3.77	......	1.93	......	36.18	......
Cook Station	0.89	......	§0.16	......	2.37	......	8.78	......	3.93	......	6.88	......	2.00	......	1.22	......	2.33	......	5.99	......	2.55	......	0.55	......	§37.65	......
Crane Mountain	1.95	......	0.21	......	2.29	......	7.71	......	3.21	......	6.23	......	2 65	......	2.29	......	2.86	......	4.11	......	4.72	......	1.40	......	39.63	......
Crystal City	2.04	−0.25	0.26	−1.61	2.53	−0.15	6.17	+2.53	3.84	−0.32	5.32	−0.10	3.91	+0.70	3.57	+1.14	1.96	−1.42	3.85	+1.08	2.23	−1.19	2.20	−0.34	37.88	+ 0.07
Cuba	0 96	−1.29	0 38	−2.15	2.72	−0.71	7.31	+2.36	3.63	−0.96	6.22	+1.20	3.27	+0.97	0.70	−2.30	5.00	+1.27	6.01	+3.27	2.67	−0.36	1.56	−0.47	40.43	+ 0.83
Deering	2.98	......	0.44	......	2.16	......	6.66	......	4.83	......	4.66	......	1.05	......	0.92	......	1.46	......	6.59	......	4.61	......	3.63	......	39.99	......
De Soto	3.38	......	0.27	......	2.65	......	6.74	......	3.76	......	6.11	......	4.51	......	3.55	......	2.44	......	6.38	......	2.61	......	1.99	......	44.39	......
Dexter	2.35	−2.69	0.33	−2.75	2.47	−2.41	5.32	+0.73	4.40	−0.39	5.95	+1.54	2.66	−0.46	2.29	−1.83	4.63	+0.11	4.55	+0.29	5.13	+1.21	2.77	−1.22	42.85	− 7.87
Doniphan (1)	1.04	−3.06	0 37	−2.94	1.12	−3 27	3.22	−1.71	4.35	−0.01	5.69	+1.33	1.69	−2.35	3.87	−0.37	2.98	−0.63	5.47	+2.41	3.56	+0.14	2.89	−0.83	36.25	−11.29
Doniphan (2)	1.57	......	0.46	......	1.71	......	5.09	......	4.00	......	5.48	......	0.95	......	2.93	......	2.75	......	6.20	......	3.24	......	2.86	......	37.24	......
East End	1.63	......	§0.20	......	§1.90	......	§7.71	......	4.60	......	4.46	......	2.04	......	3.29	... ..	2.36	......	5.44	......	§2.97	......	1.10	......	§37.70	......
Eastwood Lookout	§2.19	......	....	......	....	......	8.88	......	7.28	......	8.12	......	2.46	......	5.15	......	....	......	....	......	....	......	....	......	......	......
Ellington	1.54	......	0 20	......	1.83	......	7.49	......	2.53	......	6.75	......	0.85	......	6.33	......	5.17	......	5.11	......	4.86	......	1.55	......	44.21	......
Ellsinore Lookout	1.94	......	0.38	......	2.04	......	4.32	......	3.42	......	5.63	......	1.80	......	4.99	......	*4.24*	......	*4.71*	......	*3.70*	......	4.09	......	§41.26	......
Farmington	2.29	−0.85	0.22	−2.30	§2.10	−1.82	8.63	+4.11	5.23	+0.16	5.85	+1.97	2.43	−1.13	2.50	−1.80	3.05	−0.75	4.23	+0.79	3.40	+0.58	0.94	−1.86	§40.87	− 2.90
Fisk	2.04	−2.97	0.29	−2.97	2.30	−2.52	5.23	+1.53	3.23	−0.27	5.70	+1.84	3.01	−0.37	1.19	−2.06	3.20	−1.04	4.45	+1.49	3.60	+0.94	2.94	−0.53	37.18	− 6.93
Fredericktown	2.59	−1.12	0.25	−2.38	2.30	−1.35	8.99	+4.51	2.13	−1.96	6.29	+2.06	2.96	−0.26	1.45	−2.81	4.44	+0.48	4.25	−0.14	3.67	+0.35	1.42	−1.75	40.74	− 4.37
Gerald	0.95	......	0.38	......	2.75	......	6.91	......	3.48	......	5.93	......	2.70	......	0.46	......	3.00	......	5.15	......	2.59	......	2.07	......	36.37	......
Greenville (1)	1.94	−1.38	§0.43	−2.29	§1.94	−2.32	4.61	−0.09	4.35	+0.17	8.69	+4.00	2.93	−0.83	3.83	−0.45	3.52	+0.20	5.58	+2.30	3.77	+0.41	2.40	−0.96	§43.99	− 1.24
Greenville (2)	2.31	......	0.45	......	1.99	......	5.00	......	5.39	......	6.55	......	2.93	......	3.83	......	....	......	....	......	....	......	....	......	......	......
High Lookout	*1.48*	......	0.68	......	1.68	......	4.94	......	2.65	......	4.56	......	2.31	......	2.73	......	4.48	......	2.19	......	3 65	......	3.96	......	§35.31	......
Jackson	1.84	−2.10	0.30	−2.58	2.74	−1.43	6.25	+1.91	3.62	−0.65	5.86	+1.17	2.13	−1.41	2.70	−1.38	3.59	−0.43	4.41	+0.89	2.97	−0.41	4.17	+0.74	40.58	− 5.68
Jerome	§0.93	−1.05	0.20	−2.12	3.24	+0.39	7.08	+3.25	2.26	−2.05	6.72	+2.97	1.33	−1.97	2.12	−2.16	3.88	+0.29	5.39	+3.37	2.23	−0.24	§0.24	−1.59	§35.62	− 0.91
Koshkonong	3.08	−0.54	0.83	−2.03	1 61	−2.49	5.24	+0.22	4.23	−0.32	2.28	−2.22	2.63	−1.14	0.46	−3.70	1.37	−2.27	2.51	−0.71	4.15	+0.89	2.71	−0.77	31.10	−15.08
Leeper	2.19	−1.71	0.43	−2.22	2.17	−1.47	4.92	0.00	3.36	−1.04	4.21	−1.23	1.36	−1.96	3.81	−0.30	3.95	+0.72	4.49	+0.58	3.81	+0.43	1.58	−2.20	36.28	−10.40
Licking	0 80	−1.17	0.18	−2.23	2.42	−0.71	8.86	+4.18	2.58	−2.55	3.49	−1.07	0.89	−1.68	1.93	−0.41	4.04	−0.50	5.32	+2.01	3.09	+0.45	0.39	−1.99	33.99	− 5.67
Macedonia Lookout	2.34	......	0.48	......	1.50	......	4.40	......	3.06	......	4.70	......	1.22	......	3.27	......	3.16	......	3.98	......	3.15	......	2.43	......	33.69	......
Marble Hill	1.85	−2.02	0.56	−2.52	2.09	−2.19	4.74	+0.25	3.62	−0.87	6.09	+1.61	2.93	−1.09	4.11	−0.01	2.93	−0.95	5.69	+2.27	3.08	−0.47	2.31	−1.36	40.00	− 7.35
Morehouse	2.44	−2.47	0.36	−3.38	2.00	−2.91	5.48	+0.63	4.44	+0.16	5.89	+1.66	1.00	−2.01	1.00	−2.91	4.05	+0.13	4.86	+1.33	4.00	+0.37	3.44	−0.78	38.96	−10.18
Moselle	....	......	....	......	....	......	....	......	....	......	....	......	....	......	....	......	....	......	§6.17	......	1.85	......	0.32	......	......	......
New Madrid	3.03	−2.46	0.34	−3.41	1.95	−2.88	7.16	+2.58	5.63	+1.20	3.42	−1.08	1.64	−2.33	1.43	−2.67	1.93	−1.66	4.03	+0.26	4.42	+0.39	3.27	−2.07	38.25	−13.40
Oates Tower	1.21	......	0.28	......	1.44	......	6.89	......	3.85	......	5.45	......	1.97	......	2.45	......	3.00	.. ...	4.38	......	3.40	......	0.86	......	35.18	......

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Monthly and Annual Mean Temperatures for the Year 1947, with Departures from Normal

Stations	January		February		March		April		May		June		July		August		September		October		November		December		Annual	
	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure
Northern Division																										
Albany	29.0[a]	.....	25.2[b]	.....	35.4[b]	.....	51.8[b]	.....	58.6[b]	.....	69.4	.....	74.4	.....	82.3	.....	70.4	.....	63.5	.....	36.8	.....	34.6	.....	52.6	.....
Amity	30.4	.....	26.2	.....	34.8	.....	52.2	.....	59.4	.....	70.3	.....	74.8	.....	82.6	.....	71.4	.....	63.7	.....	37.5	.....	34.5	.....	53.2	.....
Bethany	29.2	+ 4.4	24.8	− 2.7	34.3	− 6.0	50.9	− 0.6	58.2	− 4.3	70.1	− 1.9	74.1	− 2.2	82.8	+ 7.8	70.6	+ 3.5	63.2	+ 8.4	37.1	− 5.7	33.8	+ 3.7	52.4	+ 0.3
Brookfield	29.6	.....	25.4	.....	34.2	.....	52.4	.....	60.4	.....	70.8	.....	76.0	.....	85.3	.....	72.0	.....	65.1	.....	~~35.4~~ 32.0	.....	34.5	.....	53.4	.....
Brunswick	30.4	+ 3.7	25.2	− 4.6	34.6	− 7.3	52.2	− 2.0	59.6	− 4.6	70.8	− 2.2	75.3	− 0.8	84.0	+ 9.8	71.2	+ 4.2	64.4	+ 9.1	38.4	− 3.2	34.8	+ 4.2	53.4	+ 0.5
Canton, Lock & Dam 20	31.4	+ 4.0	26.5	− 4.6	35.1	− 6.9	52.2	− 0.7	60.5	− 2.1	70.7	− 1 9	75.6	− 1.4	84.5	+ 8.2	72.2	+ 3.6	63.8	+ 5.0	38.8	− 3.9	34.4	+ 2.7	53.8	+ 0.2
Carrollton	30.9	.....	27.0	.....	35.8	.....	53.6	.....	61.1	.....	72.6	.....	75.1	.....	82.8	.....	70.9	.....	63.5	.....	39.1	.....	35.8	.....	54.0	.....
Chillicothe....2 mi. ESE(C)	29.7	+ 5.3	24.9	− 7.4	33.4	− 8.3	51.2	− 0.8	58.4	− 4.5	70.2	− 2.1	74.6	− 2.4	82.9	+ 7.4	70.2	+ 2.7	63.4	+ 8.4	37.1	− 4.2	34.4	+ 4.5	52.5	− 0.1
Columbia	34.4	+ 3.5	28.3	− 4.1	36.4	− 6.5	54.0	− 0.8	62.0	− 3.0	72.8	− 0.6	75.4	− 1.8	85.0	+ 8.7	72.8	+ 3.4	66.2	+ 9.3	41.0	− 3.1	38.4	+ 4.4	55.6	+ 0.8
Columbia...... 9 mi. WNW	33.0	.....	28.4	.....	35.4	.....	54.2	.....	61.6	.....	71.9	.....	74.1	.....	83.0	.....	72.0	.....	64.2	.....	39.4	.....	36.7	.....	54.5	.....
Conception	30.0	+ 5.3	25.2	− 3.0	34.8	− 5.0	51.6	− 0.6	59.4§	− 2.7	69.7	− 1.8	76.0	− 0.6	83.4	+ 8.7	71.4	+ 4.2	64.0	+ 8.6	36.6	− 4.8	33.6	+ 4.4	53.0§	+ 1.1
Edgerton	*31.4*	+ 4.5	*26.8*	− 7.5	*35.8*	− 7.4	51.7	− 2.1	58.7§	− 4.3	70.4	− 1.5	74.1	− 2.0	83.0	+ 7.9	71.6	+ 3.7	63.4	+ 7.1	37.5	− 4.3	33.8	+ 3.4	53.2§	− 0.2
Elsberry	32.2	+ 0.6	25.8	− 8.0	35.2	− 8.3	53.0	− 0.6	61.0	− 3.7	71.3	− 3.1	73.4	− 6.0	81.6	+ 5.1	69.4	+ 0.1	62.8	+ 5.3	37.9§	− 5.5	34.2	− 0.2	53.2§	− 2.0
Fayette	32.5	+ 5.5	27.4	− 3.2	35.4	− 6.5	53.4	− 0.8	60.8	− 3.0	72.0	− 0.8	74.0	− 3.2	82.8	+ 6.9	71.8	+ 3.7	64.3	+ 7.9	39.3	− 2.9	36.6	+ 5.5	54.2	+ 0.8
Fulton	33.0	+ 3.5	27.2	− 5 9	35.0	− 9.1	53.1	− 1.5	61.7	− 2.9	71.2	− 2.0	73.6	− 4.1	82.3	+ 5.9	71.2	+ 2.3	63.6	+ 6.2	39.4	− 4.8	36.6	+ 3.1	54.0	− 0.8
Grant City	30.3	+ 5.5	23.2	− 5.4	34.0	− 7.3	50.6[a]	− 1.6	58.3	− 3.7	68.8	− 2.0	74.2§	− 2.0	83.0	+ 8.1	70.7	+ 3.7	63.4	+ 8.3	35.8	− 6.1	32.4	+ 4.4	52.1§	+ 0.2
Hannibal	31.4	+ 4.3	25.4	− 4.3	34.0	− 6.4	52.1	− 1.3	59.2	− 4.4	70.2	− 2.3	74.0	− 2.8	83.4	+ 8.4	70.7	+ 3.0	64.0	+ 8.0	37.6	− 4.5	33.8	+ 2.3	53.0	0.0
Kansas City Airport	33.2	+ 5.0	28.9	− 2.3	37.6	− 5.1	54.0	− 0.8	61.9	− 2.9	73.4	− 1.0	78.8	+ 0.7	86.2	+ 9.6	73.8	+ 4.9	68.0	+10.3	40.0	− 3.7	37.2	+ 4.7	56.1	+ 1.7
Kansas City University	33.5	+ 1.7	30.4	− 5.2	37.6	− 8.4	55.0	− 1.6	61.9	− 3.1	73.4	− 1.0	77.6	− 1.9	85.2	+ 6.6	73.7	+ 3.2	66.6	+ 5.4	40.7	− 4.1	37.8	+ 3.0	56.1	− 0.5
Kidder	30.6	+ 4.6	25.8	− 2.6	34.3	− 6.5	51.4	− 0.8	59.2§	− 3.4	70.6	− 1.2	74.5	− 2.1	82.3§	+ 6.9	70.4	+ 3.1	63.2	+ 7.4	37.2	− 4.6	34.0	+ 4.8	52.8§	+ 0.5
Kirksville	30.1	+ 5.3	25.0	− 2.1	34.8[a]	− 4.9	52.0	+ 0.1	59.4	− 2.9	69.8§	− 1.9	74.3	− 1.7	82.6§	+ 8.6	70.8	+ 4.5	63.4	+ 8.7	36.8	− 3.8	33.7	+ 4.1	52.7§	+ 1.1
Kirksville Airport	28.8	.....	23.0	.....	32.2	.....	50.4	.....	56.8	.....	68.6	.....	73.2	.....	82.2	.....	69.0	.....	62.4	.....	35.8	.....	32.8	.....	51.3	.....
Lathrop	*30.5*	.....	*26.0*	.....	*34.7*	.....	52.0	.....	59.6	.....	70.9	.....	74.8	.....	82.8	.....	71.5	.....	64 9	.....	37.8	.....	35.6	.....	53.4§	.....
Louisiana	32.8	+ 4.7	28.0	− 2.9	36.2	− 7.3	54.2	+ 0.2	61.2	− 2.5	71.8	− 0.3	73.4[d]	− 3.0	83.1	+ 8.2	71.1	+ 3.1	63.5	+ 7.3	39.9	− 4.2	36.6	+ 4.8	54.3	+ 0.7
Macon	29.4	+ 1.9	24.0	− 5.6	32.8	− 9.4	51.0	− 2.1	58.6	− 4.9	69.8	− 2.6	73.9	− 3.3	82.4	+ 6.3	69.4	+ 1.5	62.9	+ 6.6	36.4§	− 6.4	32.8	+ 2.7	52.0§	− 1.2
Maryville	28.7	+ 5.8	24.1	− 1.7	35.0	− 2.9	50.8	0.0	58.5	− 2.8	68.6	− 1.2	73.4	− 2.3	80.5	+ 6.7	68.8	+ 3.2	61.9	+ 8.4	35.2	− 4.2	31.4	+ 4.6	51.4	+ 1.1
Memphis	28.6	.....	21.3	.....	32.6	.....	49.4	.....	56.8	.....	68.4	.....	74.3	.....	83.0	.....	69.6	.....	62.6	.....	35.4	.....	31.6	.....	51.1	.....
Mexico	31.0	+ 3.0	25.2	− 4.9	33.9	− 8.1	51.7	− 2.1	59.6	− 4.4	70.4	− 2.8	73.2	− 4.1	83.0	+ 7.0	71.1	+ 2.6	64.2	+ 7.9	37.8	− 5.1	34.0	+ 2.2	52.9	− 0.8
Moberly..........3½ mi. NE	*31.4*	+ 3.4	*26.2*	− 6.7	33.2	−10.4	51.4	− 2.3	60.2	− 3.8	70.2	− 2.7	73.8	− 3.8	83.4	+ 7.7	71.0	+ 3.9	63.9	+ 7.2	37.4	− 4.5	*35.2*	+ 3.7	53.1§	− 0.7
New Florence.... 1 mile SE	33.0	.....	25.8	.....	33.9	.....	52.8	.....	59.9	.....	70.8	.....	72.8	.....	82.4	.....	70.4	.....	64.1	.....	38.7	.....	36.0	.....	53.4	.....
Oregon	30.8	+ 6.7	27.0	− 1.8	36.3	− 3.3	52.2	− 0.5	60.1	− 3.1	70.7	− 1.5	75.6	0.0	82.9	+ 7.7	72.0	+ 4.9	64.2	+ 9.1	36.6	− 3.9	32.8	+ 4.1	53.4	+ 1.5
Polo	29.6	.....	25.0	.....	33.6	.....	51.4	.....	59.2§	.....	70.3	.....	74.6	.....	83.0	.....	70.8	.....	63.7	.....	36.8	.....	33.5	.....	52.6§	.....
St. Charles	....	.....	....	.....	....	.....	....	.....	....	.....	....	.....	....	.....	84.6	+ 7.8	73.0	+ 4.7	65.0	+ 6.8	41.0	− 4.3	38.6	+ 3.7	....	.....
St. Joseph	31.6	+ 6.1	26.7	− 2.9	36.4	− 4.1	53.0	− 0.5	60.2	− 4.0	71.6	− 2.1	76.9	− 0.5	84.4	+ 7.9	72.0	+ 3.6	64.6	+ 8.6	38.0	− 3.5	34.4	+ 4.8	54.2	+ 1.2
Salisbury	32.6	.....	27.4	.....	35.9	.....	53.3	.....	61.2	.....	72.6	.....	75.2	.....	83.6	.....	71.8	.....	64.6	.....	39.2	.....	36.0	.....	54.4	.....
Saverton, Lock & Dam 22	32.6	.....	27.8	.....	35.8	.....	54.2	.....	62.0	.....	72.0	.....	75.3	.....	83.4	.....	71.2§	.....	63.8§	.....	39.6	.....	36.2	.....	54.5§	.....
Shelbina	33.0	.....	25.6	.....	34.4	.....	52.4	.....	59.6	.....	70.9	.....	74.6	.....	83.4	.....	71.4	.....	63.7	.....	38.6[a]	.....	~~35.9~~ 35.6	.....	53.6	.....
Steffenville	30.8	+ 3.4	25.4	− 4.3	34.4	− 7.8	52.0	− 1.1	59.2	− 4.6	70.2	− 2.4	74.2	− 3.6	84.2	+ 7.7	71.6	+ 2.6	63.3	+ 5.9	38.0	− 5.5	34.6	+ 4.0	53.2	− 0.4
Tarkio	27.8	+ 4.9	24.3	− 4.7	34.6	− 5.5	50.2	− 2.0	57.6	− 5.0	69.2	− 2.6	73.9	− 2.9	81.4	+ 6.2	69.0	+ 2.7	62.6	+ 7.8	35.8	− 4.3	31.3	+ 4.9	51.5	0.0
Trenton	30.8	+ 4.5	26.2	− 3.2	35.6	− 5.5	54.1	+ 1.4	60.4	− 3.1	70.4	− 1.8	76.2	− 0.6	83.8	+ 8.6	72.3	+ 5.1	64.4	+ 8.5	38.6	− 3.6	36.2	+ 6.6	54.1	+ 1.4
Unionville	27.3	+ 3.8	20.6	− 6.1	31.4	− 7.5	49.4	− 1.6	56.6	− 5.5	67.8	− 3.5	73.2	− 3.3	81.4	+ 6.6	68.5	+ 1.4	60.8	+ 5.6	34.0	− 6.3	30.6	+ 3.0	50.1	− 1.1
Vandalia	32.0	.....	26.8	.....	34.7	.....	53.0	.....	60.2	.....	70.4[g]	.....	72.7	.....	82.4	.....	70.6	.....	63.7	.....	39.3	.....	33.2[h]	.....	53.2	.....
Warrenton	34.8	+ 5.6	28.2	− 2.7	36.0	− 6.5	54.6	− 0.2	62.3	− 2.6	71.8[b]	− 1.6	73.4	− 4.4	82.9	+ 6.4	71.3	+ 2.3	64.6	+ 8.6	39.6	− 3.6	37.8	+ 5.4	54.8	+ 0.6
Keokuk, Iowa	31.3	+ 6.4	24.1	− 4.2	36.2	− 2.7	51.0	− 1.3	58.8	− 5.0	69.0	− 3.5	75.8	− 1.1	84.8	+ 9.8	70.3	+ 2.8	65.0	+ 9.6	37.0	− 4.1	35.1	+ 5.5	53.2	+ 1.0
Division means	**31.0**	**+ 4.4**	**25.7**	**− 4.2**	**34.8**	**− 6.6**	**52.2**	**− 1.0**	**59.7**	**− 3.7**	**70.6**	**− 1.9**	**74.6**	**− 2.3**	**83.2**	**+ 7.6**	**71.0**	**+ 3.3**	**63.9**	**+ 7.7**	**37.8**	**− 4.4**	**34.7**	**+ 4.0**	**53.3**	**+ 0.2**
Southwestern Division																										
Anderson......1½ miles SW	36.5	+ 0.6	29.4	− 6.3	39.0	− 9.8	56.2	− 0.5	61.4	− 4.3	72.2	− 0.5	72.6	− 4.7	80.6	+ 2.9	70.4[a]	− 0.6	64.0	+ 5.3	41.8[b]	− 7.5	38.2	+ 0.7	55.2	− 2.0
Appleton City	34.6	+ 3.3	29.6	− 4.3	37.9	− 7.2	55.1	− 1.0	62.5	− 2.5	73.3	− 1.1	75.2	− 3.0	83.0	+ 5.2	72.8	+ 2.4	67.0	+ 8.1	42.2	− 3.8	38.8	+ 4.2	56.0	0.0
Bolivar	36.8	+ 2.9	31.1	− 4.1	38.6	− 7.7	57.3	+ 1.0	64.2[b]	− 0.6	74.2	+ 1.4	75.4	− 1.9	83.9	+ 7.0	74.3	+ 4.4	67.8	+ 9.2	43.3	− 3.5	40.5	+ 4.9	57.3	+ 1.1
Boonville	31.7	+ 2.6	25.5	− 6.6	34.1	− 9.2	52.8	− 1.1	60.8	− 2.6	71.2	− 1.4	74.7	− 2.7	82.0	+ 5.8	70.0	+ 1.7	64.8	+ 5.4	38.4	− 4.1	35.1	+ 2.8	53.4	− 0.8
Butler	34.8	.....	29.0[b]	.....	39.0	.....	55.8	.....	61.8	.....	73.7	.....	74.9[a]	.....	83.2[f]	.....	72.3[f]	.....	65.8	.....	42.2	.....	38.6	.....	55.9	.....
Camdenton	37.8[a]	.....	32.0[a]	.....	39.2[a]	.....	58.4	.....	64.8[d]	.....	74.0	.....	76.2	.....	85.3	.....	74.2	.....	67.1	.....	43.7	.....	41.6	.....	57.9	.....
Carthage	38.0	.....	33.0	.....	40.9	.....	57.9	.....	64.4	.....	74.3	.....	76.6	.....	84.0	.....	74.6	.....	67.5	.....	44.4	.....	41.0	.....	58.0	.....
Clinton	34.1	+ 2.4	28.9	− 4.7	37.2	− 7.8	55.6	− 0.7	61.4	− 4.1	73.5	− 0.3	76.8	− 1.5	84.7	+ 7.1	73.0	+ 2.2	66.6	+ 7.7	41.4	− 5.6	38.4	+ 3.7	56.0	− 0.3
Eldon	37.2	+ 6.1	30.2	− 2.9	38.3[a]	− 5.3	57.0	+ 1.6	64.2	0.0	72.8	− 0.2	74.5[a]	− 2.7	83.8[b]	+ 7.4	72.4	+ 3.0	65.6	+ 8.4	41.6[c]	− 3.2	39.4	+ 5.1	56.4	+ 1.4
Harrisonville	31.8	+ 4.5	27.0	− 3.7	35.8	− 5 5	53.6	− 0.3	61.0	− 2.8	71.8	− 1.3	76.2	− 1.5	84.2	+ 8.3	72.6	+ 4.1	66.2	+10.1	39.6	− 2.9	36.1	+ 4.8	54.7	+ 1.2
Jefferson City	34.6	+ 4.8	29.0	− 3.1	36.8	− 6.8	55.0	− 1.0	62.2	− 2.5	72.4	− 1.4	74.0	− 4.1	82.9	+ 6.2	72.0	+ 2.7	64.2	+ 7.4	40.7	− 3.4	38.2	+ 5.3	55.2	+ 0.4
Joplin Airport	36.2	+ 1.3	31.4	− 4.4	40.4	− 8.2	57.1	− 1.4	63.7	− 2.6	75.4	+ 2.0	77.4	− 0.7	85.6	+ 8.3	75.0	+ 2.9	68.4	+ 8.2	43.4	− 4.9	39.2	0.0	57.8	+ 0.1
Lakeside	35.6	+ 2.6	29.6	− 4.4	37.2	− 7.4	55.2	− 0.2	63.0	− 3.1	73.6	− 1.4	75.3	− 5.2	83.0	+ 3.9	72.2	+ 1.2	65.4	+ 5.6	42.6	− 1.9	38.6	+ 1.3	55.9	− 0.8
Lamar	35.2	+ 3.1	30.0	− 5.3	38.4	− 7.6	55 0	− 1.6	61.3	− 4.3	73.1	− 1.1	74.6	− 3.8	82.1	+ 4.4	71.9	+ 1.1	66.6	+ 7.7	41.9	− 4.4	38.0	+ 2.8	55.7	− 0.7
Lebanon	36.9	+ 4.4	31.0	− 3.4	38.2	− 6.8	54.0	− 1.5	62.0	− 2.9	72.0	− 0.7	74.3	− 2.6	84.0	+ 7.9	72.2	+ 2.8	66.2[c]	+ 8.5	42.5	− 3.1	40.7	+ 5.9	56.2	+ 0.7
Lexington	33.8	+ 6.0	29.0	− 2.0	35.8	− 7.6	52.6	− 2.0	60.4	− 4.0	71.4	− 1.5	76.2	− 1.2	84.5	+ 8.3	75.9[f]	+ 7.1	*65.4*	+ 7.9	38.8	− 5.4	35.6	+ 3.6	55.0§	+ 0.8
Lockwood	38.0	+ 4.7	31.5	− 5.5	39.8	− 7.5	57.1	+ 0.6	64.4	0.0	75.0	+ 1.4	76.4	− 1.2	84.4	+ 7.2	75.0	+ 4.1	68.2	+ 9.5	44.2	− 2.8	41.3	+ 5.2	57.9	+ 1.3
Marshall	33.7	+ 5.8	28.1	− 2.8	36.8	− 6.2	54.6	− 0.2	62.3	− 1.9	72.0	− 1.2	75.2	− 2.3	83.5	+ 7.5	72.4	+ 3.6	64.9	+ 8.3	39.9	− 5.3	38.1	+ 6.2	55.1	+ 0.9
Marshfield	....	.....	....	.....	....	.....	....	.....	....	.....	....	.....	....	.....	....	.....	....	.....	....	.....	....	.....	37.2[i]	.....	....	.....
Monett	38.8	.....	29.8	.....	38.6	.....	55.4	.....	62.0	.....	72.2	.....	75.0	.....	82.8§	.....	73.6	.....	66.6	.....	42.2	.....	39.8	.....	56.4§	.....
Mountain Grove	37.2	+ 4.4	31.2	− 3.9	38.8	− 6.6	57.2	+ 2.3	63.6	− 0.2	72.9	+ 1.1	74.8	− 1.6	82.8	+ 7.3	73.0	+ 4.1	66.0	+ 8.4	43.0	− 2.9	40.7	+ 6.0	56.8	+ 1.6
Mount Vernon	38.8	+ 5.5	32.8	− 1.7	40.4	− 5.5	58.0	+ 1.9	64.1	− 1.7	74.8	+ 1.5	75.2	− 2.5	83.6	+ 6.9	74.6	+ 4.1	67.2§	+ 8.6	44.2	− 1.6	40.3§	+ 4.8	57.8§	+ 1.7
Neosho	39.4	+ 4.3	34.0	− 3.6	42.0	− 6.1	59.0	+ 0.7	65.0	− 1.0	75.5	+ 1.7	76.0	− 1.5	83.4	+ 6.3	74.4	+ 3.9	66.6	+ 7.4	44.9	− 2.4	40.8	+ 3.7	58.4	+ 1.1
Nevada	36.4	+ 4.5	31.5	− 2.4	39.8	− 5.1	57.3	+ 1.6	64.5	0.0	75.0	+ 1.5	77.2	− 2.4	84.5	+ 7.4	74.6	+ 5.1	68.0	+10.4	43.6	− 1.2	40.1	+ 4.8	57.7	+ 2.0
Ozark Beach	37.6	.....	32.4	.....	40.7	.....	58.9	.....	65.8§	.....	75.8	.....	77.8	.....	84.9	.....	74.4	.....	66.4	.....	44.4[a]	.....	40.4	.....	58.3§	.....
Sedalia	34.8	+ 8.4	29.2	− 1.2	37.2	− 5.6	55.0	− 0.3	62.5	− 2.8	73.3	− 0.9	75.9	− 1.6	84.0	+ 7.5	73.6	+ 4.4	66.0	+ 8.3	41.0	− 2.3	38.9	+ 5.0	56.0	+ 1.6
Seligman	38.6	+ 3.5	30.4	− 7.1	40.6	− 6.0	57.6[a]	+ 1.0	62.9§	− 1.6	73.9	+ 1.5	74.9	− 1.8	83.4	+ 7.2	72.3[c]	+ 2.7	66.6	+ 7.6	43.8	− 3.5	41.4	+ 4.1	57.2§	+ 0.6
Seymour ...... 3½ miles NE	33.7	− 0.3	26.4	− 8.6	34.6	−10.8	52.4	− 3.3	60.4	− 3.3	70.6	− 1.1	71.9	− 3.6	80.4	+ 5.4	69.8	+ 1.0	63.8	+ 6.4	40.8	− 5.1	37.6§	+ 2.2	53.5§	− 1.8
Springfield.....4 miles NW	35.7	+ 3.4	28.7	− 5.3	37.4	− 6.2	55.9	+ 0.7	62.0	− 1.7	73.1	+ 1.4	74.3	− 1.9	82.4	+ 7.4	71.9	+ 3.5	65.9	+ 8.3	41.8	− 3.2	38.6	+ 3.1	55.6	+ 0.7
Sweet Springs	32.8	.....	28.2	.....	36.2	.....	54.2	.....	61.8	.....	72.4[a]	.....	74.4[a]	.....	83.1	.....	72.0	.....	64.2§	.....	40.4	.....	37.8§	.....	54.8§	.....
Warrensburg	34.4	+ 5.7	29.4	− 3.1	38.0	− 6.0	55.2[a]	− 0.9	63.6	− 1.4	73.3	− 0.6	76.2	− 2.6	84.9	+ 7.8	74.6	+ 4.4	67.2	+ 9.2	41.0	− 4.0	38.8	+ 5.4	56.4	+ 1.2
Warsaw	36.0	+ 3.1	31.2	− 4.4	38.8	− 8.2	57.4	+ 0.7	64.2	− 1.3	74.8	+ 1.0	76.4	− 1.9	84.8	+ 7.2	75.0	+ 4.5	66.2	+ 7.2	43.3	− 3.9	40.1	+ 4.4	57.4	+ 0.8
Wasola	39.6	.....	33.0	.....	40.2	.....	58.8	.....	64.5	.....	73.8	.....	76.0	.....	83.0	.....	73.0§	.....	68.2	.....	44.0	.....	40.9§	.....	57.9§	.....
Waynesville	35 0[f]	.....	29.0[i]	.....	....	.....	....	.....	....	.....	....	.....	....	.....	....	.....	....	.....	....	.....	42.6	.....	41.2[a]	.....	....	.....
Division means	**36.0**	**+ 4.0**	**30.1**	**− 4.2**	**38.3**	**− 7.1**	**56.0**	**− 0.2**	**62.9**	**− 2.2**	**73.3**	**− 0.1**	**75.4**	**− 2.4**	**83.5**	**+ 6.7**	**73.0**	**+ 3.0**	**66.3**	**+ 8.0**	**42.2**	**− 3.7**	**39.2**	**+ 4.0**	**56.4**	**+ 0.5**
Southeastern Division																										
Advance .... ¼ mile W	38.2	+ 3.9	30.5	− 8.3	39.3	− 8.7	56.7	− 0.8	64.0	− 1.8	74.4	− 0.7	74.4	− 3.8	83.5	+ 6.2	70.6	+ 0.8	65.1	+ 5.9	43.1	− 3.0	38.0	+ 1.5	56.5	− 0.7
Arcadia	35.8	+ 3.9	28.2	− 5.9	36.4	− 8.2	55.0	− 0.3	62.6	− 1.5	72.1	+ 0.3	73.6	− 2.2	82.4	+ 8.1	70.0	+ 2.4	63.9	+ 7.9	42.4	− 1.5	37.7	+ 3.4	55.0	+ 0.5
Birch Tree........ ½ mile E	38.2	+ 3.7	31.6	− 4.7	39.5	− 7.8	57.9[b]	+ 0.8	63.8[e]	− 1.2	*73 6*[c]	+ 0.9	74.8[b]	− 1.8	82.4	+ 6.3	71.8	+ 2.0	64.6[c]	+ 6.2	43.4	− 3.2	39.6§	+ 3.2	56.8§	+ 0.4
Black............9 mi. NW	35 9	+ 3.3	29.4	− 4.9	36.4	− 8.6	55.1	+ 0.1	61.4	− 2.6	71.0	− 0.9	71.4[b]	− 4.2	79.3§	+ 4.8	67.8	0.0	61.2	+ 5.3	42.6[j]	− 2.1	36.5[f]	+ 1.7	54.0§	− 0.7
Campbell	40.8	+ 3.1	33.8	− 8.3	42.8	− 5.2	60.0	+ 1.3	66.7	− 0.6	75.6	+ 0.1	75.6	− 4.8	83.6[e]	+ 6.4	74.8[e]	+ 3.2	66.5[l]	+ 6.4	45.8[c]	− 1.8	41.0	+ 2.6	58.9	+ 0.2
Cape Girardeau	39.2	.....	32.2	.....	40.7	.....	59.0	.....	65.4	.....	75.0	.....	75.8	.....	83.5	.....	72.3	.....	67.2	.....	44.2	.....	39.9	.....	57.9	.....
Caruthersville	42.8	+ 3.7	35.9	− 4.4	43.8	− 7.6	61.8	+ 1.6	68.2	− 1.6	77.0	− 1.4	76.8	− 4.5	83.8	+ 3.5	75.0	+ 0.5	69.0	+ 6.8	48.4	− 2.0	44.0	+ 3.1	60.5	− 0.2
Clearwater Dam	39.4	.....	31.4	.....	40.8§	.....	59.0	.....	64.8	.....	74.0§	.....	78.6§	.....	82 7	.....	71.5	.....	64.6	.....	44.1	.....	40.2	.....	57.6§	.....
Crystal City	38.2	+ 6.8	31.6	− 3.6	38.7	− 6.5	57.8	+ 2.8	64.8	− 0.4	74.6	+ 0.3	75 3	− 4.3	83.8	+ 5.6	71.8	+ 2.9	65.0	+ 6.6	42.0	− 1.9	40.1	+ 5.7	57.0	+ 1.2
Doniphan	40.0	+ 4.2	33.1	− 6.2	42.5	− 6.5	60.2	+ 1.7	65.8	− 0.7	75.5	+ 0.5	75.8	− 2.8	84.0	+ 6.4	73.2	+ 2.0	66.0	+ 7.5	45.2	− 2.1	40.1	+ 2.3	58.4	+ 0.5
Farmington	37.5	+ 4.9	30.4	− 6.5	38.0	− 8.5	56.4	− 0.5	62.9	− 0.8	72.6	− 0.2	72.7	− 3.6	82.0	+ 6.6	70.0	+ 0.4	63.8	+ 7.0	41.2	− 3.6	39.0	+ 2.3	55.5	− 0.3
Greenville	38.6[c]	+ 3.6	32.4	− 3.4	40.4	− 7.3	58.6	+ 2.0	63.5[a]	− 2.4	73.2[d]	− 0.4	*76.4*	− 1.0	*83.2*	+ 6.5	72.0	+ 1.2	65.3	+ 7.7	44.6[e]	− 0.8	39.6	+ 3.4	57.3§	+ 0.7
Jackson	38.6	+ 4.8	31.9	− 4.6	40.4	− 6.8	58.8	+ 1.7	65.4	− 0.2	75.8	+ 1.7	75.8	− 1.8	84.2	+ 8.1	72.7	+ 2.6	66.6	+ 8.7	44.0	− 2.6	38.9	+ 2.3	57.8	+ 1.2

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Monthly and Annual Mean Temperatures for the Year 1947, with Departures from Normal—Continued from preceding page

Stations	January		February		March		April		May		June		July		August		September		October		November		December		Annual	
	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure
Southeastern Div.-Concluded																										
Koshkonong	36.4	− 0.1	33.4	− 5.7	41.6	− 7.8	59.7	+ 1.2	66.2	− 0.4	75.4	+ 1.0	77.0	− 1.8	84.8	+ 6.9	74.6	+ 3.2	67.8	+ 8.2	44.9	− 4.1	42.2	+ 3.8	58.7	+ 0.4
Licking	34.8	+ 1.7	28.6	− 9.3	37.8	− 9.3	55.6	− 1.1	62.0	− 2.4	70.7	− 2.3	72.3	− 4.9	81.9ᶜ	+ 5.2	71.1§	+ 2.1	64.5ᶜ	+ 5.7	41.0	− 4.3	39.7	+ 3.3	55.0§	− 1.3
Marble Hill	37.7	+ 3.1	30.4	− 6.2	38.6	− 9.0	57.5	+ 0.3	64.2	− 1.4	74.2	+ 0.2	74.2	− 3.6	83.0	+ 6.0	71.4	+ 0.7	64.8	+ 6.6	43.4	− 1.8	37.4	+ 0.7	56.4	− 0.4
Poplar Bluff	40.2	+ 4.2	34.6	− 3.5	42.4	− 6.2	60.1	+ 0.6	66.1	− 1.4	75.8	+ 0.4	76.4	− 2.8	83.6	+ 5.6	72.8	+ 1.1	66.7	+ 6.6	45.6	− 2.1	41.0	+ 3.2	58.8	+ 0.5
Rolla	33.6	+ 1.7	27.4	− 8.9	36.1	− 9.4	53.8	− 2.1	61.7	− 2.8	71.2	− 1.8	72.8	− 4.9	82.2	+ 6.0	70.8	+ 2.1	64.4	+ 7.9	40.4	− 4.6	37.9	+ 3.3	54.4	− 1.1
St. Louis:																										
City Office	37.5	+ 6.4	28.5	− 6.3	37.2	− 6.9	55.9	− 0.2	64.0	− 3.0	73.2	− 1.8	77.0	− 1.8	85.6	+ 8.1	72.4	+ 1.9	67.2	+ 8.4	41.6	− 3.8	38.8	+ 3.9	56.6	+ 0.4
St. Louis Airport	36.6	+ 6.8	28.2	− 5.8	36.4	− 6.6	54.8	0.0	63.0	− 2.8	73.1	− 0.9	76.0	− 1.8	84.9	+ 8.5	71.2	+ 2.4	65.5	+ 8.2	40.4	− 3.5	38.0	+ 4.6	55.7	+ 0.8
St. Louis University	37.2	+ 5.2	28.3	− 6.6	37.4	− 6.8	56.0	+ 0.3	64.0	− 1.7	72.8	− 2.4	76.8	− 3.7	85.0	+ 7.2	71.8	+ 0.9	66.6	+ 8.0	41.2	− 4.5	39.0	+ 3.9	56.3	− 0.1
Washington University	35.2	......	27.8	......	37.0	......	54.4	......	63.4	......	72.8	......	75.4	− 3.4	84.5	+ 6.3	71.8	+ 1.4	65.2	+ 4.5	40.4	− 4.5	37.7	+ 3.4	55.5	......
Salem	36.8	+ 4.2	30.0	− 5.8	38.0	− 8.4	56.0	0.0	63.6	− 0.9	73.3	+ 0.9	73.8	− 3.0	82.6	+ 6.7	70.7	+ 1.5	64.0	+ 6.4	42.4	− 3.7	39.8	+ 4.4	55.9	+ 0.2
Sikeston	39.1	+ 2.1	30.8	− 6.4	40.2	− 8.4	55.5	− 2.6	64.9	− 3.6	75.6	+ 1.3	76.0	− 2.6	85.4	+ 7.8	72.8	+ 1.7	67.0	+ 7.7	44.5	− 2.7	39.1	+ 1.4	57.6	− 0.3
Union ....1½ miles SE	35.8	+ 2.4	29.1	− 8.3	37.0	−10.3	56.0ᵇ	− 0.9	63.3	− 1.4	72.8	− 1.3	73.8	− 4.4	83.3§	+ 5.3	71.2	+ 2.1	63.7	+ 4.2	41.6	− 4.5	39.0	+ 3.5	55.6§	− 1.1
Vichy .... 2 miles NW	34.8	......	26.8	......	35.2	......	55.0	......	62.2	......	72.3	......	74.6	......	84.1	......	71.5	......	65.8	......	40.2	......	37.8	......	55.0	......
Wappapello Dam	38.8	......	31.2	......	40.2	......	58.6	......	64.8	......	74.8	......	76.1	......	83.4	......	72.4	......	66.4	......	44.4	......	38.9	......	57.5	......
Webster Groves	35.8	......	28.8	......	37.0	......	56.2	......	63.2	......	72.8	......	74.4	......	83.2	......	71.1	......	63.8	......	40.9	......	38.4	......	55.5	......
Weingarten	37.0	......	30.0	......	37.7	......	56.0	......	63.2	......	72.1	......	74.2	......	83.6	......	70.8	......	64.6	......	40.6	......	38.6§	......	55.7§	......
West Plains	37.4	+ 3.4	30.0	− 8.6	38.8	− 8.3	56.9	− 0.1	63.2	− 1.4	74.0	+ 0.6	75.2	− 2.5	83.8	+ 6.8	71.6	+ 2.6	64.6	+ 5.7	42.6	− 2.7	38.2	+ 1.7	56.4	− 0.2
Willow Springs....500 ft. E	37.8	......	31.1	......	39.4	......	57.8	......	64.0	......	73.1	......	73.6	......	81.7	......	71.6	......	64.6	......	42.7	......	40.1	......	56.5	......
Cairo, Ill	40.6	+ 5.7	32.2	− 6.3	41.6	− 6.1	59.8	+ 0.7	67.1	− 2.3	76.6	− 0 7	77.5	− 3.1	84.8	+ 6.0	73.2	+ 0.7	67.8	+ 7.3	45.6	− 1.7	40.6	+ 2.8	59.0	+ 0.3
Division means	**37.8**	**+ 3.9**	**30.7**	**− 6.2**	**39.1**	**− 7.7**	**57.3**	**+ 0.3**	**64.2**	**− 1.6**	**73.8**	**− 0.3**	**75.1**	**− 3.2**	**83.4**	**+ 6.4**	**71.8**	**+ 1.7**	**65.4**	**+ 7.0**	**43.1**	**− 2.9**	**39.3**	**+ 3.0**	**56.7**	**0.0**
State means	**34.9**	**+ 4.0**	**28.8**	**− 4.5**	**37.4**	**− 6.7**	**55.2**	**− 0.1**	**62.3**	**− 2.1**	**72.6**	**− 1.0**	**75.0**	**− 3.0**	**83.4**	**+ 6.8**	**71.9**	**+ 2.6**	**65.2**	**+ 7.3**	**41.0**	**− 3.4**	**37.7**	**+ 3.5**	**55.4**	**+ 0.2**

Figures and letters following station indicate distance and direction of station from the city Post Office, unless otherwise indicated. Letters of alphabet indicate number of days missing from report: thus [ᵃ] one day; [ᵇ] two days, etc. Italics data interpolated. § Partly interpolated. (C) Airport.

Monthly and Annual Precipitation for the Year 1947, with Departures from Normal—Continued from page 101

Stations	January		February		March		April		May		June		July		August		September		October		November		December		Annual	
	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure
Southeastern Div.Cont.																										
Owensville	§0.89	−0.93	0.33	−1.33	2.97	−0.35	8.74	+5.43	3.83	−0.97	7.19	+2.54	§3.00	−0.62	0.44	−3.40	3.49	0.00	4.58	+1.15	2.92	+0.11	0.91	−1.42	§39.29	+ 0.21
Pacific	§1.74	−0.62	0.30	−1.84	§2.07	−1.64	§7.75	+3.58	§3.49	−1.46	§6.19	+1.66	§4.21	+0.57	§1.44	−2.25	§2.70	−1.10	§6.99	+3.96	§2.58	−0.17	*0.54*	−1.66	§40.00	− 0.97
Parma	2.53	−2.73	0.30	−2.58	2.23	−3.13	5.79	+1.55	6.24	+2.08	4.59	+1.11	1.97	−1.92	2.21	−2.36	3.61	−1.44	3.70	+0.56	5.69	+1.22	2.83	−1.95	41.69	− 9.59
Perryville	2.17	......	0.10	......	§1.84	......	8.43	......	3.04	......	*5.55*	......	*2.53*	......	*2.03*	......	4.56	......	3.86	......	3.25	......	3.23	......	§40.59	......
Poplar Bluff	1.06	−3.36	0.19	−2.70	1.91	−2.45	5.52	+1.01	5.26	+0.74	6.64	+2.52	1.00	−2.94	1.24	−3.33	2.50	−1.39	4.54	+0.88	3.25	−0.23	2.46	−1.53	35.57	−12.78
Puxico	1.70	......	0.32	......	2.42	......	5.33	......	4.22	......	6.02	......	2.02	......	3.14	......	3.07	......	5.63	......	3.37	......	2.70	......	39.94	......
Qulin	1.92	......	0.33	......	1.82	......	6.64	......	5.03	......	3.57	......	3.05	......	2.06	......	2.09	......	4.68	......	4.32	......	3.42	......	38.93	......
Reynolds	1.27	......	0.27	......	2.23	......	8.48	......	4.11	......	5.24	......	1.74	......	1.78	......	3.11	......	4.00	......	4.05	......	1.22	......	37.50	......
Richwoods	1.10	−1.00	0.22	−2.36	§2.86	−0.56	6.45	+1.95	§3.83	−1.65	5.77	+0.93	5.41	+2.87	2.22	−1.05	2 88	−0.70	4.65	+2.27	2.64	−0.99	0.65	−1.98	§38.68	− 2.27
Rolla	1.28	−1.18	0.20	−1.85	2.94	−0.69	6.89	+2.67	2.60	−2.15	6.86	+2.45	1.96	−1.43	1.04	−3.40	4.87	+0.73	7.38	+3.92	2.65	−0.03	0.55	−1.63	39.22	− 2.59
Round Spring	1.47	......	0.24	......	2.10	......	6.69	......	3.28	......	6.08	......	3.18	......	2.88	......	3.54	......	3.28	......	3.79	......	1.04	......	87.57	......
St. Louis:																										
City Office	2.23	−0.11	0.41	−2.15	2.24	−1.14	6.18	+2.37	2.43	−1.91	7.39	+3.57	0.68	−2.30	1.55	−1.44	2.64	−0.82	6.60	+3.88	2.43	−0.40	2.34	+0.13	37.12	− 0.32
St. Louis Airport	2.08	−0.18	0.27	−1.97	2.58	−0.30	7.25	+3.63	3.23	−0.69	7.44	+3.15	1.06	−1.60	0.55	−2.47	3.03	−1.34	4.05	+0.63	1.80	−0.60	2.44	+0.71	35.78	− 1.03
St. Louis Univ	2.13	−0.47	0.74	−1.57	2.56	−0.78	6.16	+2.30	2.19	−2.00	6.35	+2.76	0.57	−2.61	2.05	−1.89	2.28	−1.48	6.23	+3.07	2.01	−0.53	2.30	−0.14	35.57	− 3.34
Washington Univ	1.66	+0.02	0.23	−2.04	3.38	−0.34	7.14	+2.18	2.69	−2.02	5.78	+0.64	2.31	−0.32	1.42	−3.70	3.06	−0.24	5.91	+3.22	2.94	−0.79	0.70	−1.27	37.22	− 4.66
Salem	0.97	−1.75	0.29	−1.99	2.42	−1.45	8.02	+3.52	3.39	−1.12	5.69	+1.04	2.89	−0.61	0.93	−3.64	2.81	−1.07	5.96	+2.34	2.75	+0.11	2.76	+0.22	38.88	− 4.40
Sikeston	2.90	−1.96	0.35	−2.87	2.35	−2.11	6.40	+1.78	4.85	+0.61	4.54	+0.35	1.65	−2.07	1.67	−2.13	4.02	+0.14	4.30	+1.03	5.61	+2.05	2.51	−1.43	41.15	− 6.61
Steelville ....2½ mi. NE	1.01	−1.05	0.30	−1.87	2.29	−0.45	7.31	+2.83	4.25	−0.25	4.87	+0.71	3.14	−0.02	0.12	−3.52	3.73	+0.32	6.43	+3.18	2.71	−0.03	0.30	−1.99	36.46	− 2.14
Sullivan	1.47	−0.56	0.21	−2.24	2.72	+0.08	7.29	+2.88	3.88	−1.92	5.80	−0.15	4.13	+1.21	0.50	−2.49	3.27	+0.15	5.63	+2.54	2.50	−0.79	0.41	−2.29	37.81	− 3.58
Summersville	2.13	......	0.28	......	1.90	......	5.95	......	2.84	......	*3.80*	......	2.13	......	2.30	......	4.53	......	3.04	......	4.31	......	1.10	......	§34.31	......
Union ....1½ mi. SE	1.23	−1.09	0.23	−1.97	1.61	−1.69	5.12	+0.76	4.14	−0.40	5.23	+0.93	2.16	−1.78	0.38	−4.32	2.76	−1.43	5.95	+2.47	2.51	−0.24	0.48	−1.73	31.80	−10.49
Valley Park	1.52	−0.74	§0.18	−1.71	2.30	−1.07	6.87	+2.75	2.80	−1.67	5.40	+1.52	2.63	−0.29	1.15	−2.90	2.63	−0.91	6.27	+2.88	3.28	+0.68	0.72	−1.45	§35.75	− 2.91
Van Buren	2.12	−1.00	0.48	−2.63	1.59	−1.85	5.20	+0.88	2.96	−1.45	3.13	−0.69	0.73	−1.43	5.36	+2.32	4.90	+1.87	4.58	+2.07	3.88	+0.72	1.67	−1.04	36.60	− 2.23
Vichy .... 2 mi. NW	0.68	......	0.25	......	2.39	......	7.49	......	2.96	......	8.52	......	1.52	......	0.91	......	2.67	......	7.87	......	2.02	......	2.02	......	39.30	......
Wappapello Dam	1.81	−0.87	0.43	−3.18	1.78	−2.97	5.16	−0.32	4.16	−0.35	5.17	+1.23	2.01	−0.94	5.89	+1.64	3.42	+0.41	4.92	+1.64	3.02	−0.49	2.64	−0.20	40.41	− 4.40
Webster Groves	1.74	......	0.31	......	2.39	......	6.28	......	2.53	......	6.76	......	1.77	......	1.16	......	2.65	......	6.71	......	2.52	......	1.35	......	36.17	......
Weingarten	1.82	......	§0.30	......	2.47	......	8.63	......	3.35	......	4.19	......	2.60	......	1.48	......	2.60	......	4.10	......	3.12	......	2.81	......	§37.47	......
West Plains	1.22	−1.76	0.85	−2.64	1.26	−2.65	5.75	+0.10	2.76	−2.22	1.85	−3.11	1.70	−0.74	1.39	−1.34	4.34	+1.20	2.27	−0.95	3.58	−0.46	5.92	+2.70	32.89	−11.87
Williamsville	1.96	−2.50	0.79	−1.85	1.58	−2.32	7.84	+3.12	4.38	−0.09	6.74	+0.91	1.82	−2.21	*4.90*	−0.44	3.88	+0.51	5.06	+0.95	3.40	−0.19	2.46	−1.90	§44.81	− 6.01
Willow Springs 500 ft E	2.06	−1.12	0.52	−2.04	2.21	−2.03	7.07	+2.23	3.67	−0.93	3.90	−0.93	1.54	−2.26	0.93	−3.15	4.33	+0.25	2.19	−1.13	3.76	+0.42	1.25	−1.55	33.43	−12.24
Winona Ranger Sta.	1.45	......	0.49	......	§1.97	......	6.22	......	1.88	......	2.60	......	1.45	....	3.93	......	3.97	......	3.53	......	3.11	......	1.68	......	§32.28	......
Zalma......3½ miles S	1.70	−2.04	0.39	−3.37	1.87	−2.94	6.47	+1.20	3.80	−0.80	5.48	+1.30	1.39	−1.41	2.20	−1.68	3.43	+0.82	6.51	+3.47	3.48	−0.07	2.85	−0.01	39.57	− 5.53
Cairo, Ill	2.80	−0.96	0.55	−2.58	2.44	−1.31	6.30	+2.58	5.71	+2.00	4.37	+0.54	1.06	−2.01	0.87	−2.15	2.40	−0.49	4.80	+2.04	3.77	+0.09	4.15	+0.75	39.22	− 1.50
....	....	......	....	......	....	......	....	......	....	......	....	......	....	......	....	......	....	......	....	......	....	......	....	......	......	......
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Italics data interpolated. § Partly interpolated. ¶ Indicates plus. (A) Cooperative station. (B) River station. (C) Airport.

(Continued from page 97)

severe drought since 1936 prevailed at the close of month, with serious deterioration of crops, including pastures. Many heat prostrations were reported, with numerous fatalities occurring, especially in the larger cities. Supplies of water, for both domestic use and for livestock, became critically short during the month and some municipalities, whose sources of supply were drilled wells, were forced to appeal for all possible conservation of water uses by the citizens. Many wells failed and many small creeks and ponds dried up entirely. The drought continued well into September, which proved to be the warmest since 1939. However the critical shortage of water was relieved in many localities by rain on the 20th-21st, and vegetation generally took on a new lease on life.

October proved to be a most favorable month, with mean temperature the highest of record, and copious, general rains during the last week, finally broke the drought that had persisted over much of the State since the latter part of July. Conditions were highly favorable for curing and harvesting all crops. November was the coldest in ten years, and on the whole, a cloudy, disagreeable month. However, no unusually low temperatures were recorded, the cold being of the persistent type. The first general killing frost of the season occurred on the 8th, thus bringing to a close an unusually long growing season for most stations. Unlike November, December was considerably warmer and slightly drier than normal, and a most favorable month for seasonal outdoor activity.

Tornadoes were reported in January, April, May, June and September, the toll in lives lost being 21, while more than 80 persons were injured and property damage was in excess of one million dollars. Windstorms caused additional property damage of more than $200,000, and resulted in death of one person and injury to 15 others, while hail damage this year was in excess of $28,000. A minister was killed by lightning in the month of July near Eldon, and thus brought the total meeting death in that manner to 5 for the year 1947.

TEMPERATURE

The annual mean temperature for the State was 55.4°, which is 0.2° above the 60-year average. The highest annual mean was 60.5° at Caruthersville, and the lowest annual mean was 50.1° at Unionville. The highest temperature recorded was 109° at Carthage, on August 31st, and at Kansas City Airport Station, on September 3d; also at Union on September 4th. The lowest reported was 28° below zero at Bethany and Tarkio on January 4th.

PRECIPITATION

The average annual precipitation for the State, 39.84 inches, was 0.65 inch less than the 60-year normal. The greatest annual amount was 60.67 inches at Lathrop, and the least annual amount was 27.07 inches at Seligman. The greatest local monthly amount was 23.60 inches, at Lathrop, in June; no precipitation was recorded at Madison, Palmyra, Perry and Shelbyville during the month of February, while a number of other stations had only a Trace. The greatest amount in any 24 consecutive hours was 6.06 inches, at Shelbina, on September 20th-21st. The average number of days with 0.01 inch, or more, was 94.

The average annual snowfall for the State was 17.4 inches, or only 0.2 inch less than the 54-year average. The greatest annual amount was 36.7 inches at Oregon, and the least annual amount was 1.0 inch at Bernie. The greatest monthly snowfall was 26.0 inches at Mexico in March.

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CLIMATOLOGICAL DATA

19

MISSOURI SECTION

H. F. WAHLGREN
ST. LOUIS, MO.

VOL. LII JANUARY 1948 No. 1

PRICE: 5 CENTS A COPY; 25 CENTS A YEAR

GENERAL SUMMARY

January was a cold month with more snow than had fallen in any month of that name since 1940. It brought the first real extended winter weather of the current winter and the most severe ice and sleet storm since December 1924.

It was the coldest January since 1940 and the 13th coldest month of that name in the past 61 years. Although the high and low extremes of temperature were not unusual, as extremes go, the daily averages were below normal the first two or three days and during the latter half of the month, as a rule; from the 4th to the 15th daily averages were generally above normal. All three divisions of the State, as well as each individual station, averaged colder than normal, viz:—Northern, 22.2°, —4.3°; Southwestern, 27.2°, —4.8°; Southeastern, 27.8°, —6.1°; for the State, 25.7°, —5.2°. The usual January thaw did not occur this month, the coldest weather of the winter, to date, prevailing at the time this phenomenon usually occurs during January.

Precipitation during the month was from a combination of rain, sleet, and snow, the latter form being quite heavy over the northwestern quarter of the State and moderately heavy over scattered areas of the Southwestern and Southeastern divisions. On the 1st heavy snow, high wind and blizzard conditions prevailed over the more northern counties of the State, and badly drifted the snow and blocked roads and highways and generally tied up traffic in that area. At Unionville a total of 17 inches of snow fell during this storm and many other stations in that area reported snowfall of 8 inches or more on the 1st. At the same time the remainder of the State, except the more southern counties and most of the Southeastern Division, was in the grip of a severe glaze and sleet storm that turned to snow and which is described in the special storm table elsewhere in this issue. Snow covered the ground throughout the month at a number of stations in the extreme northern portion while elsewhere over the State the ground was covered only during the first few days of the month and again the last 10 days or so, quite generally. Distribution of the monthly precipitation was very irregular, ranging from a total of 5.73 inches near Annapolis to only 0.25 inch at Joplin Airport and 0.27 inch at Tarkio. The Southeastern Division received the most precipitation during January, with an average of 3.39 inches, or 0.16 inch more than normal; the averages and departures from normal for the Southwestern and Northern divisions were 1.89 inches, —0.20 inch and 1.43 inches, —0.16 inch, respectively. The bulk of the monthly total at most stations occurred on the first day of the month, as a rule.

Damaging storms were confined to the first day of the month and are described in the special storm table of this publication.

Minor floods occurred in the Black, Meramec and St. Francis rivers early in the month, following heavy rains over the drainage basins of those rivers on December 31-January 1st. During the latter half of the month most of the smaller rivers and streams of the State were frozen over, while the major rivers were affected by ice conditions.

(Continued on page 3)

PRESSURE, WIND, HUMIDITY, AND SUNSHINE

Stations	Sea-level pressure, extremes-inches: Highest	Date	Lowest	Date	Wind: Average hourly velocity	Maximum velocity ¶	Direction of maximum	Date	Relative humidity: 12:30 a. m.	6:30 a. m.	12:30 p. m.	6:30 p. m.	Percentage of sunshine	Degree days
Columbia.....	30.78*	27	29.35*	1	7.6	28	w.	15	80*	81*	67*	73*	65	1241
K. C. Airport..	30.85	27	29.27	1	10.9	55	ne.	1	73	73	60	63	60	1235
St. Joseph Ap't	30.88	27	29.45	1	8.2	35	ne.	1	78	80	64	69	57	1302
St. Louis ...	30.74*	28	29.11*	1	10.5	34	s.	15	71*	72	59	63*	62	1187
Springfield ...	30.76	27	29.51	22	11.2	29	w.	1	79	82	64	68	48	1185
Cairo, Ill.....	30.68	27	29.20	1	9.4	38	sw.	1	..	80	61	..	50	1109
....	.....	..	.....	..	....	..	......	..	..	..	..	..	..	....

* Data for Airport station. ¶ For 5-minute period.

COMPARATIVE DATA FOR JANUARY

Year	Temperature: Average for State	Highest	Lowest	Precipitation: Average for State	Average, Northern Division	Average, Southwestern Division	Average, Southeastern Division	Snowfall, Average for State	Number of days: Precip. .01 inch or more	Clear	Partly cloudy	Cloudy
1888............	21.5	74	−32	2.14	1.76	2.20	2.47	....	6	..	..	..
1889............	31.8	69	− 2	2.53	1.65	2.48	3.45	....	6	..	..	..
1890............	33 8	81	−19	5.18	3.23	4.18	8.14	....	9	..	..	..
1891............	34.1	74	− 1	1.63	1.36	0.98	2.56	4.3	6	..	..	..
1892............	24.0	67	−31	1.87	1.80	1.87	1.93	....	4	14	8	9
1893............	22.5	66	−14	0.45	0.51	0.41	0.42	2.4	3	9	11	11
1894............	31.4	77	−35	2.48	1.90	2.95	2.59	2.7	5	13	9	9
1895............	24.7	78	−22	1.66	0.97	1.44	2.57	9.4	5	14	8	9
1896............	32.9	71	− 9	1.19	1.05	0.85	1.67	3.1	4	10	7	14
1897............	28.4	72	−16	5.24	4.18	5.50	6.04	4.0	8	12	7	12
1898............	34.3	75	−10	4.11	4.02	3.84	4.48	8.4	9	11	8	12
1899............	30.2	70	−21	1.93	0.62	1.20	3.96	4.0	6	12	8	11
1900............	34.5	77	− 9	1.28	0.98	1.18	1.67	0.2	4	14	7	10
1901............	35.0	72	−11	1.31	1.21	1.45	1.27	0.8	4	17	7	7
1902............	30.1	72	−17	1.36	1.07	0.95	2.05	6.9	5	16	7	8
1903............	31.4	73	−11	1.49	1.07	1.41	1.98	5.0	6	13	6	12
1904............	27.0	66	−23	3.01	2.64	2.74	3.66	7.4	8	14	6	11
1905............	22.3	72	−19	2.04	1.06	2.10	2.95	6.8	8	14	6	11
1906............	35.6	77	− 8	3.44	2.20	3.07	5.04	9.2	6	14	5	12
1907............	34.3	79	− 5	5.04	4.14	5.28	5.69	2.8	12	7	6	18
1908............	34.4	68	−10	1.67	0.50	1.47	3.04	3.6	5	19	5	7
1909............	33.7	83	−20	2.36	2.01	1.70	3.36	6.5	7	6	7	18
1910............	32.3	78	−24	1.82	1.96	1.73	1.78	3.5	5	13	6	12
1911............	34.6	78	−19	0.84	1.57	0.32	0.64	0.7	5	8	7	16
1912............	20.0	70	−36	1.22	0.35	0.79	2.51	6.5	4	14	7	10
1913............	33.1	74	−12	4.18	1.53	2.63	8.38	2.6	8	13	6	12
1914............	38.1	78	− 1	1.45	0.96	1.43	1.95	1.0	4	12	7	12
1915............	29.1	76	−24	2.88	2.29	2.48	3.86	5.4	8	12	5	14
1916............	31.6	72	−24	7.66	5.23	8.32	9.42	3.4	12	9	4	18
1917............	32.9	76	−10	1.53	0.75	1.05	2.79	2.3	5	15	7	9
1918............	16.4	67	−24	1.72	1.08	1.45	2.63	16.6	7	12	7	12
1919............	34.0	70	−23	0.44	0.14	0.32	0.85	1.4	2	20	5	6
1920............	28.6	72	− 5	1.72	0.52	1.39	3.25	5.7	5	15	5	11
1921............	37.1	74	− 1	1.88	1.42	2.07	2.15	5.4	6	10	7	14
1922............	29.5	66	− 6	1.33	1.08	1.41	1.50	3.9	5	14	5	12
1923............	39.2	75	3	2.58	0.77	2.21	4.77	0.6	6	12	7	12
1924............	24.9	68	−25	1.59	1.08	1.64	2.05	5.7	7	14	5	12
1925............	29.7	65	−15	1.05	0.41	1.29	1.44	4.7	4	15	7	9
1926............	32.7	70	−20	1.93	1.28	1.91	2.60	4.2	6	11	7	13
1927............	30.8	73	−24	3.05	0.90	2.43	5.81	3.6	6	13	6	12
1928............	33.3	77	−18	0.97	0.31	0.81	1.80	0.5	3	16	7	8
1929............	25.1	72	−13	3.51	2.77	2.79	4.96	6.8	8	11	6	14
1930............	20.8	73	−31	4.62	2.38	4.18	7.30	13.0	10	12	5	14
1931............	36.0	76	− 5	0.74	0.39	0.65	1.18	2.0	4	16	6	9
1932............	36.4	73	− 7	3.56	1.78	3.23	5.66	1.0	9	10	7	14
1933............	41.4	72	8	2.56	1.73	2.62	3.34	0.5	6	14	8	9
1934............	36.1	71	− 6	1.34	0.88	1.33	1.82	1.5	5	13	6	12
1935............	33.0	71	−12	2.57	1.47	2.44	3.81	0.5	7	12	6	13
1936............	24.4	74	−25	1.01	1.69	0.56	0.77	7.6	7	11	7	13
1937............	28.5	70	−15	6.38	3.66	5.20	10.28	4.3	11	9	5	17
1938............	33.1	75	− 9	2.93	2.53	3.00	3.27	0 3	6	13	6	12
1939............	39.0	74	− 5	2.74	1.40	2.25	4.57	8.1	9	12	8	11
1940............	15.5	55	−28	1.35	1.21	1.19	1.66	12.4	8	13	7	11
1941............	34.7	70	0	3.41	3.59	3.70	2.93	4.4	11	9	5	17
1942............	31.1	74	−24	1.66	0.57	1.30	3.10	3.4	5	18	6	7
1943............	31.1	81	−23	0.39	0.58	0.29	0.30	3.0	4	14	7	10
1944............	35.7	77	− 6	0.63	0.55	0.74	0.61	1.3	4	15	8	8
1945............	30.0	65	−12	1.08	0.98	0.88	1.39	5.4	7	9	7	15
1946............	33.8	71	−15	3.12	2.64	3.24	3.47	0.8	8	12	6	13
1947............	34.9	79	−28	1.30	1.13	0.89	1.89	3.5	6	12	7	12
1948............	25.7	73	−22	2.24	1.43	1.89	3.39	7.5	6	12	9	10
....	....	..	....	....	....	....	....	....	..	..	..	..
Period..........	**30.9**	**83**	**−36**	**2.30**	**1.59**	**2.09**	**3.23**	**4.4**	**6**	**13**	**6**	**12**

Climatological Data for January 1948

Stations	Counties	Elevation, feet	Temperature, in degrees Fahr.							Precipitation, in inches						Number of days				Prevailing direction of wind	Observers
			Length of record, years	Mean	Departure from the normal	Highest	Date	Lowest	Date	Length of record, years	Total	Departure from the normal	Greatest in 24 hours*	Date	Total snowfall, unmelted	With precip., .01 inch or more	Clear	Partly cloudy	Cloudy		
Northern Division																					
Albany	Gentry	930	7	21.8	......	55	8	−20	28	19	1.22§	+0.39	0.95	31-1	13.2§	5	16	8	7	nw.	William J. Butler
Amity	DeKalb	1,007	2	21.9	......	52	8	−18	23	13	1.50	−0.05	1.25	31-1	12.3	6	13	9	9	nw.	O. M. Colhour
Bethany	Harrison	916	53	21.5	− 3.3	52	8	−20	23†	55	1.38	+0.19	1.23	31-1	*11.9*	4	22	1	8	nw.	B. A. McGregor
Brookfield	Linn	767	7	21.8	......	55	8	−11	23†	7	1.47	......	0.82	1	11.0	6	7	9	15	n.	G. F. Breen
Brunswick	Chariton	652	67	22.0	− 4.7	54	8	−11	24	69	1.77	+0.18	1.23	31-1	13.0	8	15	6	10	nw.	O. K. Benecke
Canton, Lock & Dam 20	Lewis	488	10	23.6	− 3.8	53	8	− 6	28	18	1.64	−0.30	0.84	31-1	4.0	5	10[a]	9[a]	11[a]	nw.	Lockmaster
Carrollton	Carroll	754	2	23.4	......	54	8	−15	23†	2	1.43	......	1.00	31-1	9.5	6	18	6	7	nw.	Harold E. Finley
Chillicothe 2 mi ESE(C)	Livingston	771	39	20.6	− 3.8	51	8	−17	23	42	1.30	−0.18	0.91	1	9.1	6	9	10	12	sw.	Civil Aeronautics Adm.
Columbia	Boone	740	58	25.0	− 5.9	68	8	− 9	28	58	1.15	−0.77	0.11	22†	9.8	7	9	10	12	w.	U. S. Weather Bureau
Conception	Nodaway	1,108	59	21.6	− 3.1	52	8	−20	23	64	1.17	+0.38	0.90	31-1	7.6	5	8	14	9	nw.	Fr. Adelhelm Hess
Edgerton	Platte	856	28	21.5	− 5.4	57	8	−15	28†	45	1.73	+0.88	0.96	31-1	10.9	7	12	12	7	n.	Leroy H. Mindrup
Elsberry	Lincoln	449	17	22.7	− 8.9	67	8	−16	28	17	1.89	−0.28	1.54	31-1	3.2	6	14	6	11	n.	Soil Conservation Service
Fayette	Howard	760	68	24.4	− 2.6	64	8	−12	28	65	1.20	−0.59	0.88	31-1	6.1	5	21	2	8	nw.	Irvin E. Schnell
Fulton	Callaway	818	60	22.8	− 6.7	67	8	−15	28	56	1.81	−0.21	0.87	1	14.6§	8	24	1	6	nw.	Frank E. Hillgartner
Grant City	Worth	1,134	44	20.5	− 4.3	51	8	−20	23	56	0.60	−0.37	0.51	31-1	11.3	2	13	5	13	n.	J. Homer Korn
Hannibal	Marion	759	56	22.0	− 5.1	60	8	− 8	28	64	1.38	−0.34	1.26	1	8.8	4	12	10	9	nw.	Hannibal Water Dept.
Kansas City Airport	Jackson	741	59	25.1	− 3.1	57	8	− 5	23	59	0.53	−0.71	0.38	1	6.2	6	12	8	11	sw.	U. S. Weather Bureau
Kidder	Caldwell	1,020	56	21.4	− 4.6	53	8	−17	23	60	1.30	+0.08	0.62	31-1	14.9	6	17	5	9	nw.	Mrs. Geraldine Terry
Kirksville	Adair	969	59	21.3	− 3.5	50	8	−13	28	66	1.13§	−0.39	0.93	31-1	9.5	4	18	7	6	sw.	Dow Jones
Kirksville Airport	Adair	970	9	19.7	......	49	8	−16	23	9	0.84	......	0.71	1	7.2	5	10	8	13	nw.	Civil Aeronautics Adm.
Lathrop	Clinton	1,071	1	22.6	......	54	8	−14	23	1	1.67	......	....	..	10.0§	4	20	5	6	w.	E. L. Fisher
Louisiana	Pike	469	54	24.5	− 3.6	63	8	−14	28	67	1.46	−0.69	1.15	31-1	7.0	4	15	5	11	n.	Stark Bro's Nurseries
Macon	Macon	875	49	20.5	− 7.0	56	8	−12	23	55	1.60	−0.10	0.88	31-1	12.0	6	11	5	15	nw.	John W. Atwell
Maryville	Nodaway	1,169	58	19.8	− 3.1	53	8	−22	23	54	1.39	+0.39	1.16	31-1	14.7	5	13	5	13	nw.	R. B. Montomery
Memphis	Scotland	787	9	19.4	− 4.6	48	7†	−10	28†	18	1.36§	−0.17	0.80	31-1	8.7	5	14	6	11	nw.	John W. Alexander
Mexico	Audrain	800	59	22.1	− 5.9	64	8	−10	23	70	1.52	−0.51	0.81	1	11.9	6	15	10	6	nw.	D. N. Woods
Moberly ‡....3½ mi. NE	Randolph	860	11	21.7§	− 6.3	60	8	−13	28	11	1.89§	+0.13	....	..	9.4§	7	11	11	9	w.	V. L. Laursen
New Florence. 1 mi SE	Montgomery	885	5	20.2[d]	......	..	..	−11	28	6	0.88	......	0.66	1	8.5	5	10	5	16	nw.	U. S. Weather Bureau
Oregon	Holt	1,093	92	21.9	− 2.2	51	8†	−15	23	92	0.79§	−0.14	0.48	1	7.0	3	19	7	5	n.	James M. Curry
Polo	Caldwell	1,000	2	21.4	......	55	8	−14	23	2	1.62	......	0.97	31-1	10.4	7	18	6	7	n.	F. B. Albright
St. Charles	St. Charles	520	60	26.8	− 4.2	67	8	− 7	28	70	2.69	+0.54	1.85	31-1	8.3§	8	11[b]	13[b]	5[b]	n.	Mrs. Myrtle Bregel
St. Joseph Airport	Buchanan	957	38	22.6	− 2.9	52	8	−10	23	76	0.59	−0.69	0.30	1	5.3	6	16	5	10	nw.	U. S Weather Bureau
Salisbury	Chariton	723	2	24.0	......	59	8	−10	23†	2	1.39	......	1.06	31-1	7.3	5	14	9	8	sw.	David H. Robertson
Saverton, Lock No. 22.	Ralls	472	10	24.6	− 3.7	60	9	− 7	28	10	1.32	−0.59	0.80	31-1	6.4§	6	19	6	6	nw.	Lockmaster
Shelbina	Shelby	779	7	22.2	......	56	8	−13	23†	55	1.95§	+0.42	....	..	11.8	5	13	9	9	nw.	Guyman Hatcher
Steffenville	Lewis	650	50	22.3	− 5.1	50	8	−11	28	55	1.74§	−0.27	1.60	31-1	7.8	4	15	6	10	nw.	Mrs. Fannie V. Gross
Tarkio	Atchison	916	45	20.0	− 2.9	57	8	−20	23	54	0.27	−0.47	0.27	31-1	5.8	4	6	13	12	s.	Civil Aeronautics Adm.
Trenton	Grundy	822	52	23.6	− 2.7	58	7	−14	28	53	2.28	+0.94	1.02	31-1	16.4	8	12	16	3	n.	W. H. Estes
Unionville	Putnam	1,062	55	17.6	− 5.9	46	9	−15	28	55	1.97	+0.25	1.21	1	19.2	6	15	7	9	w.	George D. Choate
Vandalia	Audrain	766	4	23.8	......	62	8	−14	23	9	1.63§	......	1.25	31-1	12.0§	4	19	5	7	n.	Mrs. Naomi K. Stoutz
Warrenton	Warren	880	66	25.2	− 4.0	68	8	−13	28	58	1.20	−0 99	0 90	31-1	5.2§	5	17	9	5	w.	W. T. Zimmerman
Keokuk, Iowa	Lee, Ia	574	76	22.2	− 2.7	51	8	− 5	28	76	0 70	−0.86	0.63	1	4.3	6	9	7	15	n.	U. S. Weather Bureau
Division means	**and extremes**	.....	..	**22.2**	**− 4.3**	**68**	**8**	**−22**	**23**	..	**1.43**	**−0.16**	**1.85**	**31-1**	**9.6**	**5**	**14**	**8**	**9**	**nw.**	
Southwestern Division																					
Anderson ...1½ mi sw	McDonald	1.000	44	27.0	− 8.9	62	8	− 2	17†	49	2.10	−0.43	....	..	2.5	3	14	7	10	ne.	Samuel G. Chamberlain
Appleton City	St. Clair	800	53	26.9	− 4.4	56	8	−11	28	56	1.01	−0.83	0.42	1	4.0	4	13	12	6	sw.	F. Paul Eye
Bolivar	Polk	1,071	45	28.9	− 5.0	66	8	− 5	28	53	0.46	−1.47	0.36	31-1	4.0	4	14	11	6	sw.	Southwest Baptist College
Boonville	Cooper	650	10	21.9	− 7.2	64	8	−10	23†	71	2.00	+0.28	1.33	31-1	5.0	6	17	5	9	nw	Boonville Water Dept.
Butler	Bates	865	2	26.9	......	54	8	−10	28	7	0.79	......	0.60	31-1	7.2	5	13	9	9	s.	Harley W. Johnson
Camdenton	Pulaski	940	2	29.8	......	68	9	− 5	28	2	3.44§	......	3.00	31-1	10.0	4	16	6	9	sw.	Mo. Conservation Com.
Carthage	Jasper	962	14	29.8	......	67	8	− 1	28	24	1.16	......	1.11	31-1	4.0	2	7	20	4	s.	Carthage W. and E. Plant
Clinton	Henry	786	55	25.8	− 5.9	60	8	−10	28	61	0 35	−1.68	0.14	1	8.2	4	16	8	7	n.	U S. Weather Bureau
Eldon	Miller	934	53	27.2	− 3.9	68	8	− 7	23	49	1.09	−0.67	0.77	31-1	9.2	6	13	12	6	sw.	Arthur Rothwell
Harrisonville	Cass	904	70	23.4	− 3.9	58	8	−11	28†	73	1.17	−0.40	0.89	31-1	*6.5*	6	10	10	11	nw.	Jeffrey B. Patterson
Jefferson City	Cole	557	58	25.2	− 4.6	68	8	−15	28	66	1.35	−0.63	0.71	31-1	11.4	7	13	11	7	w.	K W. O. S. Radio Farm
Joplin Airport	Jasper	988	26	28.2	− 6.7	63	8	− 2	28	43	0.25	−1.91	0.14	1	5.0§	4	10	8	13	sw.	Civil Aeronautics Adm.
Kansas City Univ.	Jackson	908	10	25.9	− 5.9	56	8	−11	23	10	0.70	−0.84	0.60	1	5.4§	4	13	7	11	nw.	University of Kansas City
Lakeside	Miller	595	17	26.2	− 6.8	67	8	− 8	28	17	2.46	+0 28	1.90	31-1	8.5	7	..	..	..	sw.	W. S. Frame
Lamar	Barton	980	60	26.6	− 5.5	65	8	− 8	28†	67	1.28	−0.55	....	..	1.7§	2	15	7	9	nw.	Mrs. Marie Mann
Lebanon	Laclede	1,265	60	28.6	− 3.9	67	8	− 7	28	61	1.39	−1.25	1 18	31-1	*5.5*	5	10	14	7	nw.	Mrs. Rosa E. Montelius
Lexington	Lafayette	688	63	23.2	− 4.6	57	8	− 9	23	64	1.17	−0.35	0.90	31-1	5.4	7	14	10	7	sw.	William H. Cullon
Lockwood	Dade	1,078	42	30.0	− 3.3	67	8	− 4	28	52	0.92	−0.94	0.81	31-1	6.0	3	13	11	7	sw.	Hubert A. Nieman
Marshall	Saline	779	61	25.1	− 2.8	59	8	−10	23	58	1.18	−0.47	....	..	12.5§	7	13	10	8	se.	Thomas A. Reid
Marshfield	Webster	1,484	3	28.2	......	65	8	− 3	28	7	0.96	......	0.78	31-1	*5.7*	6	14	9	8	nw.	Sho-Me Power Co.
Monett	Barry	1,317	1	27.4	......	63	8	0	28	1	2.17	......	1.95	31-1	5.7	5	9	13	9	n.	Mo. Univ. Fruit Exp. Sta.
Mountain Grove	Wright	1,463	47	28.7	− 4.1	66	8	0	23†	51	3.52	+0.79	3.20	31-1	6 4	6	12	10	9	nw.	Mo Fruit Exp. Station
Mount Vernon	Lawrence	1,174	36	28.8§	− 4.5	64	8	− 1	28	48	3.84	+1.13	2.55	31-1	7.4	5	12	8	11	w.	Arthur D. Ferrer
Neosho	Newton	1,011	61	30.4	− 4.7	66	8	1	17†	65	0.71	−1.76	0.55	31-1	6.3§	7	13	9	9	nw.	U. S Fisheries Station
Nevada	Vernon	862	55	28.4	− 3.5	57	7†	−10	28	56	0.63	−1.20	0.48	31-1	3.5§	4	15	6	10	nw.	Henry Kraft
Ozark Beach	Taney	700	8	29.7	......	73	8	1	24	23	2.28	—0 69	....	..	*5.2*	4	14	7	10	n.	Empire District Elec. Co.
Sedalia	Pettis	910	35	26.2	− 0.2	62	8	−11	28	37	1.26	−0 99	0 97	31-1	8.1	7	17	6	8	sw	Dr. J. E. Cannaday
Seligman	Barry	1,542	47	29.2	− 5.9	64	8	0	28	45	2.25	−0.54	2.15	31-1	5 0	2	13[a]	8[a]	9[a]	nw	Floyd E. Fawver
Seymour ....4 miles NE	Webster	1,642	42	26.4	− 7.6	67	8	− 1	28†	42	2.55	−0 04	2.04	31-1	5.9§	4	17	4	10	n.	Ira H. Hailey
Springfield...4 mi. NW	Greene	1,265	60	26.8	− 5.5	67	8	− 4	28	60	0.44	−1.90	0.11	11-12	7.1	7	8	7	16	n.	U. S. Weather Bureau
Sweet Springs	Saline	700	7	25.2	......	60	8	−15	28	7	1.33	......	0.92	1	11.3§	6	17	9	5	sw.	H. F. Nelson
Warrensburg	Johnson	878	61	27.0	− 1.7	58	8	− 6	28	68	0.99	−0.79	0.76	31-1	4 9§	5	18	8	5	nw	Central Teachers College
Warsaw	Benton	687	47	27.8	− 5.1	64	8	−19	28	53	0.97	−1.17	0.56	31-1	7.1§	5	16	4	11	nw.	Dora B. Johnson
Wasola	Ozark	1,294	7	29.3	......	70	8	0	28	8	4.07	......	....	..	*5.0*	7	15	9	7	w.	A. W. Pinckney
Waynesville...1½ mi. E	Pulaski	805	2	....	......	..	..	..	..	2	2.47§	......	2.23	31-1	7.8§	5	11[h]	7[h]	5[h]	nw.	Fred M. Sanderson
Division means	**and extremes**	.....	..	**27.2**	**− 4.8**	**73**	**8**	**−19**	**28**	..	**1 89**	**−0.20**	**3.80**	**31-1**	**6.4**	**5**	**13**	**9**	**9**	**nw.**	
Southeastern Division																					
Advance.... ¼ mile W	Stoddard	354	11	27.6	− 6.7	63	8	3	28	11	0.88	−2.81	0.50	11-12	4.0	7	6	8	17	n.	U. S. Weather Bureau
Arcadia	Iron	926	67	25.8	− 6 1	66	8	− 9	24	70	5.26	+2.27	4.00	31-1	7.5	5	3	4	24	w.	Arcadia College
Birch Tree... ½ mile E	Shannon	1.000	53	28.3	− 6.2	67	8	− 2	24	54	4.26§	+1.08	3.84	31-1	*5.3*	7	10	13	8	n.	Mrs. Mildred E. Catlett
Black.......9 miles NW	Iron	1,000	55	24.0[c]	− 8.6	66[c]	8	−18[c]	24	55	4.84§	+2 14	....	..	21.3	8	15[c]	4[c]	9[c]	......	J. Cornell Shy
Campbell	Dunklin	314	22	31.0	− 6.7	62	8	3	24	22	2 52	−2.78	2.42	31-1	3.9	7	12	5	14	n.	Mrs. Ruth Christian
Cape Girardeau	Cape Girardeau	347	3	28.7	......	63	8	0	28	48	3 18	−0 80	2.39	31-1	*4.8*	6	4	16	11	n.	State Teachers College
Caruthersville	Pemiscot	265	52	32.8	− 6.3	63	1	6	28	56	3.91	−1.28	2.54	31-1	6.8§	10	11	7	13	nw.	Victor T. Malloure
Clearwater Dam	Wayne	648	2	29.8	......	67	8	2	24	2	4.51	......	3.94	31-1	*1.0*	5	10	5	16	n.	U. S. Engineer Office
Crystal City	Jefferson	420	14	27.6	− 3.8	66	9	−17	24	14	1.79	−0.50	2.77	31-1	6.3	4	11	6	14	nw.	Richard K. Ragland
Doniphan	Ripley	344	44	30.2	− 5.6	68	8	0	24	44	2.48	−1.62	1.82	31-1	2.2§	7	16	6	9	nw.	Boyce Lackey
Farmington	St. Francois	896	37	26.6	− 6.0	65	8	− 5	23†	51	4.76	+1.62	3.34	31-1	12.1	7	11	7	13	sw.	F. M. Karsch
Greenville ...1 mile SW	Wayne	415	39	29.3	− 5.7	65	8	1	24	41	4 38	+1.06	3.70	31-1	3.0	8	5	17	9	w.	Beuford Shoemake
Jackson	Cape Girardeau	428	57	27.7	− 6.1	63	8	− 1	28	58	2.34	−1.60	1.53	31-1	3.8	7	7	12	12	s.	Danny Siebert
Koshkonong	Oregon	958	47	30.8	− 5.7	68	8	0	28	48	4.16	+0.54	3.47	31-1	4.4§	7	13	5	13	w.	Mrs. Genevieve T. Smith

Continued on next page

Climatological Data for January 1948—Continued from preceding page

Stations	Counties		Temperature, in degrees, Fahr.							Precipitation, in inches						Number of days					
		Elevation, feet	Length of record, years	Mean	Departure from the normal	Highest	Date	Lowest	Date	Length of record, years	Total	Departure from the normal	Greatest in 24 hours[4]	Date	Total snowfall, unmelted	With precip., .01 inch or more	Clear	Partly cloudy	Cloudy	Prevailing direction of wind	Observers
Southeastern Division—	*Concluded*																				
Licking...... 4 miles N	Texas	1,170	11	27.8	− 5.3	63	8	− 4	28	11	3.91	+1.94	3.35	31-1	4.8§	5	12^{c}	2^{c}	14^{c}	n.	Fern E. Austin
Marble Hill	Bollinger........	532	53	26.7	− 7.9	59	8†	0	18†	55	2.13	−1.74	1.19	31-1	6.5§	5	11	14	6	s.	R. A. DeWitt
Poplar Bluff...........	Butler	339	43	30.8	− 5.2	63	8†	3	28	44	2.35	−2.07	1.70	31-1	2.5	7	13	6	12	nw.	Osmon M. Richardson
Rolla..................	Phelps..........	1,202	48	25.2	− 6.7	63	8	− 6	23†	64	2.80	+0.34	2.60	31-1	10.5§	4	9	19	3	n.	Rolla School of Mines
St. Louis:																					
City Office	....	465	111	26.6	− 4.5	65	8	1	28	111	0.94	−1.40	0.17	1†	7.1	7	7	11	13	n.	**Section Center**
St. Louis Airport....	St. Louis	556	11	25.5	− 4.3	68	8	− 6	28	17	0.85	−1.41	0.19	30-31	7.4	5	3	12	16	nw.	U. S. Weather Bureau
St. Louis University.	St. Louis City...	578	36	26.8	− 5.2	65	8	1	28	36	0.97	−1.63	0.31	22	7.6	8	14	8	9	n.	St. Louis University
Salem	Dent............	1,206	44	27.6	− 5.0	64	8	−11	24	47	1.27	−1.45	1.05	31-1	7.3	4	15	6	10	n.	E. E. Martin
Sikeston..............	Scott	318	41	28.0	− 9.0	63	8	1	28†	51	3.88	−0.98	2.92	31-1	4.7§	8	12^{a}	11^{a}	7^{a}	n.	Mrs. Lucy W. Humphreys
Union ....1½ mi. SE	Franklin	520	10	25.6	− 7.8	68	9	−17	24	31	2.37§	+0.05	1.78	31-1	*6.5*	7	15	6	10	nw	Cornelius Sieges
Vichy ....2 mi. NW	Maries...........	1,125	12	24.6	......	66	8	− 8	23	13	1.53	......	1.13	1	12.9	5	7	13	11	nw.	Civil Aeronautics Adm.
Wappapello Dam......	Butler	475	9	28.2	− 5.8	63	8	2	28	9	3.67	+0.99	2.95	31-1	2.1	8	13	6	12	nw.	U. S. Engineer Office
Webster Groves	St. Louis	507	2	26.4	......	68	8	− 5	28	3	1.76	......	1.27	31-1	5.7	5	15	3	13	nw.	R. W. Lawric
Weingarten	St. Genevieve ...	833	7	25.9	......	61	8†	− 5	28	8	3.42§	......	2.40	31-1	11.0§	7	6	16	9	n.	William J. Miller
West Plains	Howell	1,005	11	27.4	− 6.6	68	8	− 1	24	11	0.89	−2.09	0.29	11-12	6.8	8	7	11	13	n.	U. S. Weather Bureau
Willow Springs 500 ft E	Howell	1,238	7	28.5	......	67	8	1	23†	41	4.51	+1.33	3.57	31-1	6.8§	7	12	8	11	n.	Allen Frazee
Cairo, Ill.	Alexander, Ill...	314	76	29.2	− 5.7	62	8	3	28	77	1.55	−2.21	0.57	11-12	5.0	10	6	8	17	ne.	U. S. Weather Bureau
Division means	**and extremes**	.....	..	27.8	− 6.1	68	8†	−18	24	..	3.39	+0.16	4.35	31-1	6.5	7	10	9	12	n.	
State means	**and extremes**	.....	..	25.7	− 5.2	73	8	−22	23	..	2.24	−0.06	4.35	31-1	7.5	6	12	9	10	nw.	

The departures from normal temperature are computed from the averages of the entire period for stations having 10 or more years of record. Departures of precipitation for stations with 15 years or more of record are computed from a normal or "standard mean", adjusted to a uniform 35-year period; for stations of 10 to 14 years the means for the period of record are used. The normal may be found by adding the departures when minus (−) or subtracting when plus (+). Figures and letters following stations indicate distance in miles and direction of station from the city Post Office, unless otherwise indicated. T. Trace or 0.005 inch or less. ^{a}, ^{b}, ^{c}, etc., number of days missing; for example, ^{b}, indicates two days missing. Italics data interpolated. § Partly interpolated. † And other dates. ‡ Received too late to be included in means and summaries. [4] Best available used for stations not equipped with recorders. Post office address of: Altona is Adrian; Clearwater Dam is Piedmont; Crane Mountain is Arcadia; East End is Goodland; Hailey is Cassville; High Lookout is Birch Tree; Macedonia Lookout is Doniphan; Oates Tower is Centerville; Perry is Center; Pineview Lookout is Cape Fair; Sugar Camp Lookout is Seligman; Topaz is Cabool; Wilderness Lookout is Lampe. (C) Airport. ¶ Indicates plus.

(Continued from page 1)

Very little field work was accomplished during the month, except in the more southern counties of the Southeastern Division where some plowing was done and some cotton was picked during the mild weather that prevailed most of the first half of the month. Wheat apparently withstood the ice and sleet storm without any serious effects and it was in good to excellent condition at the close of the month although dormant and frozen. Over most of the State an adequate snow cover protected the wheat crop during the cold weather the last ten days of January. Livestock were in feed lots and on dry feed throughout most of the month, very little grazing or foraging being possible because of muddy or snow-covered fields and pastures. Low temperatures the latter part of the month, particularly in the northern half of the State, were believed to have damaged peach buds. A serious shortage of water supplies was reported from some localities in the Southwestern Division, while most of the State was becoming rather dry and more moisture was needed to replenish water supplies, generally, as the month closed.—M, R. W.

TEMPERATURE

The monthly mean for the State, 106 stations reporting, was 25.7°, or 5.2° below the 61-year January average. The highest monthly mean was 32.8° at Caruthersville, and the lowest was 17.6° at Unionville. The highest reported was 73° at Ozark Beach on the 8th, and the lowest was 22° below zero at Maryville on the 23d.

PRECIPITATION

The average for the State, 213 stations reporting, was 2.24 inches, or 0.06 inch less than the 61-year January average. The greatest monthly amount was 5.73 inches near Annapolis, and the least was 0.25 inch at Joplin Airport. The greatest amount reported in 24 hours was 4.35 inches near Annapolis on December 31st-January 1st. The average number of days with 0.01 inch, or more, was 6.

Snowfall averaged 7.5 inches, or 3.1 inches more than the 57-year January average. The greatest monthly snowfall reported was 21.3 inches near Black.

MISCELLANEOUS PHENOMENA

Dust.—Locally, on 15th at Amity, Browning and Tarkio.

Floods.—In Black River, at Poplar Bluff, 2d to 6th. In Meramec River, 2d to 3d. In St. Francis River, at Fisk, 3d to 13th.

Fogs.—Heavy, 1st, 2d, 5th, 8th, 10th, 25th, 29th, 30th, 31st.

Glaze.—1st, 2d, 4th, 11th, 29th, 30th, 31st. (See special storm table).

Sleet.—1st, 3d, 4th, 11th, 12th, 20th, 21st, 22d, 26th, 29th, 30th, 31st, (See special storm table).

Windstorms.—1st. (See special storm table).

ERRATA

July 1947, page 55: Mean maximum temperature at Joplin Airport should be 89.5.
September 1947, page 66: Number of partly cloudy days at Warsaw should be 8.

Daily Precipitation for January 1948

Stations	Drainage-basins	Day of month																															Total
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Northern Division																																	
Albany	Grand	.95	....	....	....	....	....	....	....	....	....	....	*T.*	....	....	....	....	....	....	T.	....	....	*.20*	....	....	....	*.05*	....	....	....	.01	.01	§1.22
Amity	do	1.25	....	....	....	....	....	....	....	....	....	T.	T.	T.	....	....	....	....	T.	.01	....	....	.09	....	....	T.	.05	....	....	....	.09	.01	1.50
Auxvasse	Missouri	1.47	....	....	....	....	....	....	....	....	....	T.	....	T.	....	....	....	....	....	T.	....	....	.13	....	....	....	.10	T.	....	....	.06	.10	1.86
Bethany	Grand	1.23	....	....	....	....	....	....	....	....	....	....	....	T.	*T.*	....	....	....	....	T.	....	....	.12	....	....	....	.01	....	....	....	.02	*T.*	1.38
Bowling Green[2]	Mississippi	*	1.35	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	*.20*	....	....	....	.07	....	....	....	.07	§1.69
Brookfield[2]	Grand	.28	.82	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.05	....	....	.10	.08	....	....	....	....	....	....	....	.14	1.47
Browning 3 mi. NE	do	1.58	....	....	....	....	T.	....	....	....	....	T.	T.	.01	....	T.	....	....	....	.01	....	....	.14	....	....	T.	.02	....	....	....	.01	.03	1.80
Brunswick[2]	do	1.23	.25	....	....	....	....	....	....	....	....	....	....	....	T.	....	....	....	....	.02	....	....	.04	.05	....	....	....	.05	....	....	.05	.08	1.77
Canton, Lock No. 20[2]	Mississippi	.84	.71	....	....	....	....	....	....	....	....	....	T.	....	T.	....	....	....	....	.01	....	T.	T.	....	....	....	....	.03	....	....	....	.05	1.64
Carrollton	Missouri	1.00	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.03	....	....	.15	....	....	....	.10	T.	....	....	.10	.05	1.43
Centralia[2]	Mississippi	.86	1.20	....	....	....	....	....	....	....	....	....	....	....	*T.*	....	....	....	....	*T.*	....	....	*	.12	....	....	....	.07	....	.02	....	.11	2.38
Chillicothe[2] (B)	Grand	.85	.37	....	....	....	....	....	....	....	....	....	....	....	T.	....	....	....	....	T.	....	....	.06	.01	....	....	....	.02	....	....	T.	.12	1.43
Chillicothe[3] 2mi ESE (C)	do	.91	....	T.	....	....	....	....	....	....	....	T.	....	T.	....	....	....	....	.04	T.	....	....	.16	....	....	....	.03	....	....	....	.14	.02	1.30
Columbia[1, 5]	Missouri	.77	T.	....	....	T.	....	....	....	....	....	T.	T.	T.	T.	....	....	....	.02	.01	....	....	.11	....	....	....	.10	T.	....	T.	.06	.08	1.15
Columbia[5] 9 mi. WNW	do	.76	....	....	....	....	....	....	....	....	....	T.	....	T.	....	....	....	....	....	T.	....	....	.11	....	....	....	.08	T.	....	....	.04	.05	1.04
Conception	do	.90	....	....	....	....	....	....	....	....	....	....	*T.*	....	....	....	....	....	....	.03	....	....	.17	....	....	T.	.03	....	....	....	.04	....	1.17
Edgerton[2]	do	.96	.43	....	....	....	....	....	....	....	....	....	....	*T.*	....	....	....	....	....	.03	....	....	.03	*T.*	....	....	T.	.04	....	....	.02	.22	1.73
Edina[2]	Mississippi	.90	.75	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	T.	.05	....	....	....	T.	....	....	....	.05	1.75
Elsberry S. C. S.[2]	do	1.54	.09	....	....	....	....	....	....	....	....	....	....	....	T.	....	....	....	....	....	....	....	.04	.03	....	....	....	.08	....	....	T.	.11	1.89
Fayette	Missouri	.88	....	....	....	....	....	....	....	....	....	T.	....	T.	....	....	....	....	....	T.	....	....	.12	....	....	....	.09	....	....	....	.02	.09	1.20
Fulton[2]	do	.57	.87	....	....	....	....	....	....	....	....	....	....	*T.*	....	....	....	....	....	.01	....	....	.11	.06	....	....	....	.12	....	....	.01	.06	1.81
Gallatin[2]	Grand	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Grant City	do	.51	....	....	....	....	....	....	....	....	....	T.	T.	....	....	....	....	....	....	T.	....	....	.09	....	....	....	T.	....	....	....	T.	T.	0.60
Hannibal[1] (A)	Mississippi	1.26	....	....	....	....	....	....	....	....	....	T.	....	*T.*	....	....	....	....	*T.*	*T.*	....	....	.03	....	....	....	.04	....	....	....	*T.*	.05	1.38
Hannibal[2] (B)	do	.65	.35	....	....	....	....	....	....	....	....	....	....	....	T	T.	....	....	....	T.	....	T.	T.	....	....	....	....	T.	....	....	....	.12	1.12
Kahoka[2]	do	.90	.35	....	....	....	....	....	....	....	....	....	....	*T.*	T.	....	....	....	....	.01	....	....	....	....	....	....	....	T.	....	....	....	T.	1.26
Kansas City Airport[1, 5]	Missouri	.38	....	....	....	....	....	....	....	....	....	T.	....	T.	....	....	....	....	.01	....	....	T.	.01	....	....	....	.06	....	T.	.01	.06	T.	0.53
Kidder[2]	Grand	.62	.42	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.01	....	....	.13	....	....	....	....	.01	....	....	....	.11	1.30
King City	Missouri	.68	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.09	....	....	.12	....	....	....	.02	....	....	....	.16	.03	1.10
Kirksville	Mississippi	.93	....	....	....	....	....	....	....	....	....	....	*T.*	*T.*	....	....	....	....	....	....	....	....	*.10*	....	....	....	.04	....	....	....	....	*.06*	§1.13
Kirksville Airport[3, 5]	do	.71	....	....	....	....	....	....	....	....	....	T.	T.	T.	T.	T.	....	....	T.	.01	....	....	.07	....	....	T.	.04	T.	....	....	T.	.01	0.84
LaBelle[2]	do	1.05	.70	....	....	....	....	....	....	....	....	....	....	....	*T.*	....	....	....	....	....	....	....	....	....	....	....	....	T.	....	....	....	....	1.75
Lathrop	Grand	1.42	....	....	....	....	....	....	....	....	....	....	....	*T.*	....	....	....	....	T.	....	....	....	.10	....	....	....	.10	....	....	....	.05	....	1.67
Linneus	do	.87	....	....	....	....	....	....	....	....	....	T.	....	T.	....	....	....	....	....	*.03*	....	....	.09	....	....	....	.03	....	....	....	.03	.07	§1.12
Louisiana (A)	Mississippi	1.15	....	....	....	....	....	....	....	....	....	....	....	*T.*	....	....	....	....	....	....	....	....	.12	....	....	....	.06	....	....	....	....	.13	1.46
Louisiana[2] (B)	do	.78	.54	....	....	....	....	....	....	....	....	....	....	....	T.	....	....	....	....	T.	....	....	T.	.02	....	....	....	.04	....	....	....	.11	1.49
Lucerne[2]	Grand	*20*	.70	....	....	....	....	....	....	....	....	....	....	T.	T.	....	....	....	....	T.	....	....	*.10*	T.	....	....	*.01*	T.	....	....	....	*.02*	§1.03
Macon[2]	Chariton	.88	.50	....	....	....	....	....	....	....	....	....	....	*T.*	....	....	....	....	....	T.	....	....	*	.08	....	....	....	.04	....	....	....	.10	1.60
Madison[2]	Mississippi	1.30	.25	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.09	....	....	....	.04	....	....	....	.12	1.80
Martinsburg[2]	Missouri	.66	1.13	....	....	....	....	....	....	....	....	....	....	....	T.	....	....	....	....	T.	....	....	.08	.04	....	....	....	.08	....	....	.01	.08	2.08
Maryville	do	1.16	....	....	....	....	....	....	....	....	....	....	T.	T.	....	....	....	....	....	.02	....	....	.15	....	....	....	.02	....	....	....	T.	.04	1.39
Memphis[2]	Mississippi	.80	.43	....	....	*.08*	....	....	....	....	....	....	....	....	....	....	....	....	....	T.	....	....	*.03*	....	....	....	....	*.02*	....	....	....	T.	§1.36
Mexico[2]	do	.46	.81	....	....	....	....	....	....	....	....	....	....	....	T.	....	....	....	....	T.	....	T.	.08	.02	....	....	....	.05	....	....	T.	.10	1.52
Milan[2]	Grand	.30	.65	....	....	....	....	....	....	....	....	....	....	....	T.	....	....	....	....	T.	....	....	*.10*	*.10*	....	....	....	.25	....	....	....	.04	§1.44
Moberly[2] ‡ 3½ mi. NE	Mississippi	*	*1.52*	....	....	....	....	....	....	....	....	....	....	*T.*	....	....	....	....	....	T.	....	....	*	.15	....	....	.05	....	....	....	.04	.13	§1.89
Monroe City	do	1.56	....	....	....	....	....	....	....	....	....	T.	....	T.	....	....	....	....	....	T.	....	....	*.12*	....	....	....	.02	....	....	....	T.	*.18*	§1.88
New Florence[3, 5] 1 mi SE	Missouri	.66	T.	....	....	....	....	....	....	....	....	T.	T.	T.	T.	T.	....	....	T.	T.	....	T.	.08	....	....	....	.09	T.	....	....	.02	.03	0.88
Oregon[1]	do	.48	....	....	....	....	....	....	....	....	....	....	T.	....	....	....	....	....	T.	....	....	*.15*	....	....	T.	T.	....	....	....	....	*.16*	....	§0.79
Palmyra[2]	Mississippi	.97	.17	....	....	....	....	....	....	....	....	....	*T.*	....	T.	....	....	....	....	T.	....	....	T.	*.05*	....	....	....	T.	....	....	....	*.10*	§1.29
Paris[2]	do	.80	*.80*	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.04	.02	....	....	....	.03	....	....	....	*.15*	§1.84
Perry 1 mile E	do	.45	....	....	....	....	....	....	....	....	....	....	....	*T.*	....	....	....	....	....	....	....	....	.10	....	....	....	*T.*	....	....	....	....	.30	0.85
Philadelphia	do	.99	*T.*	....	....	....	....	....	....	....	....	....	....	*T.*	....	....	....	....	....	....	....	....	*.15*	....	....	....	T.	*T.*	....	....	....	*.12*	§1.26
Polo[2]	Missouri	.97	.32	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.04	....	....	.07	....	....	....	....	.06	....	....	.01	.15	1.62
St. Charles[2]	do	1.85	.35	....	T.	....	....	....	....	....	....	....	T.	....	.01	....	....	....	....	.01	....	....	.05	.09	....	....	....	.15	....	....	....	.18	2.69
St. Joseph Airport[1, 5]	do	.30	....	T.	....	....	....	....	....	....	....	....	T.	T.	....	....	....	....	.04	T.	....	.02	.07	....	T.	T.	.02	....	....	T.	.14	T.	0.59
Salisbury	Chariton	1.06	....	....	....	....	....	....	....	....	....	*T.*	....	T.	....	....	....	....	....	T.	....	....	.13	....	....	....	.04	T.	....	....	.11	.05	1.39
Saverton, Lock No. 22[2]	Mississippi	.80	.38	....	T.	....	....	....	....	....	....	....	T.	....	T.	....	....	....	....	.01	....	....	.03	T.	....	....	....	.04	....	....	T.	.06	1.32
Shelbina	do	1.72	....	....	....	....	....	....	....	....	....	T.	....	*T.*	....	....	....	....	....	T.	....	....	.07	....	....	....	.05	....	....	....	*.03*	.08	§1.95
Shelbyville	do	1.18	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	*.15*	....	....	....	....	....	....	....	....	*.12*	§1.45
Steffenville	do	1.60	....	....	....	....	....	....	....	....	....	....	....	....	T.	....	....	....	....	....	....	....	.03	....	....	....	.03	....	....	....	....	*.08*	§1.74
Tarkio[3]	Missouri	.16	....	....	....	....	....	....	....	....	....	....	T.	T.	....	....	....	T.	.01	T.	....	T.	.09	....	T.	T.	T.	....	....	....	.01	T.	0.27
Trenton[2]	Grand	1.02	1.00	....	....	....	....	....	....	....	....	....	....	T.	.01	....	....	....	....	.01	....	....	.05	.09	....	....	....	.05	....	....	T.	.05	2.28
Troy[2]	Mississippi	1.25	.25	....	....	....	....	....	....	....	....	....	....	....	T.	....	....	....	....	T.	....	T.	*.07*	*.12*	....	....	....	*.12*	....	....	....	*.08*	§1.89
Unionville[2]	Chariton	.64	1.21	....	....	....	....	....	....	....	....	....	....	....	*T.*	*T.*	....	....	....	.01	....	....	.08	....	....	....	....	.02	....	....	T.	.01	1.97
Vandalia	Mississippi	1.13	....	....	....	....	....	....	....	....	....	T.	....	T.	....	....	....	....	....	T.	T.	....	.20	....	....	....	.10	....	....	....	....	*.20*	§1.63
Warrenton	do	.90	T.	....	....	....	....	....	....	....	....	....	....	T.	*T.*	....	....	....	....	T.	....	....	.07	....	....	....	.11	.03	....	....	T.	.09	1.20
Keokuk, Iowa[1]	do	.63	....	T.	....	....	....	T.	....	....	T.	T.	....	.01	T.	....	....	....	T.	.02	T.	.01	T.	....	....	....	.02	....	....	....	T.	.01	0.70
Southwestern Division																																	
Altona[2]	Osage	.80	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	T.	.13	....	....	*	.04	0.97
Anderson[2] 1½ mi. SW	Neosho	*	1.90	....	....	....	....	....	....	....	....	....	.20	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	*T.*	*T.*	2.10
Appleton City	Osage	.40	.42	....	....	....	....	....	....	....	....	....	....	T.	....	....	....	....	....	....	....	....	T.	....	....	....	.13	T.	....	....	T.	.06	1.01
Ava Ranger Station[2]	White	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Bolivar	Osage	.36	T.	....	....	....	....	....	....	....	....	T.	T.	....	T.	....	....	....	....	....	....	....	T.	....	....	....	.05	....	....	....	.01	.04	0.46
Boonville[2] (A)	Missouri	1.33	.25	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.16	....	....	....	T.	.11	....	....	.03	.12	2.00
Boonville[2] (B)	do	1.34	.23	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	T.	....	....	.05	.07	....	....	....	.06	....	....	.04	.07	1.86
Bradleyville[2]	White	3.25	T.	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.01	....	T.	....	....	....	.01	3.27
Buffalo[2]	Osage	1.30	.21	....	....	....	....	....	....	....	....	....	T.	....	....	....	....	....	....	....	....	....	....	T.	....	....	T.	.06	....	....	....	.09	1.66
Butler	do	.60	T.	....	....	....	....	....	....	....	....	....	....	T.	T.	....	....	....	T.	....	....	....	T.	....	....	....	.11	.01	....	....	.04	.03	0.79
Camdenton	do	3.00	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.02	....	....	....	*.17*	....	....	....	....	*.25*	§3.44
Caplinger Mills[2]	do	1.23	.06	....	....	....	....	....	....	....	....	....	T.	....	....	....	....	....	....	....	....	....	....	....	....	....	T	.08	....	....	....	.03	1.40
Carthage	Neosho	1.11	....	....	....	....	....	....	....	....	....	....	.05	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	*T.*	*T.*	1.16
Cassville[2]	White	2.25	.04	....	....	....	....	....	....	....	....	....	.09	....	*T.*	....	....	....	....	....	....	....	....	.05	....	.03	....	.03	....	....	....	.02	2.51
Chadwick[2]	do	3.40	.65	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	T.	....	....	....	T.	....	....	....	.05	4.10
Clinton[3]	Osage	.14	....	....	....	....	....	....	....	....	....	....	....	T.	....	....	....	....	T.	....	....	....	T.	....	....	....	.11	....	....	....	.06	.04	0 35
Concordia	Missouri	.55	....	....	....	....	....	....	....	....	....	T.	....	....	....	....	....	....	....	T.	....	....	.07	....	....	....	.05	....	....	....	.10	.12	0.89
Crocker	Osage	1.22	....	....	....	....	....	....	....	....	....	T.	....	*T.*	*T.*	....	....	....	....	....	....	....	.06	....	....	....	.08	....	....	....	*	.10	1.46
Eldon	Missouri	.77	....	....	....	....	....	....	....	....	....	.02	....	T.	....	....	....	....	....	.02	....	....	.06	....	....	....	.16	T.	....	....	T.	.06	1.09
Eldorado Springs	Osage	*.20*	....	....	....	....	....	....	....	....	....	T.	....	....	....	....	....	....	....	....	....	....	T.	....	....	....	.12	....	....	....	T.	.04	§0.36
Elijah[2]	White	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Forsyth[2]	do	2.60	.02	....	....	....	....	....	....	....	....	....	.15	....	....	....	....	....	....	....	....	....	....	.03	....	.02	T.	.03	....	....	....	.01	2.86
Galena[2]	do	2.29	.12	....	....	....	....	....	....	....	....	....	.08	....	*T.*	....	....	....	....	....	*T.*	....	....	.06	....	.02	....	.02	....	....	....	.03	2.62
Granby[2]	do	2.63	.07	....	....	....	....	....	....	....	....	....	.10	*T.*	....	....	....	....	....	....	....	....	....	.02	....	T.	....	T.	....	....	....	.03	2.85
Hailey	do	.21	T.	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.02	.03	T	....	....	T.	T.	.03	0.29
Harrisonville[2]	Osage	.89	.06	....	....	....	....	....	....	....	....	....	....	....	....	*T.*	....	....	....	T.	....	....	....	....	....	....	*	.10	....	....	*	.12	1.17
Jefferson City[2] (A)	Missouri	.71	.06	....	....	....	....	....	....	....	....	....	T.	....	T.	....	....	....	....	.01	....	....	.07	.03	....	....	....	.42	....	....	....	.05	1.35
Jefferson City[2] (B)	do	1.41	.25	....	....	....	....	....	....	....	....	....	T.	....	T.	....	....	....	....	.02	....	....	.05	.01	....	....	....	.20	....	....	....	.08	2.02
Joplin Airport[3]	Neosho	.14	....	....	....	....	....	....	....	....	....	.05	T.	T.	T.	....	....	....	....	....	....	....	.02	....	T.	T.	T.	T.	....	....	.04	T.	0 25
Kansas City University	Missouri	.60	T.	....	....	....	....	....	....	....	....	....	....	....	T.	....	....	....	....	.01	....	....	T.	....	....	....	.04	T.	....	....	.05	T.	0.70
Lakeside[2, 5]	Osage	1.90	.20	....	....	....	....	....	....	....	....	....	T.	....	T.	....	....	....	....	.02	....	....	.06	.02	....	T.	T.	.16	....	....	T.	.10	2.46
Lamar[2]	Neosho	1.24	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	T.	....	....	....	....	.04	1.28

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Stations	Drainage basins	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Total
Southwestern Division—	*Concluded*																																
Lebanon	Osage	1.18										T.	.05		T.								.02				.08				T.	.06	1.39
Lexington[2]	Missouri	.90	.06												*T.*					.02			.03	T.				.07			.01	.08	1.17
Lockwood	Osage	.81										T.	T.	T.													.05				T.	.06	0.92
Mansfield[2]	White	2.45	.30										.15									T.		T.		T.						.08	2.98
Marshall	Missouri	*	.90									T.							T.	T.			.10				*	.09			.04	.05	1.18
Marshfield	White	.78	.01									T.	.09		T.								.02			*T.*	.01	T.			T.	.05	0.96
Monett[2]	Neosho	1.95	T.										.10		T.									.06		.03		T.				.03	2.17
Mountain Grove[2]	Gasconade	3.20	.10										.16											.01		T.		.01				.04	3.52
Mount Vernon[2]	Neosho	2.55	1.10										.07		T.									.04			T.	*T.*			T.	.08	3.84
Neosho	do	.55										T.	.09	T.									.03	*T.*		T.	.01			.01	.01	.01	0.71
Nevada	Osage	.48										T.		T.									T.				.11				.02	.02	0.63
Osceola[2]	do	1.52	.15										T.										*.05*				T.	.12				.05	§1.89
Ozark[2]	White	2.20	.06										.12	T.												.03						.06	2.47
Ozark Beach[2]	do	2.03											.18														.05	.02					2.28
Pierce City	Neosho	.70											.08	T.	T.								.05			T.	T.				T.	.04	0.87
Pineview Lookout[2]	White	2.25	.02										.09										.05			.03						.02	2.46
Pleasant Hill[2]	Osage	.40	.52																	T.			T.	T.				.06			.02	.08	1.08
St. Thomas[2]. 2¼ mi SW	do	1.85	.30																	T.			.10	.10				*.18*			T.	*.11*	§2.64
Sedalia	Missouri	.97																		.01			.03				.11	.02			.02	.10	1.26
Seligman[2]	Neosho	2.15	T.																		T.				T.			.10					2.25
Seymour[2] ..... 4 mi. E	White	2.04	.31										T.		T.								.05									.15	2.55
Shell Knob[2]...3 mi. SE	do	3.00	T.									.08									T.		T.			.02		.02				T.	3.12
Springfield[1,5]. 4 mi. NW	Osage	.22										.09	.02	T.	T.								.01		T.	.01	T.	T.		T.	.07	.02	0.44
Stover[2]	Missouri	1.26	*.23*																	T.			T.	.04				.19				.08	§1.80
Sugar Camp Lookout[2]‡	White	3.50	.02										.02											.03		.02		*.05*				*.03*	§3.67
Sweet Springs	Missouri	.92	T.									T.								.02			.12				.09				.03	.15	1.33
Tecumseh[2]...¼ mi. W	White	3.22	.53										.20	.15								.06				.04		.06					4.26
Topaz[2]	do	3.60	.24											.30							*T.*		*T.*				*T.*	*T.*				*.05*	§4.19
Vanzant[2]....3¾ mi. SE	do	3.80	.79										.32								*T.*		*T.*		.01			.02				.04	4.98
Waco[2]	Spring	1.71	T.											T.										T.				.01			T.	.04	1.76
Warrensburg	Missouri	.76																		.02			T.				.10	T.			.03	.08	0.99
Warsaw (A)	Osage	.56	.15									T.			T.				T.				T.				*	.16			T.	.10	0.97
Warsaw[2] (B)	do	1.34	.11																	T.			T.				T.	.14				.09	1.68
Wasola[2]	White	3.64	*T.*										.22								.01	T.		.08		.02		.06				.04	4.07
Waverly[2]	Missouri	.67	.15									T.								.04			.10					.08	T.		.04	.12	1.20
Waynesville...1½ mi. E	Gasconade	2.23											*T.*	T.									*.06*		T.	*T.*	*.08*				*	*.10*	§2.47
Weaubleau[2]	Osage	*	1.15											*T*													.05					.03	1.23
Wilderness Lookout[2]	White	3.15	*T.*										.14	.02								*T.*		T.			*T.*	.02					3.33
Southeastern Division																																	
Advance[2].....½ mile W	St. Francis	.25										.16	.34								T.		.03				.04	.01			T.	.05	0.88
Alton.......10 miles SE	Black																																
Annapolis[2].....7 mi. W	do	4.35	.42										.85	.03	T.							.02		.02				T.				.04	5.73
Arcadia[2]	St. Francis	4.00	.55										.47		.02									.22								T.	5.26
Belleview[2]	Meramec	3.41	.57										.25	T.	.02						T.		*	.23				*.06*			.03	.05	§4.62
Bernie[2]	St. Francis	2.81	.11								.03		.53	.27										.08		.14	T.	.27					4.29
Birch Tree[2] ...½ mile E	Black	3.84											*	.25								.03		.06				.03				*.05*	§4.26
Black...... 9 miles NW	do	*	4.00										.27	*.04*	*T.*								*.20*	*T.*			*	*.18*				*.15*	§4.84
Bloomfield[2]	St. Francis	3.24	.06										.32	.13	T.							.03		.01			T.	.04				.10	3.93
Bunker[2]... 4 miles NW	Black	3.30	.60										.50		.05									.15						.03			4.63
Campbell	St. Francis	1.52										T.	.75		T.			T.			T.		.05			.01	.01	.08		T.	T.	.10	2.52
Cape Girardeau....(A)	Mississippi	2.39	.09										.40								T.		.15				T.	.08				.07	3.18
Cape Girardeau[2]...(B)	do	3.30	.03	T.									.30	.06	T.							.02	T.	.20			T.	.04				.02	3.97
Caruthersville[2]	do	2.54	.10							T.			.38	.27	T.			.03				T.		.15		.02	.02	.34	T.		.06	T.	3.91
Centerville(1)[2]	Black	3.47	.15										.45									T.		.10								.06	4.23
Centerville(2)[2]	do	3.41	.43										.44	T.	.01						.01			.09				.01				.03	4.43
Clearwater Dam[2]	do	3.94	.06										.45	.02	T.							.04		T.				T.				T.	4.51
Cook Station[2]	Meramec	3.05	*.30*												*.06*								*	*.12*				.09				.09	§3.71
Crane Mountain[2]	St. Francis	3.95	.14										.58									.03		.13								.06	4.89
Crystal City	Mississippi	1.42	T.											T.	T.								.20				.07					.10	1.79
Cuba	Meramec	1.94										T.		T.	T.								.18				.09					.05	2.26
Deering[2]	St. Francis	2.02	T.							.04			.44	.24	T.			T.						.20		T.		.21				.05	3.20
De Soto	Mississippi	1.47	T.												T.								.22				.10	*T.*				.06	1.85
Dexter[2]	St. Francis	3.04	.09										.38	.22								T.		.05		T.	.03	.12				T.	3.93
Doniphan(1)	Black	1.82											.52								.02		.05			T.	.01	.04			T.	.02	2.48
Doniphan(2)[2]	do	3.42	.07										.35	.13								T.		.06		T.		.10				.06	4.19
East End[2]	Meramec	2.88	1.05										.10											T.	.30							.10	4.43
Ellington[2]	Black	4.13	.29										.56	.03	*.02*						*.10*			*.03*				*.04*				*.03*	§5.23
Ellsinore	do	1.45	*T.*										.42		T.						.02		.02				T.	.04				.03	1.98
Farmington[2]	St. Francis	3.34	.76										.35	T.	.02							T.	T.	.21				.06				.02	4.76
Fisk[2]	do	2.85	T										.33	T.	T.						T.	T.	T.	.05	T.	T.	T.	.05			T.	.07	3.35
Fredericktown[2]	do	3.98	.32										.54									.03		.30				.04				.03	5.24
Gerald	Meramec	1.17												*T.*						*T.*			*.20*	*.06*			*.15*				*T.*	.15	§1.73
Greenville[2] .. 1 mi. SW	St. Francis	3.70	.02										.43	.08	T.							.03		.03				.04				.05	4.38
Hermann[2]	Missouri	1.32	1.25												T.					.03			.06	.05				.15				.10	2.96
High Lookout	Black	1.79	T.										.30		T.						.03		.10				.03	.02				.04	2.31
Jackson	Mississippi	1.53	T.										.55	T.	T.						.03		.16	T.			.02	.02				.03	2.34
Jerome[2]	Gasconade	*	1.68										T.		T.								*.03*	.08				.09				.07	§1.95
Koshkonong[2]	Black	3.47	T.										.38	.03								.03		.06		T.		.14			*T.*	.05	4.16
Leeper[2]	do	4.21	.05										.42	.02	T.							.03		.02				.03				.03	4.81
Licking[2]	Gasconade	3.35	.45																					.07				.02				.02	3.91
Macedonia Lookout[2]	Black	3.51	.03										.40	.03	T.							T.		*.03*		T.		.07			*.02*	T.	§4.09
Marble Hill	Mississippi	1.19											.29								*T.*		.25					.12				.28	2.13
Morehouse	do	2 70	*T.*										.59								T.		.07		T.		.03	.07			T.	.07	3.53
Moselle[2]	Meramec	2.01	.31												*T.*								*T.*	*.15*				*.06*				*.15*	§2.68
New Madrid[2]	Mississippi	3.27	.03										.47	.26										.14		T.	T.	.23			.14	.07	4.61
Oates Tower[2]	Black	3.10	.46										.42		T							T.		.10				.03				.04	4.15
Owensville[2]	Gasconade	2.40	.33												*.02*								*.15*	*.05*				*.15*				*.25*	§3.35
Pacific[2]	Meramec	2.56	*.40*												*.02*								*.06*	.07			T.	.14				.04	§3.29
Parma[2]	St. Francis	2.83										.60	.14											.10		T.	T.	.15			.08	.05	3.95
Perryville	Mississippi	2.89	.03											.32									.25									.08	3.57
Poplar Bluff[2]	Black	1.70	.01										.38	.14	T.							T.		.02		T.		.06				.04	2.35
Puxico[2]	St. Francis	2.87	.03										.47	.12	T.							T.		.03	T.	T.	T.	.10				.05	3.67
Qulin[2]	do	3 10	.01										.52	.16								T.		.10		.01	T.	.14			T.	.05	4.09
Reynolds[2]	Black	3.55	.28										.42			.04								.11			T.					.03	4.43
Richwoods[2]	Meramec	2 80	.35												T.								.20	.30				.08				.12	3.85
Rohy	Gasconade	1.54										T.	.10		T.								.04				.03					.04	1.75
Rolla[2]	Meramec	2.60	*T.*												T.								.10	*T.*				.05				.05	2.80
Round Spring[2]	Black	4.18	*.20*										.35																			*.04*	§4.77
St. Louis:																																	
City Office[1,5]	Mississippi	.49	T.									T.	T.	.01	.01					T.		T.	.17				.11				.01	.14	0.94
Airport[3,5]	Missouri	.35	T.		T.							T.	T.	T.	.01					T.		T.	.18				.12	T.			T.	.19	0.85
St. Louis Univ.[1,5]	Mississippi	.28			.01							T.	T.	.01	.01					T.		T.	.31				.15				.12	.08	0.97
Washington Univ.[2]	do	1.62	.38												.01								.10	.05				.11				.09	2.86
Salem	Meramec	1.05											.05		T.								.06				T.					.11	1.27

Continued on next page

Daily Precipitation for January 1948—Continued from preceding page

Stations	Drainage-basins	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Total
Southeastern Division —	*Concluded*																																
Sikeston[3]	Mississippi	2.92	T.	....	....	....	....	....	....	....	....	....	.45	.17	....	....	....	....	....	....	....	T.	....	.13	....	T.	.03	.13	....	....	.03	.02	3.88
Siloam Sprgs Lookout[2]	White	3.89	*.40*	....	....	....	.20	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.09	....	....	....	.13	§4.71
Steelville[2] ...2½ mi. NE	Meramec	2.10	1.00	....	....	....	....	....	....	....	....	....	....	....	T.	....	....	....	....	....	....	....	*	.20	....	....	....	*.02*	.01	....	....	*.07*	§3.40
Sullivan[2]	....do	1.36	.78	....	....	....	....	....	....	....	....	....	T.	....	.02	....	....	....	....	....	....	....	.07	.09	....	....	....	.07	....	....	....	.08	2.47
Summersville[2]	Black	3.61	.21	....	....	....	....	....	....	....	....	....	.35	.09	*.03*	....	....	....	....	....	....	*T.*	....	*.04*	....	*T.*	....	*.03*	....	....	....	.08	§4.44
Union[2] ....1½ mi. SE	Meramec	1.78	.23	....	....	....	....	....	....	....	....	....	....	....	.02	....	....	....	....	*T.*	....	....	.10	.03	....	....	....	.06	....	....	T.	*.15*	§2.37
Valley Park[2]	....do	2.10	.20	....	....	....	....	....	....	....	....	....	....	....	T.	....	....	....	....	....	....	....	.12	.07	....	....	....	*.08*	....	....	....	.10	§2.67
Van Buren[2]	Black	4.00	.10	....	....	....	....	....	....	....	....	....	.35	.05	....	....	....	....	....	....	....	....	....	.04	....	....	....	....	T.	....	....	T.	4.54
Vichy[2] ..... 2 miles NW	Meramec	1.13	....	....	....	....	....	....	....	....	....	T.	T.	T.	....	....	....	....	T.	T.	....	....	.11	....	....	....	.14	....	....	T.	.07	.08	1.53
Wappapello Dam[3]	St. Francis	2.95	.01	....	....	....	....	....	....	....	....	....	.44	.10	T.	....	....	....	....	....	....	.01	....	.05	....	T.	....	.07	....	....	....	.04	3.67
Webster Groves	Mississippi	1.27	.12	....	....	....	....	....	....	....	....	*T.*	....	T.	T.	....	....	....	....	....	....	*T.*	.14	....	....	....	.12	T.	....	....	T.	.11	1.76
Weingarten	....do	2.40	.15	....	....	....	....	....	....	....	....	*T.*	.40	*T.*	*T.*	....	....	....	....	....	....	....	.25	....	....	....	*	.10	....	....	....	*.12*	§3.42
West Plains[3]	Black	.41	....	....	....	....	....	....	....	....	....	.06	.23	T.	....	....	....	....	....	....	.04	....	.07	....	T.	.01	.05	T.	....	T.	T.	.02	0.89
Williamsville[2]	....do	3.47	.03	....	....	....	....	....	....	....	....	....	.42	.10	....	....	....	....	....	....	T.	....	....	....	....	....	....	T.	....	....	T.	.12	4.14
Willow Springs[2] 500 ft E	White	3.57	.52	....	....	....	....	....	....	....	....	....	.28	....	....	....	....	....	....	....	....	.02	....	.01	....	....	....	.02	....	....	....	.09	4.51
Winona Ranger Sta.[2]	Black	3.00	1.00	....	....	....	....	....	....	....	....	.27	....	....	T.	....	....	....	....	....	....	....	T.	....	....	....	....	T.	....	....	....	....	4.27
Zalma[2]	Mississippi	3.20	.03	....	....	....	....	....	....	....	....	....	....	....	....	.43	.04	....	....	....	....	.02	....	T.	....	....	....	....	....	....	....	.07	3.79
Cairo, Ill.[1], [5]	....do	.52	T.	....	....	....	....	....	....	....	....	.07	.51	T.	.01	....	....	....	....	....	T.	....	.09	....	....	.04	.09	.05	....	.02	....	.15	1.55
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....

Except as otherwise indicated, amounts are for 24 hours ending late in afternoon. [1] Midnight to midnight. [2] Measured in the morning; for the preceding 24 hours. [3] Data for 24 hours ending 12:30 A. M. (C. S. T.) of following day. [5] Recording gage. T. Trace or 0.005 inch or less. * Included in next measurement. // Windshield on gage. Italics data interpolated. § Partly interpolated. (A) Record from cooperative station gage. (B) Record from river station gage. (C) Airport. ‡ Received too late to be included in means and extremes.

Daily Evaporation (inches), Mean Temperature (F°), and Wind Movement (miles) for January 1948

(See precipitation data in daily precipitation table)

Station	Data	Day of month																															Monthly
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Columbia (Univ. of Mo. Hort. Exp. Sta. 9 mi. WNW.)	Evaporation	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.....
	Mean temperature	28	18	26	34	30	30	40	48	44	30	34	38	24	14	32	23	10	18	24	31	32	22	0	8	19	17	12	1	16	26	22	24.2
	Wind movement	10	32	34	119	39	22	69	59	67	2	73	60	126	81	150	105	2	87	75	87	55	81	56	9	29	5	77	45	48	15	57	1,776
Lakeside (Osage Dam)	Evaporation	††††	*	*	.125	*	.028	.026	.056	.072	.070	.044	.012	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.....
	Mean temperature	32	26	32	34	37	36	42	48	44	32	38	44	26	22	29	22	14	18	28	33	33	20	6	8	16	17	12	7	16	18	25	26.2
	Wind movement	51	177	38	87	40	47	22	53	68	39	37	57	125	131	84	125	65	49	72	23	19	131	61	31	34	9	33	62	23	31	41	1,865
St. Louis (Washington University)	Evaporation	....	....	....	....	....	....	....	....	.063	.040	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.....
	Mean temperature	36	28	28	32	34	38	44	52	40	34	34	42	22	17	28	14	12	16	24	32	34	15	7	12	18	18	12	8	17	20	18	25.3
	Wind movement	108	21	10	40	40	34	28	43	54	76	27	58	80	82	65	73	63	37	47	33	43	55	61	61	34	21	52	65	20	21	74	1,526

Observations taken at 8:00 a. m. except at 5:00 p. m. at Columbia. For Lakeside and St. Louis (Washington University) descriptions see April 1932 and August 1938 reports, respectively. * Included in next measurement. †††† —.003.

Daily Temperatures for January 1948

Stations		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Northern Division																																	
Brunswick /	Maximum..	31	27	42	38	41	41	49	54	40	37	42	41	31	29	44	16	20	32	23	45	37	20	13	21	30	24	12	15	34	30	28	31.8
	Minimum ..	23	11	8	21	26	22	19	33	34	23	28	36	17	8	7	6	3	3	14	15	23	14	-7	-11	-10	5	0	-10	-8	6	18	12.2
Chillicothe 2 mi ESE(C)	Maximum..	30	27	40	41	39	40	46	51	38	34	41	37	28	27	42	15	22	32	25	42	32	17	8	20	27	21	10	15	34	30	27	30.3
	Minimum ..	19	2	13	24	26	15	28	33	23	22	30	18	12	5	10	4	0	13	13	13	16	-1	-17	-10	7	0	-6	-15	1	24	13	10.8
Columbia	Maximum..	33	28	41	39	43	43	58	68	44	34	45	47	30	25	47	16	20	29	34	47	41	19	12	23	30	21	16	16	35	32	27	33.6
	Minimum ..	17	13	22	29	27	23	35	41	31	29	29	26	15	6	14	8	2	12	21	24	19	5	-5	-4	12	12	2	-9	6	26	17	16.3
Fayette	Maximum..	32	28	38	38	41	45	52	64	51	35	41	44	36	24	50	35	22	30	30	46	39	28	13	21	30	24	21	15	35	32	29	34.5
	Minimum ..	25	9	14	32	23	21	27	31	31	24	28	28	16	5	20	5	0	10	16	14	25	12	-11	-4	7	8	2	-12	-1	24	16	14.4
Grant City	Maximum..	20	24	41	41	38	41	45	51	40	46	42	26	23	38	43	18	20	33	30	46	38	18	10	18	23	24	10	16	31	28	30	30.7
	Minimum ..	13	-1	15	30	28	16	28	31	20	24	21	14	0	20	10	0	-4	12	1	17	17	2	-20	-5	12	5	-9	-15	4	19	15	10.3
Hannibal	Maximum..	33	26	38	36	40	39	49	60	40	30	42	43	24	24	42	11	14	26	30	45	39	15	15	24	29	20	12	18	35	32	27	30.9
	Minimum ..	24	13	12	25	25	20	29	36	29	25	25	20	11	1	9	3	-2	5	17	18	12	5	-7	1	10	9	0	-8	3	23	12	13.1
Kansas City Airport..	Maximum..	27	32	44	41	42	44	52	57	44	34	47	43	33	30	46	17	26	33	33	45	38	21	12	22	30	23	10	20	35	30	30	33.6
	Minimum ..	17	11	27	29	29	24	36	40	28	24	34	20	16	8	14	7	7	18	15	26	21	4	-5	3	8	7	-1	-5	11	25	18	16.6
Kirksville	Maximum..	31	25	37	38	37	40	46	50	44	32	39	40	25	20	41	20	18	28	27	42	38	17	13	22	27	22	13	14	32	30	27	30.2
	Minimum ..	20	8	9	30	25	18	25	32	29	26	27	24	13	1	18	0	-2	10	13	13	17	7	-12	-2	10	6	-2	-13	5	15	15	12.4
Lathrop	Maximum..	24	29	44	41	40	43	49	54	42	31	45	39	29	24	45	18	23	32	28	44	36	25	12	21	30	21	13	19	35	32	29	32.2
	Minimum ..	18	8	20	27	26	18	30	32	24	20	29	18	14	4	16	3	-1	14	8	20	24	6	-14	-6	10	9	-5	-12	7	24	11	13.0
Louisiana	Maximum..	33	30	38	39	42	43	54	63	61	36	43	46	33	33	47	42	19	25	33	46	42	31	18	25	30	25	21	16	35	32	32	35.9
	Minimum ..	29	18	8	26	20	24	29	30	34	29	24	32	15	4	15	6	-2	1	21	10	24	10	-10	-13	4	3	3	-14	0	14	13	13.1
Macon /	Maximum..	32	25	40	39	40	41	47	56	38	38	42	44	26	28	42	11	20	31	29	34	37	17	13	22	29	23	14	15	34	30	28	31.1
	Minimum ..	20	10	8	20	22	18	18	32	31	25	26	32	12	1	2	1	-3	-2	12	17	20	8	-12	-11	-2	5	-1	-11	-10	6	14	9.9
Maryville	Maximum..	20	25	43	39	39	41	47	53	38	31	48	40	29	24	42	15	22	35	28	47	35	17	7	16	24	16	6	19	29	28	29	30.1
	Minimum ..	11	-2	17	26	26	15	27	29	25	21	28	20	12	-1	18	-1	-5	13	-2	15	16	2	-22	-5	10	5	-12	-19	0	16	13	9.4
Mexico /	Maximum..	32	27	38	38	39	39	50	64	39	34	43	45	28	30	48	17	20	29	34	46	41	17	12	22	30	22	14	16	35	31	25	32.4
	Minimum ..	26	17	12	23	24	19	19	32	32	28	26	33	15	2	4	6	-1	0	7	17	24	12	-10	-9	-6	9	2	-9	-9	7	14	11.8
Moberly /.... 3½ mi. NE	Maximum..	32	30	38	36	39	37	41	60	39	36	43	43	28	34	44	16	19	28	29	45	37	*18*	*12*	21	27	21	13	19	33	30	27	§31.5
	Minimum ..	21	9	9	30	22	18	24	36	31	26	26	33	15	3	7	4	1	6	15	19	24	11	*-12*	*-12*	*-8*	8	1	-13	-5	*6*	15	§11.9
Oregon	Maximum..	20	28	45	42	38	45	47	51	40	32	51	41	32	28	45	17	23	33	30	51	34	17	11	22	22	17	8	20	35	30	30	31.8
	Minimum ..	11	3	24	28	26	18	33	35	28	24	22	16	13	3	10	2	0	15	4	22	16	-1	-15	-1	9	2	-6	-12	5	23	14	12.0
St. Charles	Maximum..	36	32	38	38	42	46	56	67	59	38	43	49	34	23	49	43	17	26	40	44	42	32	14	22	32	24	19	18	34	33	29	36.1
	Minimum ..	31	24	19	32	26	26	28	38	36	28	26	33	16	6	16	10	3	8	21	21	27	13	-5	-4	10	11	6	-7	1	24	14	17.4
St. Joseph Airport	Maximum..	21	30	45	41	39	44	48	52	40	33	49	40	32	30	44	18	26	35	31	46	34	19	14	23	27	20	10	20	34	29	30	32.4
	Minimum ..	12	3	21	26	29	18	30	32	24	22	32	19	14	7	10	5	2	16	8	21	16	0	-10	0	7	5	-5	-9	7	24	13	12.9
Trenton	Maximum..	25	28	45	42	42	44	58	53	45	38	44	40	33	28	42	30	20	31	28	43	36	28	18	20	30	26	17	18	34	29	28	33.6
	Minimum ..	16	5	13	30	27	17	30	32	30	23	29	33	16	2	17	8	0	13	10	17	23	10	-12	-5	13	8	-5	-14	6	19	17	13.6
Unionville /	Maximum..	30	24	41	36	39	39	41	46	34	33	40	34	22	24	41	10	15	28	23	40	27	13	12	25	26	17	9	14	29	28	28	28.0
	Minimum ..	14	4	4	22	21	17	11	27	26	24	26	28	11	-1	0	-2	-6	-4	8	6	18	5	-13	-14	-4	6	-5	-15	-13	3	16	7.1
Warrenton	Maximum..	31	29	38	38	38	46	55	68	61	36	44	49	36	29	49	43	18	27	38	44	44	34	14	23	32	27	20	18	34	32	28	36.2
	Minimum ..	29	19	12	33	23	24	28	35	34	27	22	36	14	4	11	8	-3	3	19	18	23	11	-9	-12	4	6	3	-13	-2	21	13	14.2
Keokuk, Iowa	Maximum..	34	26	38	37	40	41	46	51	40	32	43	41	20	22	42	9	15	28	26	42	31	15	14	21	28	17	10	17	34	31	30	29.7
	Minimum ..	25	19	17	28	28	23	31	38	30	28	29	17	9	2	8	2	-1	8	19	21	11	3	-3	5	14	10	0	-5	8	22	14	14.8
Southwestern Division																																	
Clinton	Maximum..	30	32	42	45	54	46	56	60	48	34	46	44	35	29	50	19	25	33	36	48	43	26	15	25	34	22	15	19	35	29	30	35.6
	Minimum ..	20	12	20	27	25	23	32	40	27	22	34	21	15	8	17	7	3	15	20	22	24	5	-4	-1	12	15	-3	-10	2	25	18	15.9
Eldon	Maximum..	33	31	44	41	52	48	59	68	59	39	43	47	35	27	50	42	23	30	37	47	43	34	14	20	33	23	19	19	35	33	29	37.3
	Minimum ..	23	8	18	32	25	24	31	40	35	25	28	34	15	7	20	9	2	11	21	21	26	13	-7	-5	10	14	6	-6	5	24	18	17.0
Harrisonville /	Maximum..	23	35	47	39	40	41	51	58	50	49	48	36	30	33	45	16	21	32	35	47	43	23	5	25	33	25	16	19	35	28	34	34.3
	Minimum ..	18	11	10	28	22	20	22	33	32	24	25	33	14	5	5	8	1	1	13	14	21	17	-6	-6	4	11	1	-11	-11	10	22	12.6
Jefferson City	Maximum..	33	30	44	39	45	46	58	68	57	33	44	47	33	25	49	37	21	29	37	47	43	31	15	20	30	22	19	17	35	33	29	36.0
	Minimum ..	25	14	8	31	21	24	26	35	33	24	25	32	15	7	20	9	0	7	19	17	21	10	-8	-14	7	9	6	-15	-7	25	18	14.3
Joplin Airport	Maximum..	29	32	46	45	52	45	54	63	51	49	47	49	37	30	49	23	26	32	39	44	47	40	17	24	31	23	19	23	32	29	30	37.3
	Minimum ..	17	13	28	29	29	25	35	45	30	29	20	24	16	12	23	11	5	18	24	24	29	10	1	4	19	18	2	-2	15	22	17	19.1
Lamar /	Maximum..	23	35	47	50	55	50	58	65	51	47	49	49	40	36	41	27	29	32	42	48	50	35	20	25	36	24	15	25	32	30	34	38.7
	Minimum ..	16	10	11	29	25	22	22	35	33	24	25	37	12	7	7	11	0	0	18	19	25	28	-1	-1	4	15	5	-8	-8	13	17	14.6
Lebanon	Maximum..	33	32	47	45	50	50	58	67	63	47	43	48	40	30	46	42	24	27	41	46	46	40	17	28	33	29	25	22	37	32	28	39.2
	Minimum ..	19	13	18	33	24	22	32	42	35	21	32	39	13	8	19	10	1	9	22	23	27	16	-2	-2	17	14	8	-7	8	25	21	18.1
Lexington /	Maximum..	23	30	45	40	42	44	50	57	43	39	44	42	33	31	45	17	23	33	30	44	37	19	11	21	31	25	12	18	35	29	30	33.0
	Minimum ..	20	10	9	30	28	22	22	36	33	23	28	36	16	6	6	5	4	4	15	15	25	14	-9	-9	0	13	-1	-8	-7	12	20	13.5
Marshall	Maximum..	31	32	41	40	43	42	50	59	49	35	43	43	32	25	46	38	22	32	32	45	41	31	15	23	30	25	21	17	36	32	28	34.8
	Minimum ..	19	10	19	22	25	23	30	38	32	23	29	29	17	6	22	5	4	12	14	21	21	13	-10	-6	9	11	1	-8	5	24	18	15.4
Mountain Grove	Maximum..	35	33	43	45	45	49	59	66	65	45	42	46	44	31	47	43	24	27	39	40	47	44	20	26	30	28	25	24	30	30	29	38.7
	Minimum ..	17	14	21	34	26	25	30	38	38	24	34	36	15	9	19	11	3	8	19	20	25	19	0	0	12	11	12	0	13	24	22	18.7
Neosho	Maximum..	35	40	52	48	59	52	60	66	62	51	47	49	41	36	50	45	29	34	41	47	50	45	25	25	37	32	24	26	31	30	30	41.9
	Minimum ..	13	4	13	33	25	20	27	38	37	26	39	41	17	12	26	15	1	15	25	19	24	24	4	3	20	19	10	1	11	11	17	19.0
Nevada	Maximum..	32	36	44	47	51	48	57	57	55	45	46	46	37	31	49	46	28	31	39	49	47	40	22	26	36	29	21	22	32	30	35	39.2
	Minimum ..	18	12	23	34	26	20	27	41	36	22	35	35	13	7	24	11	0	17	19	22	26	21	-1	2	14	19	5	-10	6	6	20	17.7
Sedalia	Maximum..	30	30	42	42	47	44	53	62	55	38	44	44	33	27	48	40	21	32	33	45	43	34	15	20	32	28	20	14	33	32	28	35.8
	Minimum ..	15	11	20	32	25	21	32	41	33	21	30	33	16	7	22	8	2	14	19	22	24	15	-9	-6	10	11	4	-11	5	25	18	16.5
Springfield....4 mi. NW	Maximum..	31	33	46	44	47	48	57	67	50	46	45	47	32	26	45	22	22	28	39	45	46	36	16	24	32	23	18	23	30	29	29	36.3
	Minimum ..	17	9	20	29	27	24	31	39	29	24	36	24	14	7	22	8	3	13	22	21	27	8	0	0	18	17	2	-4	12	23	16	17.4
Warrensburg	Maximum..	30	28	41	42	45	44	51	58	50	42	44	44	35	27	49	44	22	32	32	46	42	35	16	22	33	28	22	16	34	32	29	36.0
	Minimum ..	20	12	24	34	28	25	33	40	35	23	31	32	16	9	23	8	5	15	12	23	26	15	-5	-1	13	16	3	-6	7	25	19	18.1
Southeastern Division																																	
Arcadia /	Maximum..	37	34	43	45	45	53	62	66	55	46	44	46	32	25	40	22	25	29	40	37	49	24	24	32	40	26	26	27	37	33	30	37.9
	Minimum ..	33	19	8	15	22	22	22	33	37	29	23	33	18	8	7	12	4	2	2	16	20	18	-2	-9	-8	6	10	-2	-2	6	22	13.7
Birch Tree.... ½ mile E	Maximum..	40	37	47	49	42	53	59	67	61	47	43	44	44	31	42	39	25	29	40	39	49	41	20	28	33	26	25	24	30	30	30	39.2
	Minimum ..	20	20	15	33	18	27	20	30	40	26	31	36	16	9	16	14	2	4	19	14	17	20	0	-2	17	12	14	0	8	24	20	17.4
Caruthersville	Maximum..	63	35	54	56	50	51	55	62	60	53	46	48	44	31	44	43	26	28	33	41	52	49	25	28	34	32	26	25	29	33	34	41.6
	Minimum ..	30	27	26	37	30	33	27	37	45	30	30	40	29	18	20	23	12	10	20	22	27	23	8	7	20	22	20	6	16	25	23	24.0
Crystal City	Maximum..	37	32	40	40	45	42	50	60	66	59	43	50	46	26	51	41	22	27	44	45	47	52	20	28	35	30	22	22	38	34	30	39.5
	Minimum ..	26	24	16	29	22	29	26	23	30	37	23	38	17	7	18	11	4	3	21	19	19	14	-4	-17	6	4	10	-10	-2	26	15	15.6
Doniphan	Maximum..	45	43	52	55	49	56	57	68	64	53	45	44	41	32	46	37	26	29	35	41	54	46	21	30	37	29	28	26	30	32	34	41.5
	Minimum ..	25	24	17	30	20	25	19	26	42	24	27	39	23	14	14	20	5	4	14	14	16	20	5	0	18	15	20	3	10	25	25	18.8
Farmington	Maximum..	36	31	40	41	45	48	57	65	61	40	41	46	45	26	42	39	19	27	40	37	46	41	15	23	35	27	22	20	35	32	30	37.2
	Minimum ..	22	20	11	35	22	27	25	35	38	26	25	35	15	6	12	10	2	3	20	18	24	13	-5	-2	7	6	10	-5	5	25	9	15.9
Jackson	Maximum..	44	32	41	47	46	51	54	63	58	45	44	43	42	27	39	39	21	29	34	35	49	43	18	24	34	29	25	19	31	35	32	37.8
	Minimum ..	28	24	19	32	22	28	23	30	38	25	22	38	21	12	16	15	7	4	15	14	16	17	0	0	8	9	15	-1	5	26	18	17.6
Poplar Bluff	Maximum..	40	37	47	54	48	56	54	63	63	55	46	45	42	32	42	37	25	30	33	38	52	48	23	30	35	29	26	25	30	32	31	40.3
	Minimum ..	28	25	22	34	25	30	25	30	45	27	26	38	24	15	18	20	13	7	17	16	20	23	7	5	18	19	19	3	11	25	22	21.2
Rolla /	Maximum..	30	33	41	41	43	46	54	63	40	42	42	42	29	31	45	14	25	25	36	45	43	19	11	27	33	19	19	21	37	29	33	34.1
	Minimum ..	28	17	14	31	22	26	28	41	37	27	27	38	14	6	12	9	3	3	20	18	25	16	-6	-6	-3	16	7	-5	5	14	19	16.2
St. Louis	Maximum..	39	30	37	39	41	46	59	65	51	35	42	48	26	21	47	20	15	25	40	43	40	18	14	21	31	24	16	19	37	34	26	33.8
	Minimum ..	28	24	23	32	30	30	35	42	32	29	29	26	17	6	20	8	5	9	23	26	17	10	2	6	17	16	4	1	11	26	14	19.3
Salem	Maximum..	35	33	42	43	45	49	56	64	58	41	43	46	43	48	49	41	21	28	41	41	47	39	17	23	34	25	20	23	36	34	30	38.5
	Minimum ..	21	19	12	34	22	25	24	35	38	26	27	38	15	6	13	10	3	5	20	19	20	17	-4	-11	16	9	10	-5	6	26	20	16.6
Sikeston /	Maximum..	43	32	48	51	47	50	55	63	57	45	49	42	32	27	43	21	22	27	32	37	50	27	18	25	32	22	21	22	29	32	27	36.4
	Minimum ..	40	24	24	25	25	26	30	30	35	28	27	35	27	15	14	20	9	7	10	21	26	23	5	2	3	16	19	1	1	12	26	19.5
Union ....1½ mi. SE	Maximum..	35	29	42	39	45	45	57	68	61	36	44	49	36	26	50	44	19	27	40	44	43	34	16	23	32	26	21	19	35	33	30	37.0
	Minimum ..	27	21	16	30	21	26	22	30	32	29	23	35	16	6	15	10	2	4	21	17	20	10	-6	-17	5	3	6	-14	-7	26	14	14.3
West Plains	Maximum..	44	35	51	47	44	53	60	68	58	45	44	45	34	28	46	35	25	26	39	40	50	33	19	26	28	25	24	24	29	29	31	38.2
	Minimum ..	20	15	15	25	21	23	23	28	30	24	35	32	18	13	21	11	5	6	17	16	21	10	2	-1	11	14	8	1	13	24	10	16.5
Cairo, Ill.	Maximum..	61	32	45	48	44	48	52	62	55	42	46	43	35	24	40	37	22	26	32	37	48	34	16	23	28	27	24	20	28	33	30	36.8
	Minimum ..	25	26	27	33	28	31	30	39	37	30	30	35	24	14	19	20	10	9	21	23	28	11	7	10	17	16	12	3	14	26	13	21.5

/ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs. ª, ᵇ, ᶜ, etc., number of days missing, for example, ᵇ indicates two days missing. Italics data interpolated. § Partly interpolated. (C) Airport.

Missouri Storms, January 1948

County	Date	Time	Nature of storm	Storm moved from	Width of path (miles)	Length of path (miles)	Loss of life	Property damage (estimated)	Remarks
Holt	Dec. 31–Jan. 1	During night	High wind	NW	....	....	0	None reported	Observer at Oregon reported this was "considered the hardest wind ever known here during winter. A dead calm settled at 2:30 a. m. for 40 minutes and a roaring noise, possibly a tornado, passed overhead."
Bates	1	During night	High wind	SW	....	....	0	Not reported	At Butler a very bad windstorm from the southwest, at 1:00 a. m., blew down telephone lines. The high wind was preceded by a bad sleet storm on December 31st. At Altona "a terrific windstorm of tornado velocity in many sections" was reported on January 1st, and was preceded by rain, sleet and snow New Years eve.
Lafayette	1	After 2:00 a.m.	High wind	NE	....	....	0	Minor	At Lexington, "some windows and trees were broken by wind from the northeast lasting about 15 minutes." The wind was preceded by two inches of sleet that later turned to snow.
Jackson	1	....	High wind	NE	....	....	0	Not reported	Scores of windows broken and buildings under construction damaged.
Over most of State	Dec. 31–Jan. 1	During the day and night	Glaze, sleet and snow	SW	Approximately 60	Across the State from SW to NE	15	$750,000 to $1,000,000	Freezing rain that began on December 31st, accompanied by sleet at many stations, occurred over most of the State, except the extreme southern portion and most of the Southeastern Division, changed to snow on January 1st, resulting in the worst storm of this nature in Missouri since the one of December 16-19th, 1924. Extensive damage was done to fruit and shade trees and power and communication lines and poles and the movement of all surface traffic and pedestrians was greatly hampered by the heavy coating of ice, sleet and snow. A strip about 60 miles wide across the central portion of the State, extending from Vernon and Bates Counties northeastward to Knox, Lewis and Ralls Counties was the hardest hit by the storm. Fourteen persons were killed in a Missouri Pacific train wreck near Otterville, Cooper County, on the morning of January 1st and another died of exposure at Warsaw, in which this storm was not the direct but was a contributing cause. Numerous accidents to pedestrians and motorists resulted in injury to many persons and damage to many automobiles because of the ice-covered highways, roads, streets and sidewalks. The Southwestern Bell Telephone Co. reported damage of $100,000 to their lines and poles, with 14,248 wire breaks, 300 poles down and 200 toll lines out of service in their eastern Missouri division alone. At Columbia the entire R. E. A. system was knocked out and 2,100 members were without electric and power service. Damage was estimated at $10,0000 to $12,000 to that agency. The Columbia Municipallight and power plant reported damage of $20,000 to $25,000 to its system, while the telephone company there reported damage of at least $10,000 to its equipment. At Fulton the damage to the city electric and water plant was estimated at $7,500 while the total damage in Fulton and in Callaway County was estimated at $500,000, or more. It was stated that it would take 30 to 50 years to replace the hundreds of fruit and shade trees that were damaged in Fulton by this storm. Excerpts from remarks by observers from other places in the State suffering damage from this storm were:— Auxvasse—Heavy damage to trees, telephone and electric wires. Canton—Ice ¼ inch thick on wires and trees; all long distance and 50% of local telephone wires out. 90% of R. E. A. power lines out. Edina—Wires and trees broken; considerable damage. Fayette—½ inch coating of ice broke trees, electric and telephone lines. Fulton—Worst storm since 1924; damage to trees cost Callaway County $500,000. Macon—Trees and wires broken down. Martinsburg—Some light and telephone wires down; electric current off 1½ hours; trees damaged. Mexico—Trees, power and telephone lines broken; telephone and power service off in approximately 90% of residences; estimated a month will be required to clean up the trees. Salisbury—Heavy damage to trees, power, light and telephone lines. Saverton—Power and communication lines down in this area. Shelbina—Light, power and communication lines out all over town; a number of trees ruined. Steffenville—Heavy damage to trees and wires. Vandalia—Power and telephone lines broken. Appleton City—Great damage in this vicinity; trees, telephone and light wires broken. Boonville—14 persons killed in train wreck; heavy damage to trees and power lines; highway 40 very dangerous. Butler—Telephone lines down; high wind. Crocker—Glaze on trees, wires and shrubs until the 3d. Eldon—Much damage to trees, telegraph and power lines; city in complete darkness by 9:00 p. m. Dec. 31st; power and lights off for 72 hours at greenhouse. Marshfield—Severe damage to trees and power lines at Dixon; streets and highway 66 at and near Marshfield very slippery. Nevada—Much damage to trees and communications; utilities still out on Jan. 2d.

Time used on this tabulation is Central Standard Time, unless otherwise indicated.

WBO, St. Louis, 5-7-48-1130.

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CLIMATOLOGICAL DATA

MISSOURI SECTION

H. F. WAHLGREN
ST. LOUIS, MO.

VOL. LII FEBRUARY 1948 No. 2

PRICE: 5 CENTS A COPY; 25 CENTS A YEAR

GENERAL SUMMARY

Both the temperature and precipitation averaged practically normal this month, for the State as a whole, but the snowfall averaged more and sunshine less than normal. No field work, in preparation for early spring plantings, was accomplished during the month.

No unusual temperatures occurred this month, extremes ranging from a high of 79° to a low of 9° below zero. Generally speaking, the first half of the month averaged considerably colder than normal while the latter half averaged considerably warmer than normal. The 8th was the coldest day during the month with minimum temperatures dropping to near zero, or below, over most of the State. The 17th and 18th were the warmest days with afternoon temperatures in the 60's and 70's. Distribution of the average temperature, with departures from normal, by divisions was:—Northern, 29.0°, −1.2°; Southwestern, 34.5°, exactly normal; Southeastern, 36.4°, −0.5°; for the State, 33.3°, exactly normal. Minimum temperatures of 32°, or below, and zero, or below, occurred on an average of 22 days and 1 day, respectively, for the State as a whole.

Precipitation averaged practically normal in each of the three divisions, and for the State as a whole, viz.:—Northern, 1.63 inches, +0.07 inch; Southwestern, 2.17 inches, +0.19 inch; Southeastern, 2.69 inches, −0.03 inch; for the State, 2.16 inches, +0.07 inch. Although the average precipitation for the month was nearly normal, the frequency was higher than normal for February, with an average of 10 days with 0.01 inch or more, or 4 days more than normal. The distribution of the month's precipitation varied greatly, ranging from a total of 5.42 inches at Deering, in the extreme southern tip of the State, to only 0.36 inch at Bethany, in the extreme northern portion. Rain, snow, sleet, glaze and light local hail constituted the various forms of precipitation during the month. Sleet and glaze were particularly general over most of the State on the 12-13th, resulting in hazardous traveling conditions and numerous traffic accidents and injuries to pedestrians. Snowfall averaged considerably more than normal for February and the ground was covered during most of the first half of the month, particularly over the northern half of the State. Some of this snow cover occurred on December 31-January 1st. Water supplies were rather low in some southwestern areas of the State during the month.

A few local wind storms of a damaging nature occurred on the 27th. (See special storm table for details). High winds occurred on several other days during February, but without damage.

Minor flooding occurred locally in the Grand and Mississippi rivers the latter part of the month.

Much cloudy, damp, foggy weather prevailed during February, with the ground being frozen and snow-covered most of the first half of the month and too wet to work the latter half. Consequently no field work or oat sowing was accomplished, outdoor farm work being confined chiefly to seasonal chores. Wheat appeared to be in good condition at the close of the

(Continued on page 11)

PRESSURE, WIND, HUMIDITY, AND SUNSHINE

Stations	Sea-level pressure, extremes-inches: Highest	Date	Lowest	Date	Wind: Average hourly velocity	Maximum velocity ¶	Direction of maximum	Date	Relative humidity: 12:30 a. m.	6:30 a. m.	12:30 p. m.	6:30 p. m.	Percentage of sunshine	Degree days
Columbia	30.61*	8	29.21*	27	7.9	27	w.	27	84*	89*	73*	74*	60	940
K. C. Airport	30.66	8	29.15	27	10.6	37	sw.	27	77	80	67	67	37	986
St. Joseph Ap't	30.67	8	29.11	27	8.4	34	sw.	27	79	83	67	72	30	1074
St. Louis	30.61*	8	29.29*	27	11.4	37	s.	27	80*	82	67	73*	55	875
Springfield	30.52	10	29.27	27	12.7	46	sw.	27	84	91	74	73	39	893
Cairo, Ill.	30.56	15	29.45	27	9.9	36	sw.	27	..	86	75	..	48	762
....	.....	..	.....	..	....	..	......	..	..	..	..	..	..	....

* Data for Airport station. ¶ For 5-minute period.

COMPARATIVE DATA FOR FEBRUARY

Year	Temperature: Average for State	Highest	Lowest	Precipitation: Average for State	Average, Northern Division	Average, Southwestern Division	Average, Southeastern Division	Snowfall, Average for State	Number of days: Precip. .01 inch or more	Clear	Partly cloudy	Cloudy
1888	33.0	73	−17	2.22	2.04	2.22	2.39	....	7	..	..	..
1889	29.3	73	− 9	2.74	1.80	3.12	3.30	....	7	..	..	..
1890	35.5	81	− 8	2.71	1.12	2.04	4.97	....	7	..	..	..
1891	32.7	78	−13	2.45	2.05	2.33	2.96	2.4	6	..	..	..
1892	37.7	71	2	4.31	3.47	5.40	4.06	....	9	7	6	16
1893	27.9	65	−20	2.17	2.02	1.49	2.99	4.6	6	10	7	11
1894	30.8	72	−12	2.70	2.15	2.01	3.93	11.2	6	10	8	10
1895	23.6	77	−26	0.57	0.48	0.55	0.67	3.3	5	10	10	8
1896	35.6	81	−10	1.67	1.50	1.22	2.30	4.1	5	12	8	9
1897	34.8	74	−15	2.51	1.47	2.79	3.27	8.2	7	7	7	14
1898	35.4	78	− 9	1.61	1.54	1.47	1.81	0.8	5	13	6	9
1899	20.4	72	−32	2.30	1.75	2.06	3.10	5.8	6	12	8	8
1900	26.2	70	−16	4.00	3.87	3.35	4.77	16.6	10	10	6	12
1901	28.1	76	−19	1.74	1.41	1.51	2.31	7.6	6	13	7	8
1902	24.0	72	−17	1.62	0.89	2.10	1.88	5.5	5	11	8	9
1903	29.8	74	−25	3.25	1.98	3.34	4.42	5.8	7	11	6	11
1904	30.0	82	−18	1.02	0.64	0.63	1.78	1.5	5	11	8	10
1905	21.5	69	−40	1.68	1.72	1.69	1.63	13.2	8	11	6	11
1906	33.7	73	−13	2.42	2.66	2.17	2.43	4.8	7	15	6	7
1907	34.8	77	−15	1.28	0.79	0.92	2.12	4.5	6	12	5	11
1908	35.6	78	− 7	4.32	2.83	4.20	5.94	4.1	9	13	6	10
1909	38.8	71	− 4	3.24	2.37	2.52	4.82	3.1	9	13	5	10
1910	28.3	72	−24	2.17	0.92	1.89	3.71	10.2	6	13	5	10
1911	38.1	87	0	3.78	4.09	3.99	3.27	6.7	8	12	5	11
1912	28.3	72	−12	2.51	1.99	2.56	2.98	14.5	8	10	7	12
1913	29.8	78	− 9	2.15	2.08	2.62	1.75	8.5	7	12	5	11
1914	28.3	75	−11	2.80	2.03	2.55	3.83	14.0	7	12	6	10
1915	39.4	72	7	3.07	2.48	3.53	3.21	4.1	8	9	5	14
1916	31.4	78	−12	0.98	0.79	0.73	1.42	5.0	5	13	6	10
1917	30.5	83	−22	0.42	0.16	0.24	0.85	1.4	2	14	7	7
1918	34.9	85	−25	1.06	1.25	0.80	1.12	0.6	4	15	6	7
1919	35.3	71	−10	1.96	1.98	2.08	1.82	6.4	7	13	4	11
1920	34.5	78	− 5	0.62	0.33	0.40	1.14	1.2	4	11	6	12
1921	40.1	86	5	1.03	0.55	0.74	1.79	1.8	4	14	6	8
1922	35.4	80	− 5	1.83	1.37	1.62	2.49	1.9	5	14	6	8
1923	30.2	75	− 9	1.58	0.52	1.26	2.97	1.4	5	13	5	10
1924	33.8	79	− 5	1.84	1.58	1.92	2.03	8.1	7	14	4	11
1925	38.7	78	1	1.88	1.85	1.42	2.37	1.7	6	12	6	10
1926	39.4	76	− 4	2.07	1.93	1.81	2.46	2.9	6	11	6	11
1927	41.3	78	1	1.07	1.07	0.90	1.25	2.3	5	10	8	10
1928	37.0	73	− 2	2.27	2.18	2.17	2.47	1.8	7	12	6	11
1929	25.0	64	−23	1.96	1.31	1.72	2.86	9.4	7	10	5	13
1930	44.5	89	− 5	1.75	0.95	1.49	2.80	1.3	4	13	8	7
1931	40.9	75	5	2.49	1.46	2.82	3.20	0.3	6	12	6	10
1932	42.4	83	− 3	1.47	1.00	0.99	2.43	2.0	6	12	7	10
1933	32.2	78	−22	1.45	0.74	1.26	2.35	4.2	5	14	7	7
1934	32.5	79	−26	1.34	1.00	1.32	1.70	7.0	5	15	6	7
1935	37.4	80	0	1.54	1.63	1.45	1.55	0.2	5	10	6	12
1936	23.2	78	−25	1.50	1.43	1.33	1.73	4.1	6	12	7	10
1937	32.4	74	−15	1.38	1.20	1.46	1.48	3.5	6	11	7	10
1938	41.4	80	− 5	3.20	1.47	3.60	4.54	5.0	7	8	6	14
1939	33.0	71	− 9	3.17	1.73	2.70	5.08	8.6	9	11	6	11
1940	33.5	78	−11	1.59	1.11	1.37	2.28	5.5	9	7	6	16
1941	32.7	66	0	0.58	0.50	0.62	0.63	2.2	5	10	7	11
1942	33.0	74	−10	3.00	3.43	2.35	3.23	6.6	10	8	7	13
1943	39.1	80	−10	0.94	0.81	0.95	1.07	0.9	4	17	7	4
1944	37.9	82	−21	3.10	1.72	3.56	4.01	7.5	9	10	8	11
1945	35.5	85	−13	4.05	1.41	4.16	6.57	5.1	9	7	6	15
1946	40.8	75	− 1	2.81	0.97	2.98	4.48	2.6	5	15	6	7
1947	28.8	73	− 8	0.26	0.11	0.31	0.35	3.5	2	11	9	8
1948	33.3	78	− 9	2.16	1.63	2.17	2.69	6.3	10	9	6	14
Period	**33.3**	**89**	**−40**	**2.09**	**1.56**	**1.98**	**2.72**	**5.0**	**6**	**12**	**7**	**10**

NAT. HIST.

Climatological Data for February 1948

Stations	Counties	Elevation, feet	Temperature, in degrees Fahr.							Precipitation, in inches						Number of days				Prevailing direction of wind	Observers
			Length of record, years	Mean	Departure from the normal	Highest	Date	Lowest	Date	Length of record, years	Total	Departure from the normal	Greatest in 24 hours [4]	Date	Total snowfall, unmelted	With precip., .01 inch or more	Clear	Partly cloudy	Cloudy		
Northern Division																					
Albany	Gentry	930	7	27.8	......	65	17	− 8	9	19	1.13§	−0.49	0.35	26–27	6.2§	8	9	8	12	se.	William J. Butler
Amity	DeKalb	1,007	2	28.2	......	69	18	− 9	8	13	1.36§	−0.16	0.56	27	5.9	8	7	5	17	se.	O. M. Colhour
Bethany	Harrison	916	53	27.4	− 0.1	63	17	− 7	8†	55	0.36	−1.06	0.10	12–13†	2.8	6	11	3	15	se.	B. A. McGregor
Brookfield	Linn	767	7	28.8	......	70	17	− 3	8	7	1.50	......	0.92	27	6.1	8	10	6	13	e.	G. F. Breen
Brunswick	Chariton	652	67	28.6	− 1.2	68	18	− 1	8†	69	1.41	−0.40	0.40	27	6.0	12	16	3	10	ne.	O. K. Benecke
Canton, Lock & Dam 20	Lewis	488	10	28.9	− 2.2	64	17	− 3	9	18	1.90	+0.64	1.11	27	5.2	13	10	8	11	nw.	Lockmaster
Carrollton	Carroll	754	2	31.0	......	67	18	− 1	8	2	1.36	......	0.62	27	5.2	10	9	7	13	e.	Harold E. Finley
Chillicothe 2 mi ESE(C)	Livingston	771	39	27.2	− 5.1	66	17	− 5	8	42	1.49	+0.04	0.93	27	5.9	8	4	10	15	n.	Civil Aeronautics Adm.
Columbia	Boone	740	58	32.6	+ 0.2	70	18	3	8	58	2.04	−0.05	1.10	27	4.3	9	9	5	15	n.	U. S. Weather Bureau
Conception	Nodaway	1,108	59	27.6	− 0.6	64	17†	− 9	8	64	1.12	−0.03	0.34	27	6.0§	6	7	8	14	se.	Fr. Adelhelm Hess
Edgerton	Platte	856	28	27.0	− 7.3	71	18	− 4	9	45	0.91	−0.43	0.46	26–27	3.8	10	4	13	12	n.	Leroy H. Mindrup
Elsberry	Lincoln	449	17	29.9	− 3.9	73	18	− 5	6	17	1.61	−0.05	0.43	27–28	5.4§	10	13	4	12	n.	Soil Conservation Service
Fayette	Howard	760	68	31.7	+ 1.1	69	18	0	8	65	1.70§	0.00	0.86	27	8.7	8	11	4	14	sw.	Irvin E. Schnell
Fulton	Callaway	818	60	30.5	− 2.6	70	18	2	8†	56	1.53§	−0.14	0.68	27	5.3§	11	14	5	10	ne.	Frank E. Hillgartner
Grant City	Worth	1,134	44	27.0	− 1.6	62	17	− 7	8	56	0.88	−0.23	0.47	26–27	2.9	6	10	1	18	e.	J. Homer Korn
Hannibal	Marion	759	56	29.0	− 0.7	67	18	− 2	8	64	2.12	+0.22	1.08	27	5.8	7	11	7	11	n.	Hannibal Water Dept.
Kansas City Airport	Jackson	741	59	31.0	− 0.2	70	18	0	8	59	0.94	−0.61	0.33	27	4.4	7	6	4	19	sw.	U. S. Weather Bureau
Kidder	Caldwell	1,020	56	27.7	− 0.7	65	18	− 9	8	60	1.54§	0.00	0.73	27	8.0	11	9	4	16	n.	Mrs. Geraldine Terry
Kirksville	Adair	969	59	28.4	+ 1.3	63	17	− 5	8	66	1.92§	+0.39	1.32	27	5.0	6	11	6	12	se.	Dow Jones
Kirksville Airport	Adair	970	9	26.8	......	63	17	− 5	8	9	1.94	......	1.37	27	6.0	8	4	7	18	n.	Civil Aeronautics Adm.
Lathrop	Clinton	1,071	1	29.6[c]	......	68[c]	17	− 6[c]	8	1	1.49§	......	0.60	27	7.0§	8	11[c]	9[c]	6[c]	e.	E. L. Fisher
Louisiana	Pike	469	54	31.1	+ 0.2	69	18	− 7	9	67	1.70	−0.38	0.55	27	8.2§	12	10	6	13	n.	Stark Bro's Nurseries
Macon	Macon	875	49	27.8	− 1.8	67	18	− 4	8†	55	1.29	−0.41	0.80	27	5.8	8	11	5	13	ne.	John W. Atwell
Maryville	Nodaway	1,169	58	25.7	− 0.1	63	17	− 9	8	54	1.36	−0.07	0.55	27	5.5	8	8	4	17	nw.	R. B. Montomery
Memphis	Scotland	787	9	26.1	− 0.9	64	17	− 6	8	18	1.77§	+0.80	1.20	27	6.5§	8	7	10	12	nw.	John W. Alexander
Mexico	Audrain	800	59	29.5	− 0.6	69	18	− 1	8†	70	1.75	−0.10	0.77	27	7.0§	9	10	7	12	se.	D. N. Woods
Moberly .....3½ mi. NE	Randolph	860	11	29.4§	− 3.5	65[a]	17†	− 2	8	11	2.52§	+1.00	....	..	6.3§	11	12	4	13	sw.	V. L. Laursen
New Florence, 1 mi SE	Montgomery	885	5	31.0	......	70	18	1	8†	6	1.47	......	0.65	27	3.6	8	8	5	16	n.	U. S. Weather Bureau
Oregon	Holt	1,093	92	27.6	− 1.2	70	17	− 7	8	92	1.04§	−0.33	0.50	27	6.8	5	9[a]	8[a]	11[a]	nw.	James M. Curry
Polo	Caldwell	1,000	2	27.4	......	67	17†	− 5	8	2	1.34§	......	0.30	27–28	4.8	9	8	8	13	n.	F. B. Albright
St. Charles	St. Charles	520	60	34.4	+ 1.1	70	17†	3	9	70	1.68	−0.31	0.49	13	6.5§	14	11[a]	9[a]	8[a]	n.	Mrs. Myrtle Bregel
St. Joseph Airport	Buchanan	957	38	28.0	− 1.6	67	17	− 3	8	76	1.01	−0.72	0.41	27	4.2	7	5	4	20	n.	U. S. Weather Bureau
Salisbury	Chariton	723	2	31.2	......	68	18	0	8†	2	1.45	......	0.63	27	5.5	10	7	9	13	n.	David H. Robertson
Saverton, Lock No. 22	Ralls	472	10	30.6	− 1.2	67	18	− 2	9	10	1.50	+0.03	0.45	27	5.4	11	17	3	9	nw	Lockmaster
Shelbina	Shelby	779	7	29.6	......	66	17†	− 3	8	55	2.08	+0.24	1.24	27	6.1	8	13	4	12	nw.	Guyman Hatcher
Steffenville	Lewis	650	50	29.1	− 0.6	64	18	− 3	8	55	1.80	+0.03	1.14	27	7.3	10	12	6	11	n.	Mrs. Fannie V. Gross
Tarkio	Atchison	916	45	25.8	− 3.2	67	17	− 5	8	54	1.47	+0.19	0.99	27	4.5	8	6	10	13	n.	Civil Aeronautics Adm.
Trenton	Grundy	822	52	28.8	− 0.6	65	17	− 5	8	53	1.80§	+0.22	0.98	27	9.0	12	6	10	13	s.	W. H. Estes
Unionville	Putnam	1,062	55	25.6[f]	− 1.1	..	..	− 9	8	55	1.39	−0.38	0.92	24	3.2	9	9	8	12	s.	George D. Choate
Vandalia	Audrain	766	4	30.2	......	67	18	− 3	9	9	1.75	......	0.55	27	9.5	9	11	10	8	n.	Mrs. Naomi K. Stoutz
Warrenton	Warren	880	66	33.2	+ 2.3	72	18	0	9	58	1.25	−0.64	0.41	27	6.0§	8	12	6	11	ne.	W. T. Zimmerman
Keokuk, Iowa	Lee, Ia.	574	76	28.8	+ 0.5	64	17†	− 3	8	76	1.97	+0.37	1.39	27	6.0	5	14	4	11	ne.	U. S. Weather Bureau
Division means	**and extremes**	.....	..	**29.0**	**− 1.2**	**73**	**18**	**− 9**	**8**	..	**1.63**	**+0.07**	**1.65**	**27**	**5.8**	**9**	**10**	**6**	**13**	**n.**	
Southwestern Division																					
Anderson ...1½ mi SW	McDonald	1,000	44	35.1	− 0.6	75	17†	2	14	49	3 23	+1.45	0.75	5	9.0	9	12[b]	1[b]	14[b]	ne.	Samuel G. Chamberlain
Appleton City	St. Clair	800	53	33.6	− 0.3	72	18	4	8	56	1.45	−0.22	0.40	27	5.0	11	11	4	14	sw.	F. Paul Eye
Bolivar	Polk	1,071	45	36.0	+ 0.8	74	18	7	8	53	1.89	−0.21	0.54	27	7.6	11	10	4	15	ne.	Southwest Baptist College
Boonville	Cooper	650	10	29.4	− 2.7	70	18	0	8	71	1.53	−0.25	0.45	27–28	5.2	11	14	5	10	se.	Boonville Water Dept.
Butler	Bates	865	2	33.9	......	72	18	4	8	7	1.66	......	0.59	27	10.7	11	7	4	18	ne.	Harley W. Johnson
Camdenton	Pulaski	940	2	37.0	......	74	18	6	9	2	2 26	......	0.50	3	7.5	7	10	4	15	sw.	Mo. Conservation Com.
Carthage	Jasper	962	14	37.4	......	75	17	11	8†	24	2.01	......	0.69	27	9.0§	9	6	10	13	no.	Carthage W. and E. Plant
Clinton	Henry	786	55	32.8	− 0.8	74	18	4	8	61	1.28	−0.67	0.38	27	8.0	8	9	2	18	ne.	U. S. Weather Bureau
Eldon	Miller	934	53	34.2	+ 1.1	72	18	5	8†	49	1.54	−0.28	0.61	26–27	4.0	10	12	5	12	ne.	Arthur Rothwell
Harrisonville	Cass	904	70	30.5	− 0.2	72	18	1	8†	73	0.99	−0.74	0.36	27	3.0	9	6	2	21	nw.	Jeffrey B. Patterson
Jefferson City	Cole	557	58	33.2	+ 1.1	72	18	3	8	66	1.23	−0.53	0.56	27	4.0	9	12	5	12	n.	K. W. O. S. Radio Farm
Joplin Airport	Jasper	988	26	36.1	+ 0.3	74	18	12	8†	43	1.80	+0.12	0.57	27	7.3	11	6	5	18	s.	Civil Aeronautics Adm.
Kansas City Univ.	Jackson	908	10	31.8	− 3.8	70	17†	0	8	10	0.78	−0.43	0.26	26–27	3.8	9	9	7	13′	sw.	University of Kansas City
Lakeside	Miller	595	17	32.6	− 1.4	73	18	6	9	17	1.55	−0.27	0 44	27	4.0	11	..	..	..	ne.	W. S. Frame
Lamar	Barton	980	60	33.3	− 2.0	76	18	6	8†	67	1.07	−0.70	0.35	5	5.5	7	11	3	15	sw.	Mrs. Marie Mann
Lebanon	Laclede	1,265	60	35.8	+ 1.4	72	18	6	8†	61	1.90	−0.29	0.62	26–27	9.6§	10	7	9	13	sw.	Mrs. Rosa E. Montelius
Lexington	Lafayette	688	63	29.8	− 1.2	71	18	− 1	8	64	1.73	−0.11	1.34	27	3.7	10	7	9	13	ne.	William H. Cullon
Lockwood	Dade	1,078	42	36.9	− 0.1	75	18	1	10	52	2.02	+0.29	0.78	27	8.5	8	9	10	10	se.	Hubert A. Nieman
Marshall	Saline	779	61	32.2	+ 1.3	69	18	0	8	58	1.09	−0.69	0.58	27	8.2	8	9	8	12	se.	Thomas A. Reid
Marshfield	Webster	1,484	3	35.8	......	72	18	6	9	7	1.93	......	0.48	27	7.5	11	12	4	13	sw.	Sho-Me Power Co.
Monett	Barry	1,317	1	35.3	......	72	18	6	9	1	2.63	......	0.50	5†	7.5	11	10	3	16	n.	Mo. Univ. Fruit Exp. Sta.
Mountain Grove	Wright	1,463	47	36.4	+ 1.3	72	18	3	9	51	2.48	+0.25	0.62	5	11.8	13	9	4	16	se.	Mo. Fruit Exp. Station
Mount Vernon	Lawrence	1,174	36	36.4	+ 1.9	73	18	9	9	48	2.52	−0.08	0.70	26–27	6.7	10	11	6	12	se.	Arthur D. Ferrer
Neosho	Newton	1,011	61	38.6	+ 1.0	76	18	10	9†	65	2.48	+0.49	0.74	12–13	9.7	11	11	4	14	se.	U. S. Fisheries Station
Nevada	Vernon	862	55	35.5	+ 1.6	73	18	6	8	56	1.64	−0.11	0.72	27	5.6	9	9	2	18	ne.	Henry Kraft
Ozark Beach	Taney	700	8	37.0	......	78	18	9	10	23	3.22	+1.42	0.85	5	7.0	14	9	6	14	n.	Empire District Elec. Co.
Sedalia	Pettis	910	35	33.6	+ 3.2	71	18	3	8	37	1.42	−0.72	0.48	27	11.0	10	11	5	13	sw.	Dr. J. E. Cannaday
Seligman	Barry	1,542	47	38.0	+ 0.5	74	17†	7	22	45	3.59	+1.75	0.92	26–27	7.0	9	8	5	16	e.	Floyd E. Fawver
Seymour....4 miles NE	Webster	1,642	42	32.7	− 2.3	73	18	6	9†	42	2.61	+0.43	0.61	5–6	9.9§	11	11	1	17	s.	Ira H. Hailey
Springfield...4 mi. NW	Greene	1,265	60	34.4	+ 0.4	71	18	6	9	60	1.87	−0.56	0.49	12	7.4	11	7	13	9	se.	U. S. Weather Bureau
Sweet Springs	Saline	700	7	32.4	......	70	18	1	8	7	1.52	......	0.76	27	11.7§	9	6	10	13	n.	H. F. Nelson
Warrensburg	Johnson	878	61	33.8	+ 1.3	71	18	3	8	68	1.16	−0.72	0.35	27	4.7§	10	9	8	12	ue.	Central Teachers College
Warsaw	Benton	687	47	35.1	− 0.5	74	18	4	9	53	1.36	−0.88	0.45	27	5.9§	9	13	4	12	ne.	Dora B. Johnson
Wasola	Ozark	1,294	7	37.8	......	74	17†	8	9	8	3.27	......	....	..	11.0	16	9	8	12	e.	A. W. Pinckney
Waynesville...1¼ mi. E	Pulaski	805	2	....	......	..	..	..	..	2	....	......	....	..	....	..	..	..	..	......	Fred M. Sanderson
Division means	**and extremes**	.....	..	**34.5**	**0.0**	**78**	**18**	**− 1**	**8**	..	**2 17**	**+0.19**	**1.34**	**27**	**7.3**	**10**	**9**	**6**	**14**	**ne.**	
Southeastern Division																					
Advance.... ¼ mile W	Stoddard	354	11	36.4	− 2.4	71	19	9	6	11	2.80	−0.96	0.70	12–13	7.8	10	5	5	19	n.	U. S. Weather Bureau
Arcadia	Iron	926	67	34.2	+ 0.1	73	17	5	7	70	2.37	−0.11	0.60	3–4	7.7§	9	6	6	17	e.	Arcadia College
Birch Tree... ½ mile E	Shannon	1.000	53	37.0	+ 0.7	73	18	7	9†	54	2.49	−0.01	0.48	4	7.8	13	14	7	8	n.	Mrs. Mildred E. Catlett
Black.......9 miles NW	Iron	1,000	55	33.2[b]	− 1.1	72[b]	17	0[b]	6	55	2.60§	+0.32	0.80	3–4	9.0	9	11[c]	2[c]	13[c]	......	J. Coruell Shy
Campbell	Dunklin	314	22	39.6	− 2.5	73	19	14	2	22	3.44	+0.11	0.77	24–25	0.7	13	10	7	12	s.	Mrs. Ruth Christian
Cape Girardeau	Cape Girardeau	347	3	38.1	......	69	18†	12	9†	48	3.22	+0.82	0.65	11–12	7.0	12	7	8	14	ne.	State Teachers College
Caruthersville	Pemiscot	265	52	41.5	+ 1.2	73	18	14	2	56	3.69	+0.31	0.91	25–26	2.6§	14	9	6	14	s	Victor T. Malloure
Clearwater Dam	Wayne	648	2	38.5	......	75	18	8	10	2	2.53	......	0.44	11	5.5	11	11	3	15	n.	U. S. Engineer Office
Crystal City	Jefferson	420	14	36.3	+ 1.1	74	18	0	6	14	1.78	−0.09	0.32	12–13	7.0	10	11	2	16	nw.	Richard K. Ragland
Doniphan	Ripley	344	44	39.6	+ 0.3	77	19	12	10	44	3.64	+0.33	0.84	12	2.5§	12	12	2	15	ne.	Boyce Lackey
Farmington	St. Francois	896	37	35.2	− 1.7	71	17†	7	8†	51	2.41	−0.11	0.36	13	9.8	12	10	3	16	s.	F. M. Karsch
Greenville ...1 mile SW	Wayne	415	39	38.8	+ 3.0	74	17	8	10	41	3.20	+0.48	0.66	11	9.2§	15	7	8	14	s.	Beuford Shoemake
Jackson	Cape Girardeau	428	57	37.7	+ 1.2	70	19	8	1	58	3.49	+0.61	0.54	11–12	8.0	13	5	10	14	s.	Danny Siebert
Koshkonong	Oregon	958	47	39.0§	− 0.1	72	17†	13	9	48	4.03	+1.17	0.95	24–25	3.2§	14	8	3	18	e.	Mrs. Genevieve T. Smith

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Climatological Data for February 1948—Continued from preceding page

Stations	Counties		Temperature, in degrees, Fahr.							Precipitation, in inches						Number of days					
		Elevation, feet	Length of record, years	Mean	Departure from the normal	Highest	Date	Lowest	Date	Length of record, years	Total	Departure from the normal	Greatest in 24 hours [4]	Date	Total snowfall, unmelted	With precip. .01 inch or more	Clear	Partly cloudy	Cloudy	Prevailing direction of wind	Observers
Southeastern Division—	*Concluded*																				
Licking...... 4 miles N	Texas	1,170	11	35.6	− 2.3	72	18	5	9	11	1.81	−0.60	0.39	5	6.2§	8	10	4	15	s.	Fern E. Austin
Marble Hill	Bollinger	532	53	35.6	− 1.0	69	17	9	6†	55	2.72	−0.36	0.40	24	*6.5*	13	13	6	10	n.	R. A. DeWitt
Poplar Bluff	Butler	339	43	39.8	+ 1.7	74	19	15	9†	44	3.55§	+0.66	0.64	5	5.9	13	9	7	13	nw.	Osmon M. Richardson
Rolla	Phelps	1,202	48	33.2	− 3.1	71	18	4	8	64	1.82§	−0.23	0.30	3–4	8.0	9	9	10	10	se.	Rolla School of Mines
St. Louis:																					
City Office		465	111	34.8	0.0	69	17	6	8	111	1.54	−1.09	0.54	27	5.3	9	9	6	14	s.	**Section Center**
St. Louis Airport	St. Louis	556	11	33.2	− 0.8	70	18	4	9	17	1.73	−0.57	0.68	27	7.5	8	8	5	16	w.	U. S. Weather Bureau
St. Louis University	St. Louis City	578	36	34.8	− 0.1	69	17†	7	8	36	1.51	−0.80	0.62	27	2.3	10	11	6	12	se.	St. Louis University
Salem	Dent	1,206	44	35.6	− 0.2	72	18	7	9	47	2.27	−0.01	0.42	11	7.0	11	10	6	13	s.	E. E. Martin
Sikeston	Scott	318	41	36.8	− 0.4	70	18†	10	1	51	3.65	+0.43	0.74	11	4.2§	11	10	5	14	n.	Mrs. Lucy W. Humphreys
Union ....1½ mi. SE	Franklin	520	10	33.8	− 3.6	72	18	− 4	22	31	1.14§	−1.06	0.35	13	3.4	9	12	3	14	n.	Cornelius Sieges
Vichy ....2 mi. NW	Maries	1,125	12	32.6	......	71	18	4	8	13	2.82	......	1.56	12–13	5.7	11	11	4	14	s.	Civil Aeronautics Adm.
Wappapello Dam	Butler	475	9	36.8	− 0.5	72	18	13	9†	9	3.52	−0.09	0.90	11	4.0	13	7	6	16	se.	U. S. Engineer Office
Webster Groves	St. Louis	507	2	34.6	......	70	18	5	8	3	1.69	......	0.54	27	3.6§	8	12	4	13	se.	R. W. Lawrie
Weingarten	St. Genevieve	833	7	34.8	......	69	17†	8	8†	8	2.46	......	0.47	27	5.5§	9	6	9	14	n.	William J. Miller
West Plains	Howell	1,005	11	36.3	− 2.3	73	18	10	1	11	3.01	−0.48	0.70	5	5.4	11	5	6	18	ne.	U. S. Weather Bureau
Willow Springs 500 ft E	Howell	1,238	7	36.2	......	73	18	7	9	41	3.22§	+0.66	0.66	5	9.5§	14	8	7	14	e.	Allen Frazee
Cairo, Ill.	Alexander, Ill.	314	76	38.7	+ 0.2	70	18	12	1	77	3.25	+0.03	0.80	11–12	4.4	12	6	4	19	ne.	U. S. Weather Bureau
Division means	**and extremes**	.....	..	**36.4**	**− 0.5**	**77**	**19**	**− 4**	**22**	..	**2.69**	**−0.03**	**1.56**	**12–13**	**5.9**	**11**	**9**	**6**	**14**	s.	
State means	**and extremes**	.....	..	**33.3**	**0.0**	**78**	**18**	**− 9**	**8**	..	**2.16**	**+0.07**	**1.65**	**27**	**6.3**	**10**	**9**	**6**	**14**	n.	

The departures from normal temperature are computed from the averages of the entire period for stations having 10 or more years of record. Departures of precipitation for stations with 15 years or more of record are computed from a normal or "standard mean", adjusted to a uniform 35-year period; for stations of 10 to 14 years the means for the period of record are used. The normal may be found by adding the departures when minus (−) or subtracting when plus (+). Figures and letters following stations indicate distance in miles and direction of station from the city Post Office, unless otherwise indicated. T. Trace or 0.005 inch or less. [a], [b], [c], etc., number of days missing; for example, [b], indicates two days missing. Italics data interpolated. § Partly interpolated. † And other dates. ‡ Received too late to be included in means and summaries. [4] Best available used for stations not equipped with recorders. Post office address of: Altona is Adrian; Clearwater Dam is Piedmont; Crane Mountain is Arcadia; East End is Goodland; Hailey is Cassville; High Lookout is Birch Tree; Macedonia Lookout is Doniphan; Oates Tower is Centerville; Perry is Center; Pineview Lookout is Cape Fair; Sugar Camp Lookout is Seligman; Topaz is Cabool; Wilderness Lookout is Lampe. (C) Airport. ¶ Indicates plus.

(Continued from page 9)

month, but remained dormant. Fruit buds also remained dormant throughout the month. Livestock were in good condition, as a rule, but were on dry feed throughout February as very little grazing or foraging was possible due to snow cover the first part of the month and wet, muddy fields the latter part. More moisture to replenish water supplies was needed in some of the drier areas of the southwestern quarter of the State at the close of the month.—M. R. W.

TEMPERATURE

The monthly mean for the State, 107 stations reporting, was 33.3°, or exactly the same as the 61-year February average. The highest monthly mean was 41.5° at Caruthersville, and the lowest was 25.6° at Unionville. The highest reported was 78° at Ozark Beach on the 18th, and the lowest was 9° below zero at Amity, Conception, Kidder, Maryville and Unionville on the 8th.

PRECIPITATION

The average for the State, 215 stations reporting, was 2.16 inches, or 0.07 inch more than the 61-year February average. The greatest monthly amount was 5.42 inches at Deering, and the least was 0.36 inch at Bethany. The greatest amount reported in 24 hours was 1.65 inches at Lucerne on the 27th. The average number of days with 0.01 inch, or more, was 10.

Snowfall averaged 6.3 inches, or 1.3 inches more than the 57-year February average. The greatest monthly snowfall reported was 12.0 inches at Bowling Green.

MISCELLANEOUS PHENOMENA

Floods.—In Grand River, at Chillicothe, on 28-29th. In Mississippi River, at Louisiana, 20th to 26th; in the reach from Hannibal to Louisiana on 29th and continued into March; at Cairo, Ill., and below, on 18th and continued into March.

Fogs.—Heavy, 1st, 2d, 3d, 4th, 5th, 6th, 7th, 11th, 13th, 16th, 17th, 19th, 24th, 25th, 26th, 27th, 28th.

Glaze.—2d, 3d, 4th, 5th, 6th, 7th, 11th, 12th, 13th, 14th.

Hail.—Light, on 27th at Elsberry, Fayette, Kirksville, Salisbury, Shelbina, Steffenville, Butler, Clinton, Kansas City University.

Sleet.—3d, 4th, 5th, 6th, 7th, 11th, 12th, 13th, 14th, 20th, 27th, 29th.

Windstorms.—27th. (See special storm table). High winds on several other days, but without damage.

ERRATA

October 1947, page 74: Mean temperature at Albany should be 63.5; mean temperature and departure at Campbell should be 66.5 and +6.4, respectively. Average temperature and departure for Southeastern Division should be 65.4 and +7.0, respectively.

November 1947, page 82: Mean temperature at Brookfield should be 38.0. Mean temperature and departure at Licking should be 41.6 and −3.7, respectively. Number of days with 0.01 inch or more of precipitation at Seymour should be 9.

December 1947, page 90: Mean temperature at Shelbina should be 34.6[a]. Page 91: Mean temperature at Webster Groves should be 38.3. Page 95: Mean minimum temperature at Joplin Airport should be 29.2.

Annual 1947, page 98: Mean temperature at Brookfield and Shelbina should be 53.2 and 53.5, respectively. Number of days with 0.01 inch or more of precipitation at Seymour should be 73. Page 102: Mean temperature for November at Brookfield should be 38.0; annual mean should be 53.2. Mean temperature for December at Shelbina should be 34.6[a]; annual mean should be 53.5. Page 103: Mean temperature and departure for November at Licking should be 41.6 and −3.7, respectively.

Daily Precipitation for February 1948

Stations	Drainage-basins	Day of month																															Total
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	..	..	
Northern Division																																	
Albany	Grand	....	....	*.10*	T.	T.	....	T.	....	....	*.03*	*.10*	T.	*.10*	....	....	....	....	....	....	....	*.20*	....	T.	.23	....	....	.35	.02	....	....	....	§1.13
Amity	....do	....	T.	.09	.03	....	....	T.	....	....	T.	.11	T.	.13	....	....	....	....	....	....	....	*.25*	....	T.	.19	T.	....	.50	.06	....	....	....	§1.36
Auxvasse	Missouri	....	....	.06	.23	T.	....	.01	....	....	....	.12	.05	.31	.02	....	....	....	....	....	....	.09	....	....	.10	.02	....	.68	....	....	....	....	1.69
Bethany	Grand	....	....	.03	.03	....	....	....	....	....	....	.02	....	.10	....	....	....	....	....	....	....	T.	....	....	.08	....	....	.10	....	....	....	....	0.36
Bowling Green[2]	Mississippi	....	....	....	.30	....	....	....	....	....	....	....	.15	....	.35	....	....	....	....	....	....	.25	....	....	....	.01	T.	.05	.10	....	....	....	1.21
Brookfield[2]	Grand	....	....	.03	.07	....	....	T.	....	....	....	T.	.24	T.	.12	....	....	....	....	....	....	....	....	....	.08	.04	....	.40	.52	....	....	....	1.50
Browning.....3 mi. NE	....do	....	....	.10	.02	T.	....	.01	....	....	T.	.14	T.	.16	....	....	....	....	....	....	....	T.	....	....	.34	T.	....	1.07	.05	....	....	....	1.89
Brunswick[2]	....do	....	....	.03	.09	....	....	.01	....	....	....	....	.15	.10	.15	....	....	....	....	....	....	.03	.02	....	.13	.08	T.	.22	.40	....	....	....	1.41
Canton, Lock No. 20[2]	Mississippi	.01	....	.01	.19	....	T.	.01	.01	....	....	....	.19	.04	.15	....	....	....	....	....	....	....	....	....	.02	.15	.01	.11	1.00	....	....	....	1.90
Carrollton	Missouri	....	....	.05	.09	....	....	.01	....	....	....	.20	.04	.22	....	....	....	....	....	....	....	.03	....	....	.05	.05	....	.62	....	....	....	....	1.36
Centralia[2]	Mississippi	*T.*	....	.03	.19	....	....	....	....	....	....	....	.19	.06	.10	....	....	....	....	....	....	.09	*T.*	....	.10	.16	.03	.42	.57	....	....	....	1.94
Chillicothe[2]......(B)	Grand	....	....	T.	.06	....	....	.01	....	....	....	T.	.14	.06	.04	....	....	....	....	....	....	.10	T.	....	.14	.06	T.	.30	1.20	....	....	....	2.11
Chillicothe[3] 2mi ESE(C)	....do	....	T.	.05	T.	....	T.	T.	....	....	....	.11	.04	.05	....	....	....	....	....	....	....	.10	....	T.	.20	.01	....	.93	....	T.	....	....	1.49
Columbia[1, 5]	Missouri	....	....	.29	.02	T.	T.	T.	....	....	....	.17	.10	.16	T.	....	....	....	....	....	....	.02	....	....	.16	.02	....	1.10	....	T.	....	....	2.04
Columbia[5]..9 mi. WNW	....do	....	....	.03	.22	T.	....	.01	....	....	....	.14	.08	.15	T.	....	....	....	....	....	....	.01	....	....	.09	.03	T.	.86	....	....	....	....	1.62
Conception	....do	....	....	.06	T.	....	....	....	....	....	T.	.04	T.	.16	....	....	....	....	....	....	....	.31	....	....	.21	....	....	.34	....	....	....	....	1.12
Edgerton[2]	....do	....	....	T.	.03	....	....	.02	....	....	....	.03	.06	.12	....	....	....	....	....	....	....	T.	.02	....	.07	.10	....	.37	.09	....	....	....	0.91
Edina[2]	Mississippi	....	....	T.	.20	....	....	T.	....	....	....	....	.21	T.	.20	....	....	....	....	....	....	....	....	....	T.	.09	....	T.	.90	....	....	....	1.60
Elsberry S.C.S.[2]	....do	.01	....	T.	.36	....	....	....	....	....	....	....	.01	.13	.39	....	....	....	....	....	....	.04	.01	....	T.	.08	T.	.15	.43	T.	....	....	1.61
Fayette	Missouri	....	....	.05	.12	....	....	....	....	....	....	.23	*T.*	.22	*T.*	....	....	....	....	....	....	*.10*	....	....	.07	.05	....	.86	....	....	....	....	§1.70
Fulton[2]	....do	....	....	....	.18	.02	*.06*	....	*T.*	....	....	....	.12	.08	.22	....	....	....	....	....	....	.02	.01	....	....	.14	....	.18	.50	....	....	....	§1.53
Gallatin[2]	Grand	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Grant City	....do	....	....	.05	T.	....	....	T.	....	....	T.	.04	T.	.12	....	....	....	....	....	....	....	....	....	....	*	.20	....	.47	....	....	....	....	0.88
Hannibal[1].........(A)	Mississippi	....	....	.12	.02	....	....	*T.*	....	....	....	.17	T.	.29	....	....	....	....	....	....	....	....	....	....	.26	.18	....	1.08	....	....	....	....	2.12
Hannibal[2].........(B)	....do	T.	....	T.	.14	T	....	....	....	....	....	....	.28	.05	T.	....	....	....	....	....	....	....	....	....	T.	.80	.11	.20	.38	....	....	....	1.46
Kahoka[2]	....do	*T.*	....	T.	.09	....	....	T.	*.04*	....	....	....	*.17*	.03	*.25*	....	....	....	....	....	....	....	....	....	T.	.12	....	.13	1.10	....	....	....	§1.93
Kansas City Airport[1, 5]	Missouri	....	T.	.06	.01	T.	T.	T.	....	....	....	.29	.13	T.	....	....	....	....	....	....	....	.01	....	T.	.11	T.	T.	.33	....	T.	....	....	0.94
Kidder[2]	Grand	....	....	....	.07	....	....	.02	....	....	....	.06	*.10*	*	*.16*	....	....	....	....	....	....	*.20*	....	....	.11	.09	....	.49	.24	....	....	....	§1.54
King City	Missouri	....	....	.28	....	....	....	....	....	....	T.	.09	....	....	....	....	....	....	....	....	....	.36	....	T.	.41	.11	....	.27	.07	....	....	....	1.59
Kirksville	Mississippi	....	....	.10	.05	T.	....	....	....	....	....	*.12*	....	.10	....	....	....	....	....	....	....	....	....	....	.23	....	....	1.32	....	....	....	....	§1.92
Kirksville Airport[3, 5]	....do	....	T.	.06	.04	T.	T.	T.	....	....	....	.10	.02	.17	....	....	....	....	....	....	T.	T.	....	....	.17	.01	....	1.37	....	T.	....	....	1.94
LaBelle[2]	....do	.10	....	T.	*.20*	....	....	*T.*	....	....	....	....	*.20*	*T.*	*.10*	....	....	....	....	....	....	....	....	....	*	.26	....	.17	.91	....	....	....	§1.94
Lathrop	Grand	....	....	.20	.10	....	....	....	....	....	....	*.05*	*	.24	....	....	....	....	....	....	....	.10	....	....	.20	T.	....	.60	....	....	....	....	§1.49
Linneus	....do	....	....	.02	.02	....	....	T.	....	....	....	.10	.05	.15	....	....	....	....	....	....	....	*.25*	....	....	.29	.06	....	.93	T.	....	....	....	§1.87
Louisiana ....(A)	Mississippi	....	....	.12	.20	....	....	.02	....	....	....	.15	.05	.25	.05	....	....	....	....	....	....	.10	....	....	.10	.03	.08	.55	....	....	....	....	1.70
Louisiana[2].........(B)	....do	.01	....	T.	.18	T.	....	....	....	....	....	....	.11	T.	.31	....	....	....	....	....	....	.02	T.	....	....	.11	.08	.05	.40	....	....	....	1.27
Lucerne[2]	Grand	....	....	T.	*.03*	....	....	T.	....	....	....	*.07*	....	.08	*T.*	....	....	....	....	....	....	....	....	....	.25	*T.*	....	.35	1.30	....	....	....	§2.08
Macon[2]	Chariton	....	....	T.	.08	....	....	T.	T.	....	....	....	.16	.06	....	....	....	....	....	....	....	.02	....	....	.04	.13	T.	.20	.60	....	....	....	1.29
Madison[2]	Mississippi	....	....	....	.12	....	....	....	....	....	....	....	.25	....	*.20*	....	....	....	....	....	....	.18	....	....	....	.28	.10	....	1.45	....	....	....	§2.58
Martinsburg[2]	Missouri	T.	....	.01	.33	.04	T.	T.	*T.*	....	....	....	.16	.16	.26	....	....	....	....	....	....	.05	.03	....	....	.23	.02	.08	.37	....	....	....	1.74
Maryville	....do	....	....	.10	....	....	....	.06	....	....	T.	.05	....	.15	....	....	....	....	....	....	T.	.15	....	....	.25	....	....	.55	.05	....	....	....	1.36
Memphis[2]	Mississippi	....	....	T.	.10	....	....	T.	T.	....	....	*T.*	*.08*	*.05*	*.20*	....	....	....	....	....	....	....	....	....	.08	*.06*	....	.27	.93	....	....	....	§1.77
Mexico[2]	....do	*T.*	....	....	.27	*T.*	....	....	....	....	....	*T.*	.14	.09	.22	....	....	....	....	....	....	.05	*T.*	....	....	.17	.04	.13	.64	....	....	....	1.75
Milan[2]	Grand	....	....	.04	.04	....	....	T.	....	....	....	.08	....	.03	.03	....	....	....	....	....	....	....	....	....	.19	....	....	.49	.60	....	....	....	1.50
Moberly[2] ....3½ mi. NE	Mississippi	....	....	*.04*	*.06*	....	....	....	*T.*	....	....	....	*	*.25*	*.15*	....	....	....	....	....	....	*.12*	....	....	.10	*	*	*	1.80	....	....	....	§2.52
Monroe City	....do	....	....	.05	*.08*	....	....	....	....	....	....	.16	....	.20	....	....	....	....	....	....	....	....	....	....	.20	.23	....	1.27	.16	....	....	....	§2.35
New Florence[3, 5] 1 mi SE	Missouri	....	....	.22	T.	.01	T.	T.	....	....	....	.06	.21	.20	T.	....	....	....	....	....	....	.03	....	....	.09	T.	....	.65	....	T.	....	....	1.47
Oregon[1]	....do	....	....	*.03*	....	....	T.	....	....	....	T.	T.	*.20*	T.	....	....	....	....	....	....	T.	*.20*	....	T.	.11	....	....	.50	....	T.	....	....	§1.04
Palmyra[2]	Mississippi	....	....	T.	*.15*	....	....	....	.02	....	....	....	*.25*	.05	.15	....	....	....	....	....	....	....	....	....	.01	.30	T.	.29	.82	....	....	....	§2.04
Paris[2]	....do	T.	....	....	.05	T.	....	....	....	....	....	....	.22	.09	.14	....	....	....	....	....	....	*.20*	....	....	.13	.20	.12	.16	.88	....	....	....	§2.19
Perry ....1 mile E	....do	....	....	....	*.15*	....	....	....	....	....	....	*.15*	....	.30	....	....	....	....	....	....	....	*.12*	....	....	.20	.07	....	.90	....	....	....	....	§1.89
Philadelphia	....do	....	....	.08	T.	....	....	....	....	....	....	.12	....	.30	T.	....	....	....	....	....	....	....	....	....	.25	.10	....	1.34	....	....	....	....	2.19
Polo[2]	Missouri	....	....	*T.*	.10	....	....	*T.*	....	....	....	.05	.15	.12	*T.*	....	....	....	....	....	....	*.16*	*T.*	....	.08	.11	T.	.27	.30	....	....	....	§1.34
St. Charles[2]	....do	.01	....	.01	.30	.01	.06	....	T.	....	....	....	.05	.09	.49	....	....	....	....	....	....	.06	.05	....	....	.05	.02	.13	.35	....	....	....	1.68
St. Joseph Airport[1, 5]	....do	....	T.	.15	T.	T.	T.	T.	....	....	T.	.06	.09	.02	....	....	....	....	....	....	....	.09	....	T.	.19	....	T.	.41	....	....	....	....	1.01
Salisbury	Chariton	....	....	.01	.08	....	....	.02	....	....	....	.19	.01	.23	....	....	....	....	....	....	....	.05	....	....	.10	.13	....	.63	....	....	....	....	1.45
Saverton, Lock No. 22[2]	Mississippi	T.	....	.02	.10	T.	....	....	T.	....	....	....	.18	.06	.26	....	....	....	....	....	....	.01	T.	....	.05	.22	.15	.04	.41	....	....	....	1.50
Shelbina	....do	....	....	.06	.05	....	....	T.	....	....	....	.19	T.	*	.22	....	....	....	....	....	....	T.	....	....	.14	.18	T.	1.24	....	....	....	....	2.08
Shelbyville	....do	....	....	.15	....	....	....	....	....	....	....	.13	....	....	....	....	....	....	....	....	....	....	....	....	.22	.16	....	.98	....	....	....	....	1.64
Steffenville	....do	....	....	.07	.03	....	....	.01	....	....	....	.14	T.	.14	.02	....	....	....	....	....	....	....	....	....	.12	.09	.04	1.14	....	....	....	....	1.80
Tarkio[3]	Missouri	....	T.	.03	T.	....	T.	T.	....	....	T.	T.	.11	.01	....	....	....	....	....	....	T.	.11	....	.01	.10	....	T.	.99	....	.11	....	....	1.47
Trenton[2]	Grand	....	....	.05	*.18*	T.	....	.01	T.	....	....	.02	.12	.09	.03	....	....	....	....	....	....	*.15*	....	....	.11	.06	....	.40	.58	....	....	....	§1.80
Troy[2]	Mississippi	*.05*	....	T.	.25	T.	T.	....	....	....	....	....	.03	.02	.36	....	....	....	....	....	....	*	*.10*	....	....	.07	....	.05	.38	....	....	....	§1.31
Unionville[2]	Chariton	....	....	.01	.10	....	....	....	....	....	....	....	.06	.13	.02	....	....	....	....	....	....	....	....	....	.12	.03	....	.86	.56	....	....	....	1.39
Vandalia	Mississippi	....	....	.10	.25	....	....	T.	....	....	....	.20	*T.*	.10	.10	....	....	....	....	....	....	.20	....	....	.20	.05	....	.55	....	....	....	....	1.75
Warrenton	....do	....	....	.10	.12	T.	T.	T.	....	....	....	.05	T.	.33	.08	....	....	....	....	....	....	.12	....	....	.04	T.	T.	.41	....	....	....	....	1.25
Keokuk, Iowa[1]	....do	....	T.	.13	....	....	T.	T.	....	....	....	.14	T.	.17	....	....	....	....	....	....	....	....	....	....	.14	T.	....	1.39	....	T.	....	....	1.97
Southwestern Division																																	
Altona[2]	Osage	....	....	T.	.22	....	T.	....	....	....	....	....	.40	....	T.	....	....	....	....	....	....	T.	*T.*	....	....	.22	....	.30	.60	....	....	....	1.74
Anderson[2]...1½ mi. SW	Neosho	....	....	.23	.39	T.	.75	....	....	....	....	T.	.33	.57	.08	....	....	....	....	....	....	T.	....	....	....	.10	.42	.36	....	....	....	....	3.23
Appleton City	Osage	....	....	.10	.12	.05	.09	T.	....	....	....	.10	.10	.22	....	....	....	....	....	....	....	.12	....	....	.11	.04	T.	.40	....	....	....	....	1.45
Ava Ranger Station[2]	White	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Bolivar	Osage	....	....	.07	.28	.23	....	T.	....	....	....	.01	.28	.14	....	....	....	....	....	....	....	.18	....	....	.03	.09	.04	.54	....	....	....	....	1.89
Boonville[2] ....(A)	Missouri	....	....	T.	.22	....	....	T.	....	....	....	.18	.05	.10	.16	....	....	....	....	....	....	.01	.01	....	T.	.09	.02	.24	.45	T.	....	....	1.53
Boonville[2] ....(B)	....do	....	....	T.	.23	.01	....	....	....	....	....	....	.24	.10	.15	....	....	....	....	....	....	.02	.03	....	T.	.09	.02	.15	.62	....	....	....	1.66
Bradleyville[2]	White	....	....	.20	.40	.15	.81	....	....	....	....	....	.38	T.	.38	....	....	....	....	....	....	.10	....	....	.21	.42	.29	.28	.27	....	....	....	3.89
Buffalo[2]	Osage	....	....	.05	.22	.03	.25	T.	....	....	....	....	.04	.52	.05	....	....	....	....	....	....	.20	....	....	.02	.17	.04	.12	.28	....	....	....	1.99
Butler	....do	....	....	.09	.17	.06	....	.01	....	....	....	.19	.08	.11	....	....	....	....	....	....	....	.12	....	....	.22	.02	....	.59	....	....	....	....	1.66
Camdenton	....do	....	....	.50	....	.32	....	....	....	....	....	....	.20	.30	....	....	....	....	....	....	....	.15	....	....	.34	....	....	.45	....	....	....	....	2.26
Caplinger Mills[2]	....do	....	....	.06	.14	....	.11	T.	T.	....	....	....	....	.15	.18	....	....	....	....	....	....	.08	....	....	....	.03	T.	.14	.43	....	....	....	1.32
Carthage	Neosho	....	....	*	.25	.34	....	....	....	....	....	....	.33	.20	....	....	....	....	....	....	....	.07	....	....	.05	.08	....	.69	....	....	....	....	2.01
Cassville[2]	White	....	....	.19	.17	.17	.69	T.	*T.*	....	....	.13	.21	.50	.08	....	....	....	....	....	....	.06	*T.*	....	.02	.06	.26	.59	.12	....	....	....	3.25
Chadwick[2]	....do	....	....	.32	.26	....	.63	....	....	....	....	....	.39	.48	T.	....	....	....	....	....	....	....	....	....	....	.56	.25	.30	.24	....	....	....	3.43
Clinton[3]	Osage	....	....	.18	T.	.11	....	T.	....	....	....	.22	.07	.20	....	....	....	....	....	....	....	.04	....	....	.08	T.	....	.88	....	....	....	....	1.28
Concordia	Missouri	....	....	T.	.05	....	....	.09	....	....	....	.15	T.	.25	....	....	....	....	....	....	....	.05	....	....	.16	.24	....	.88	....	....	....	....	1.87
Crocker	Osage	....	T.	T.	.20	.21	....	....	....	....	....	T.	.39	.25	....	....	....	....	....	....	....	.18	....	....	.15	.02	T.	.30	....	....	....	....	1.70
Eldon	Missouri	....	....	.03	.14	.06	T.	T.	....	....	....	.06	.09	.24	....	....	....	....	....	T.	....	.04	....	....	.25	.02	T.	.61	....	....	....	....	1.54
Eldorado Springs	Osage	....	....	.11	T.	.25	....	....	....	....	....	T.	.22	.18	....	....	....	....	....	....	....	.05	....	....	.06	.13	....	.33	....	....	....	....	1.33
Elijah[2]	White	....	....	....	....	*.40*	....	....	....	....	....	....	*	1.30	....	....	....	....	....	....	....	*.10*	....	....	1.00	*	.75	....	....	....	....	....	§3.55
Forsyth[2]	....do	....	....	.20	.10	.05	.60	....	....	....	....	.05	.20	.45	.30	....	....	....	....	....	....	.01	.02	....	.05	.45	.15	.30	.40	....	....	....	3.33
Galena[2]	....do	....	....	.13	.27	.08	.75	.20	....	....	....	.06	.21	.62	.20	....	....	....	....	....	....	.10	T.	....	.02	.13	.31	.54	.27	....	....	....	3.89
Granby[2]	....do	T.	....	.06	.22	....	.42	....	....	....	....	.05	07	.47	.15	....	....	....	....	....	....	T.	....	....	....	.05	.15	.46	.06	....	....	....	2.16
Hailey	....do	.02	....	.10	T.	1.24	....	....	....	....	.30	.71	T.	....	....	....	....	....	....	....	....	.05	....	....	.23	.31	.25	.30	....	....	....	....	3.51
Harrisonville[2]	Osage	T.	....	.01	.14	*T.*	.01	....	....	....	....	....	.23	.15	.02	....	....	....	....	....	....	T.	....	....	T.	.07	....	.23	.13	....	....	....	0.99
Jefferson City[2] ....(A)	Missouri	....	....	....	.11	T.	.01	T.	....	....	....	T.	.07	.12	.26	....	....	....	....	....	....	.05	*T.*	....	....	.05	T.	.06	.50	....	....	....	1.23
Jefferson City[2].....(B)	....do.	....	....	....	.17	T.	.05	....	T.	....	....	T.	.08	.17	.17	....	....	....	....	....	....	.09	T.	....	....	.29	T.	.06	.43	....	....	....	1.51
Joplin Airport[3]	Neosho	....	T.	.26	.07	.19	T.	T.	T.	....	....	.02	.24	.11	....	....	....	....	....	....	T.	.10	....	....	.15	.04	.05	.57	....	....	....	....	1.80
Kansas City University	Missouri	....	....	.01	.04	....	....	T.	....	....	....	.20	.07	.10	....	....	....	....	....	....	....	.01	....	....	.08	.01	....	.26	T.	....	....	....	0.78
Lakeside[2, 5]	Osage	*T.*	....	T.	.21	T.	.08	T.	.01	....	....	....	.02	.32	.15	....	....	....	....	....	....	.04	T.	....	.08	.20	T.	.12	.32	....	....	....	1.55
Lamar[2]	Neosho	T.	....	....	....	....	.35	....	....	....	....	....	.05	.12	.15	....	....	....	....	....	....	.10	....	....	T.	.10	....	.20	T.	....	....	....	1.07

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Stations	Drainage basins	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	..	..	Total
Southwestern Division—	*Concluded*																																
Lebanon	Osage	....	....	.08	....	.19	.01	....	....	....	....	T.	.46	.22	....	....	....	....	....	....	....	.16	....	....	.08	.07	.01	.62	....	....	....	....	1.90
Lexington[2]	Missouri	....	....	.01	.03	T.	....	T.	T.	....	....	*	.15	.06	.05	....	....	....	....	....	....	T.	T.	....	T.	.08	.01	.40	.94	....	....	....	1.73
Lockwood	Osage	....	....	.02	.32	.23	....	....	....	....	....	....	.37	.15	....	....	....	....	....	....	.09	....	....	....	.06	T.	....	.78	....	....	....	....	2.02
Mansfield[2]	White	....	....	T.	.31	....	.71	....	....	....	....	....	.36	T.	.58	....	....	....	....	....	....	T.	.13	....	.05	.36	T.	.11	.21	....	....	....	2.82
Marshall	Missouri	....	....	.03	.06	T.	....	T.	....	....	....	.09	.05	.20	....	....	....	....	....	T.	....	.02	....	....	T.	.06	....	.58	T.	....	....	....	1.09
Marshfield	White	....	....	T.	.32	*	.32	....	....	....	....	.02	.34	.21	....	....	....	....	....	....	....	.10	....	....	.05	.03	.06	.48	....	....	....	....	1.93
Monett[2]	Neosho	T.	....	.05	.33	.07	.50	T.	T.	....	....	T.	.33	.35	.04	....	....	....	....	....	....	T.	....	....	....	.18	.20	.50	.08	....	....	....	2.63
Mountain Grove[2]	Gasconade	....	....	.10	.12	.02	.62	....	....	....	....	....	.28	.23	.20	....	....	....	....	....	....	.12	.02	....	.05	.35	T.	.10	.27	....	....	....	2.48
Mount Vernon[2]	Neosho	....	....	.04	.06	.33	.48	....	....	....	....	....	....	.62	.15	....	....	....	....	T.	....	....	....	....	....	.07	.05	.70	.02	....	....	....	2.52
Neosho	....do	....	....	.06	.23	.50	....	.03	....	....	....	.20	....	.74	*T.*	....	....	....	....	....	.02	....	....	....	.01	.07	.22	.40	....	....	....	....	2.48
Nevada	Osage	....	....	.09	.10	.17	....	T.	....	....	....	T.	.18	.14	....	....	....	....	....	....	....	.07	....	....	.03	.14	....	.72	....	....	....	....	1.64
Osceola[2]	....do	....	....	....	.02	.10	.08	T.	....	....	....	....	.04	.10	.23	....	....	....	....	....	....	.06	....	....	....	.10	T.	.10	.70	....	....	....	1.53
Ozark[2]	White	....	....	.15	.30	T.	.70	....	....	....	....	....	.21	.29	.10	....	....	....	....	....	....	.10	T.	....	....	.11	.04	.20	.22	....	....	....	2.42
Ozark Beach[2]	....do	....	....	.27	.07	.17	.68	....	....	....	....	.08	.12	.52	.03	....	....	....	....	....	....	.05	T.	....	.10	.50	.13	.32	.18	....	....	....	3.22
Pierce City	Neosho	....	....	.09	.20	.60	....	T.	....	....	....	.15	.65	.15	....	....	....	....	....	....	....	T.	....	....	T.	.15	.30	.72	....	....	....	....	3.01
Pineview Lookout[2]	White	....	....	.20	.17	.25	.67	....	....	....	....	.07	.29	.50	.20	....	....	....	....	....	....	.09	....	....	.04	.03	.26	.50	.04	....	....	....	3.31
Pleasant Hill[2]	Osage	....	....	T.	.03	*.05*	T.	T.	T.	....	....	....	.06	.04	.05	....	....	....	....	....	....	T.	T.	....	.01	.10	.02	.26	.33	....	....	....	§0.95
St. Thomas[2]. 2¼mi SW	....do	....	....	....	.18	....	.08	....	....	....	....	....	.07	*.04*	.16	....	....	....	....	....	....	.04	....	....	....	.08	....	.05	.51	....	....	....	§1.21
Sedalia	Missouri	....	....	.02	.25	.03	....	....	....	....	....	.26	.08	.19	....	....	....	....	....	....	....	.05	....	....	.03	.03	....	.48	....	....	....	....	1.42
Seligman[2]	Neosho	....	....	.26	.15	.15	.55	....	....	....	....	....	.31	.42	.40	....	....	....	....	....	....	T.	T.	....	....	T.	.43	.92	....	....	....	....	3.59
Seymour[2] ..... 4 mi. E	White	....	....	.26	....	....	.61	T.	....	....	....	....	.29	.32	.13	....	....	....	....	....	....	.09	.06	....	.06	.28	.12	....	.39	....	....	....	2.61
Shell Knob[2]...3 mi. SE	....do	....	....	.20	.17	.25	.67	....	....	....	....	.07	.29	.50	.20	....	....	....	....	....	....	*.09*	T.	....	.07	.08	.26	.65	.04	....	....	....	§3.54
Springfield[1,5]. 4 mi. NW	Osage	....	T.	.29	.03	.41	T.	T.	T.	....	....	.02	.49	.13	....	....	....	....	....	....	T.	.06	....	....	.05	.05	.02	.32	....	....	....	....	1.87
Stover[2]	Missouri	....	....	....	.21	....	.05	....	....	....	....	....	.14	....	.21	....	....	....	....	....	....	....	.05	....	....	.04	....	.45	T.	....	....	....	1.15
Sugar Camp Lookout[2]	White	....	....	.20	.22	.16	.67	....	....	....	....	....	*.31*	*.42*	*.40*	....	....	....	....	....	....	....	....	....	.02	.01	*.43*	*.92*	....	....	....	....	§3.76
Sweet Springs	Missouri	....	....	.03	.13	....	....	.02	....	....	....	.21	.01	.29	....	....	....	....	....	....	....	.02	....	....	T.	.05	....	.76	....	....	....	....	1.52
Tecumseh[2]. ..¼ mi. W	White	....	....	T.	.25	.20	.45	....	....	....	....	....	.36	.58	T.	....	....	....	....	....	....	.10	T.	....	.22	.92	.49	.04	.26	....	....	....	3.87
Topaz[2]	....do	....	.15	.16	....	*	.68	....	....	....	....	*	.44	.32	.18	....	....	....	....	....	....	*	.16	....	....	.74	.08	.22	.18	....	....	....	3.31
Vanzant[2]....3¾ mi. SE	....do	....	.07	.10	....	*T.*	.60	....	....	....	....	*	.43	.31	.28	....	....	....	....	....	....	.12	.01	*	.15	.48	.04	.27	.23	....	....	....	3.09
Waco[2]	Spring	T	....	.08	.31	T.	.27	....	T.	....	....	T.	T.	.31	.11	....	....	....	....	T.	....	.10	....	....	....	.14	.07	.18	.53	....	....	....	2.10
Warrensburg	Missouri	....	....	.04	.20	.02	....	T.	....	....	....	.22	.02	.23	....	....	....	....	....	....	....	.02	....	....	.02	.04	....	.35	....	....	....	....	1.16
Warsaw ....(A)	Osage	....	....	.02	.10	.05	T.	T.	....	....	....	.05	.12	.26	....	....	....	....	....	....	....	.25	....	....	T.	.06	T.	.45	....	....	....	....	1.36
Warsaw[2]..........(B)	....do	....	....	T.	.14	....	.08	T.	....	....	....	....	T.	.23	.07	....	....	....	....	....	....	.09	....	....	....	.09	....	.15	.31	....	....	....	1.16
Wasola[2]	White	....	....	....	.13	*	.75	....	....	....	....	.14	.35	.29	.22	.08	....	....	....	....	....	.09	.03	.20	.44	.26	.09	.03	.17	....	....	....	3.27
Waverly[2]	Missouri	....	....	.02	.03	T.	T.	T.	T.	....	....	....	.12	.05	.11	....	....	....	....	....	....	*.02*	T.	....	.08	.05	T.	.17	.46	....	....	....	§1.11
Waynesville...1½ mi. E	Gasconade	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Weaubleau[2]	Osage	....	*	*	.23	*T.*	.06	....	....	....	....	....	*	.35	....	....	....	....	....	....	....	*	*	*	.70	....	....	....	....	....	....	....	1.34
Wilderness Lookout[2]	White	....	....	.15	.02	.18	.70	....	....	....	....	....	.29	.50	....	....	....	....	....	....	....	*	.07	....	.01	.34	.24	.30	.09	....	....	....	2.89
Southeastern Division																																	
Advance[3].....¼ mile W	St. Francis	....	....	.11	.48	.38	T.	T.	....	....	....	.41	.30	.47	T.	....	....	....	....	....	T.	.06	....	....	.21	.04	T.	.34	....	....	....	....	2.80
Alton.......10 miles SE	Black	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Annapolis[2].....7 mi. W	....do	.02	....	T.	.39	....	.47	....	....	....	....	T.	.38	.20	.41	....	....	....	....	....	....	.09	.01	....	....	.23	.07	.06	.38	....	....	....	2.71
Arcadia[2]	St. Francis	.07	....	T.	.60	....	.45	....	....	....	....	....	.30	....	.20	....	....	....	....	....	....	.10	.12	....	....	*T.*	*T.*	.23	.30	....	....	....	2.37
Belleview[2]	Meramec	....	....	T.	.34	T.	.38	....	....	....	....	....	.39	.10	.14	....	....	....	....	....	....	.10	.10	....	T.	.05	.20	.02	.53	....	....	....	2.35
Bernie[2]	St. Francis	....	....	....	.46	.11	.61	....	....	....	....	....	.63	.26	.41	....	....	....	....	....	....	.13	....	....	....	.32	.29	.16	.32	....	....	....	3.70
Birch Tree[2] ...½ mile E	Black	....	....	*	.35	.48	....	....	....	....	....	....	.36	.35	.12	....	....	....	....	....	....	.15	.05	....	.14	.20	*	.04	.25	....	....	....	2.49
Black...... 9 miles NW	....do	....	....	*T.*	.80	*	*.45*	....	....	....	....	.43	.10	.19	....	....	....	....	....	....	....	*.25*	....	....	T.	.02	.01	.35	T.	....	....	....	§2.60
Bloomfield[2]	St. Francis	T.	....	....	.53	....	.55	....	....	....	....	....	.63	.33	.40	....	....	....	....	....	....	T.	.02	T.	....	.18	.24	....	.31	....	....	....	3.19
Bunker[2]... 4 miles NW	Black	....	T.	.05	.62	....	.45	....	....	....	....	....	.45	.28	.17	....	....	....	....	....	....	.30	....	....	T.	.15	.20	.10	....	....	....	....	2.77
Campbell	St. Francis	....	....	T.	.34	.40	.10	.03	T.	....	....	.16	.53	.48	.02	....	....	....	....	....	....	.02	....	....	.02	.77	.30	.27	....	....	....	....	3.44
Cape Girardeau....(A)	Mississippi	....	....	.08	.50	.25	.15	....	....	....	....	.20	.65	.50	.10	....	....	....	....	....	....	.15	....	....	.09	.25	T.	.30	....	....	....	....	3.22
Cape Girardeau[2]...(B)	....do	.05	....	T.	.54	....	.42	....	....	....	....	....	.64	.27	.35	....	....	....	....	....	....	T.	.25	....	T.	.26	.11	....	.28	....	....	....	3.17
Caruthersville[2]	....do	.03	....	....	.61	.02	.36	.03	.08	....	....	....	.51	.15	.25	....	....	....	....	....	....	....	.20	....	....	.23	.91	.05	.26	....	....	....	3.69
Centerville(1)[2]	Black	....	....	.06	.40	....	.43	....	....	....	....	....	.36	.27	.19	....	....	....	....	....	....	.20	.03	....	....	.23	.33	.09	.39	....	....	....	2.98
Centerville(2)[2]	....do	.03	....	T.	.44	....	.45	....	T.	....	....	T.	.35	.14	.32	....	....	....	....	....	....	.12	.09	....	....	.15	.25	.06	.44	....	....	....	2.84
Clearwater Dam[2]	....do	T.	....	T.	.38	....	.27	....	....	....	....	T.	.44	.21	.42	....	....	....	....	....	....	.01	.01	....	T.	.37	.03	.08	.31	....	....	....	2.53
Cook Station[2]	Meramec	....	....	....	.31	....	.24	....	....	....	....	....	.52	.16	.32	....	....	....	....	....	....	*	.17	....	....	.12	.03	.06	.24	....	....	....	2.17
Crane Mountain[2]	St. Francis	....	....	T.	.53	....	.40	....	....	....	....	.01	.38	.02	.51	....	....	....	....	....	....	.15	.05	....	....	.24	.58	.08	.33	....	....	....	3.28
Crystal City	Mississippi	....	....	.20	.02	.27	....	....	....	....	....	.15	.23	.32	.15	....	....	....	....	....	....	*	.24	....	T.	....	....	.20	....	....	....	....	1.78
Cuba	Meramec	....	....	.05	.21	.22	.02	....	....	....	....	.11	.08	.46	.02	....	....	....	....	....	.12	....	....	.10	T.	.02	.28	T	....	....	....	....	1.69
Deering[2]	St. Francis	T.	....	....	1.00	T.	.52	....	.05	....	....	....	1.17	.69	.34	....	....	....	....	....	....	....	.15	....	....	.54	.56	.04	.36	....	....	....	5.42
De Soto	Mississippi	....	....	.08	.16	.22	.03	....	....	....	....	.19	.20	.35	.10	....	....	....	....	....	....	.24	T.	....	.05	.01	.04	.60	....	....	....	....	2.27
Dexter[2]	St. Francis	.06	....	....	.59	....	.55	....	.02	....	....	....	.59	.31	.40	....	....	....	....	....	....	....	.06	....	....	.20	.42	.07	.32	....	....	....	3.59
Doniphan(1)	Black	....	....	*T.*	.34	.59	.11	.01	....	....	....	.36	.34	.50	....	....	....	....	....	....	....	.09	....	....	.44	.41	.11	.34	....	....	....	....	3.64
Doniphan(2)[2]	....do	....	....	....	.35	.05	.71	....	....	....	....	....	.42	.34	.37	....	....	....	....	....	....	T.	.15	....	....	.53	.57	.03	.34	....	....	....	3.86
East End[2]	Meramec	.04	....	....	....	.35	.25	....	....	....	....	....	*.36*	*.05*	*.28*	....	....	....	....	....	....	.12	.05	....	....	....	.20	.10	.37	....	....	....	§2.17
Ellington[2]	Black	....	....	T.	.40	T.	.60	....	....	....	....	T.	.43	.20	.36	....	....	....	....	....	....	*.10*	.16	....	T.	.20	.05	....	.40	....	....	....	§2.90
Ellsinore	....do	....	....	.02	.36	.95	.22	T.	....	....	....	.65	.25	.30	.04	....	....	....	....	....	....	.20	....	....	.31	.20	.08	.32	....	....	....	....	3.90
Farmington[2]	St. Francis	.04	....	T.	.33	T.	.31	....	....	....	....	....	.34	.18	.36	....	....	....	....	....	....	.04	.09	....	....	.11	.24	.03	.34	....	....	....	2.41
Fisk[2]	....do	T.	....	....	.55	.07	.30	....	T.	....	....	T.	.80	.33	.39	....	....	....	....	....	T.	....	.16	T.	T.	.30	.45	.10	.30	....	....	....	3.75
Fredericktown[2]	St. Francis	.04	....	.01	.54	....	.48	....	....	....	....	....	.28	.26	.46	....	....	....	....	....	....	.10	.12	....	....	.10	.46	T.	.40	....	....	....	3.25
Fremont[2]	Black	*.05*	....	.10	.40	T.	.50	....	....	....	....	....	....	....	.25	.26	....	....	....	....	....	*	.16	....	.01	.30	.02	.06	.25	....	....	....	§2.36
Gerald	Meramec	....	....	.05	*T.*	.34	....	*T.*	....	....	....	*T.*	.15	.17	....	....	....	....	....	....	....	.12	....	....	.11	*T.*	....	.44	....	....	....	....	1.38
Greenville[2] .. 1 mi. SW	St. Francis	.03	....	.01	.49	....	.54	....	....	....	....	.01	.65	.23	.50	....	....	....	....	....	....	.07	.03	....	.02	.26	.07	.03	.26	....	....	....	3.20
Hermann[2]	Missouri	....	....	....	.22	....	*T.*	....	....	....	....	....	.05	.09	.35	....	....	....	....	....	....	.05	.05	....	....	.09	....	....	.63	....	....	....	1.53
High Lookout	Black	....	....	.10	.17	.56	T.	....	....	....	....	.37	.27	.25	T.	....	....	....	....	....	....	.26	....	....	.23	.12	.09	.23	....	....	....	....	2.65
Jackson	Mississippi	....	....	.04	.48	.40	.07	....	T.	....	....	.32	.54	.51	.08	....	....	....	....	....	....	.16	....	....	.05	.24	.09	.51	....	....	....	....	3.49
Jerome[2]	Gasconade	....	....	T.	.18	T.	.21	....	....	....	....	....	....	.23	.26	....	....	....	....	....	....	.07	....	....	.06	.28	T.	.04	*.42*	....	....	....	§1.75
Koshkonong[2]	Black	....	....	*	.18	.08	.57	....	....	....	....	T.	.43	.44	.23	....	....	....	....	....	....	.07	.09	....	.07	.95	.58	.06	.28	....	....	....	4.03
Leeper[2]	....do	T.	....	.01	.41	T.	.51	....	....	....	....	.02	.53	.28	.23	....	....	....	....	....	....	.09	.03	....	T.	.29	.09	.06	.42	....	....	....	2.97
Licking[2]	Gasconade	....	....	....	.25	....	.39	....	....	....	....	....	.25	.18	.20	....	....	....	....	....	....	.14	....	....	....	....	....	.20	.20	....	....	....	1.81
Macedonia Lookout[2]	Black	*T.*	....	T.	.35	*	.63	....	....	....	....	....	.44	.37	.34	....	....	....	....	....	....	.01	.17	....	T.	.52	.25	.13	.18	....	....	....	3.39
Marble Hill	Mississippi	....	....	.25	.24	.04	.05	....	.20	.22	....	.30	.27	....	....	....	....	....	....	....	....	.25	....	....	.22	.18	.18	.32	....	....	....	....	2.72
Morehouse	....do	....	....	.04	.56	.34	.16	....	....	....	....	.07	.71	.53	.06	....	....	....	....	....	....	.08	....	....	T.	.28	.10	.28	....	....	....	....	3.21
Moselle[2]	Meramec	....	....	....	....	....	*	....	....	....	....	....	*	*	*.90*	....	....	....	....	....	....	T	.01	....	....	....	.02	.03	.37	....	....	....	§1.33
New Madrid[2]	Mississippi	*.14*	....	T.	.37	T.	.42	.37	....	....	....	....	.77	.39	.52	....	....	....	....	....	....	....	.11	....	....	.64	.42	.12	.44	....	....	....	§4.71
Oates Tower[2]	Black	T.	....	.01	.32	....	.33	....	....	....	....	....	.34	T.	.41	....	....	....	....	....	....	*.04*	*.12*	....	T.	.17	.03	.07	.22	....	....	....	§2.06
Owensville[2]	Gasconade	....	....	....	.20	*T.*	.12	.11	....	....	....	....	....	.05	.30	....	....	....	....	....	....	*.15*	.10	....	....	.11	*T.*	*	.17	....	....	....	§1.31
Pacific[2]	Meramec	....	....	T.	T.	T.	.51	....	....	....	....	....	*.10*	T.	.47	....	....	....	....	....	....	*.06*	T.	....	....	T.	.05	....	.43	....	....	....	§1.62
Parma[2]	St. Francis	T.	....	....	.36	....	.60	T.	T.	....	....	....	.69	.30	.48	....	....	....	....	....	....	....	.10	....	....	.24	.52	.09	.35	....	....	....	3.73
Perryville	Mississippi	....	....	.01	.51	.44	.02	....	....	....	....	.20	.23	.51	*.12*	....	....	....	....	....	....	.10	....	....	.02	.24	....	.27	....	....	....	....	§2.67
Poplar Bluff[2]	Black	.01	....	....	.47	T.	.64	....	T.	....	....	....	.43	.29	.42	....	....	....	....	....	....	*.04*	*.20*	T.	.02	.38	.41	.03	.21	....	....	....	§3.55
Puxico[2]	St. Francis	.01	....	T.	.53	....	.57	....	....	....	....	....	.50	.37	.38	....	....	....	....	....	....	T.	.15	....	T.	.22	.15	.03	.21	....	....	....	3.12
Qulin[2]	....do	.02	....	T.	.37	T.	.58	T.	T.	....	....	....	.64	.22	.39	....	....	....	....	....	T.	.01	.09	....	T.	.38	.32	.20	.55	....	....	....	3.77
Reynolds[2]	Black	....	....	T.	.46	....	.38	....	....	....	....	....	.35	.28	.12	....	....	....	....	....	....	*.15*	.05	....	....	.23	.24	....	.18	....	....	....	§2.44
Richwoods[2]	Meramec	.08	....	....	.23	....	.28	....	....	....	....	....	.35	.20	.31	....	....	....	....	....	....	....	.24	....	....	.08	....	....	.38	....	....	....	2.15
Roby	Gasconade	....	....	.07	.24	.32	....	....	....	....	....	.33	.17	.30	....	....	....	....	....	....	....	.12	....	....	.36	T.	.04	.46	T.	....	....	....	2.41
Rolla[2]	Meramec	....	....	....	.30	....	.25	....	....	....	....	....	.25	.15	.25	....	....	....	....	....	....	*.20*	*T.*	....	T.	.15	....	.05	.22	....	....	....	§1.82
Round Spring[2]	Black	....	....	....	.35	....	....	.41	....	....	....	....	....	.70	....	....	....	....	....	....	....	....	.15	....	....	.20	....	.15	.15	....	....	....	2.11
St. Louis:																																	
City Office[1,5]	Mississippi	....	....	.21	01	.05	T.	T.	....	....	....	.19	.03	.36	T.	....	....	....	....	....	....	.13	....	....	.02	T.	T.	.54	....	....	....	....	1.54
Airport[3,5]	Missouri	T.	....	.20	T.	.22	T.	T.	....	....	....	.04	.07	.40	T.	....	....	....	....	....	....	.11	....	....	T.	.01	T.	.68	....	....	....	....	1.73
St. Louis Univ.[1,5]	Mississippi	....	T.	.20	.13	.08	....	T.	....	....	....	.15	.02	.18	....	....	....	....	....	....	....	.11	....	....	.01	.01	....	.62	....	....	....	....	1.51
Washington Univ.[2]	....do	.01	....	....	.22	....	.07	....	....	....	....	....	.11	.04	.54	....	....	....	....	....	....	.04	.01	....	....	.01	....	.16	.47	....	....	....	1.68

Continued on next page

Daily Precipitation for February 1948—Continued from preceding page

Stations	Drainage-basins	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	..	..	Total
Southeastern Division —	*Concluded*																																
Salem	Meramec	....	....	.03	.31	.30	....	.03	....	....	....	.42	.15	.35	....	....	....	....	....	....	....	.12	....	....	.11	.06	....	.39	....	....	....	....	2.27
Sikeston²	Mississippi	.04	....	T.	.68	T.	.46	....	T.	....	....	....	.74	.27	.59	....	....	....	....	....	....	....	.07	....	....	.08	.32	.03	.37	....	....	....	3.65
Siloam Sprgs Lookout².	White	....	....	....	.28	....	.66	....	....	....	....	....	.23	.20	....	....	....	....	....	....	....	*	.12	....	....	1.00	....	....	.13	....	....	....	2.62
Steelville² ...2½ mi. NE	Meramec	T.	....	....	.26	.14	.19	....	....	....	....	....	.36	.20	.20	....	....	....	....	....	....	.10	....	....	....	.11	.03	....	.18	....	....	....	1.77
Sullivan²	....do	.02	....	.01	.23	.02	.24	....	T.	....	....	....	.09	.10	.36	....	....	....	....	....	....	.09	.03	....	....	.06	T.	.02	.14	....	....	....	1.41
Summersville²	Black	*T.*	....	.05	.18	*T.*	.53	....	....	....	....	T.	.35	....	.44	....	....	....	....	....	....	*.20*	*.10*	....	.02	.30	.08	.05	.16	....	....	....	§2.46
Union² ....1½ mi. SE	Meramec	T	....	T.	.22	....	.14	....	....	....	....	....	.02	.07	.35	....	....	....	....	....	....	*.10*	T.	....	....	.06	....	.02	.16	....	....	....	§1.14
Valley Park²	....do	T.	....	T.	T.	T.	.30	....	....	....	....	....	.20	T.	.60	....	....	....	....	....	....	.06	.05	....	....	.15	T.	.18	.48	....	....	....	2.02
Van Buren²	Black	....	....	....	.41	....	.51	....	....	....	....	....	.41	.31	.34	....	....	....	....	....	....	.11	....	.29	....	....	.07	.40	....	....	....	....	2.85
Vichy³ .....2 miles NW	Meramec	....	....	.17	.06	.27	....	T.	....	....	....	.20	1.41	.27	T.	....	....	....	....	....	....	.06	....	....	.07	.02	.05	.24	....	....	....	....	2.82
Wappapello Dam²	St. Francis	T.	....	T.	.46	T.	.56	....	....	....	....	.45	.45	.46	.34	....	....	....	....	....	....	.10	.04	....	.02	.22	.17	.02	.23	....	....	....	3.52
Webster Groves	Mississippi	....	....	.03	.20	.10	T.	....	....	....	....	.15	T.	.45	.12	....	....	....	....	....	....	.10	....	....	T.	T.	....	.54	T.	....	....	....	1.69
Weingarten	....do	....	....	*T.*	.46	.30	....	....	....	....	....	.33	.10	*	.20	....	....	....	....	....	....	.20	....	....	.40	....	....	.47	....	....	....	....	2.46
West Plains³	Black	....	....	.13	.10	.70	T.	T.	....	....	....	.35	.35	.23	T.	....	....	....	....	....	....	.12	....	T.	.58	.18	.08	.19	....	....	....	....	3.01
Williamsville²	....do	....	....	T.	.44	....	.63	....	....	....	....	....	.66	.45	.29	....	....	....	....	....	....	.17	.03	T.	.29	*T.*	.19	.05	.15	....	....	....	3.35
Willow Springs² 500 ft E	White	....	....	.06	.22	....	.66	....	....	....	....	*	.46	.21	.18	....	....	....	....	....	....	*.20*	.05	....	.05	.55	.14	.16	.28	....	....	....	§3.22
Zalma²	Mississippi	T.	....	T.	.40	....	.40	....	....	....	....	....	.54	.11	.11	....	....	....	....	....	....	.06	T.	....	.03	.22	.01	....	.18	....	....	....	2.06
Cairo, Ill.¹, ⁵	....do	....	....	.32	.30	.39	....	.01	....	....	....	.70	.20	.55	....	....	....	....	....	....	....	.13	....	....	.01	.14	.04	.46	....	....	....	....	3.25
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....

Except as otherwise indicated, amounts are for 24 hours ending late in afternoon. ¹ Midnight to midnight. ² Measured in the morning; for the preceding 24 hours. ³ Data for 24 hours ending 12:30 A. M. (C. S. T.) of following day. ⁵ Recording gage. T. Trace or 0.005 inch or less. * Included in next measurement. // Windshield on gage. Italics data interpolated. § Partly interpolated. (A) Record from cooperative station gage. (B) Record from river station gage. (C) Airport. ‡ Received too late to be included in means and extremes.

Daily Evaporation (inches), Mean Temperature (F°), and Wind Movement (miles) for February 1948

(See precipitation data in daily precipitation table)

Station	Data	Day of month																															Monthly
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	..	..	
Columbia (Univ. of Mo. Hort. Exp. Sta. 9 mi. WNW.)	Evaporation	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.....
	Mean temperature	21	26	30	26	21	19	32	16	14	20	28	20	20	22	33	44	46	53	49	24	22	26	38	42	43	48	56	44	36	..	..	31.6
	Wind movement	24	1	45	49	14	9	94	131	18	60	42	82	45	74	61	123	55	53	178	127	86	40	140	126	3	25	130	266	56	..	..	2,157
Lakeside (Osage Dam)	Evaporation	....	....	....	....	....	....	....	*	*	*	*	*	*	*	*	.084	*	.016	.109	*	*	*	*	.340	††††	.022	.036	.160	.140	....	....	1.176
	Mean temperature	24	28	26	30	24	26	24	16	20	23	25	22	22	30	34	42	48	50	45	26	24	25	33	40	47	52	54	48	37	..	..	32.6
	Wind movement	20	10	11	14	11	5	27	74	49	49	61	58	39	144	22	71	57	39	71	128	84	47	81	134	26	18	62	238	97	..	..	1,747
St. Louis (Washington University)	Evaporation	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	****	.039	.064	*	....	....	.....
	Mean temperature	26	27	29	30	24	24	23	12	16	20	26	26	24	30	36	45	50	52	50	24	21	25	30	38	46	52	54	50	36	..	..	32.7
	Wind movement	49	18	37	27	14	0	24	89	82	74	41	71	65	34	23	66	34	20	50	136	107	80	30	19	85	15	29	99	66	..	..	1,484

Observations taken at 8:00 a. m. except at 5:00 p. m. at Columbia. For Lakeside and St. Louis (Washington University) descriptions see April 1932 and August 1938 reports, respectively. * Included in next measurement. †††† —.015. **** —.004.

Missouri Storms, February 1948

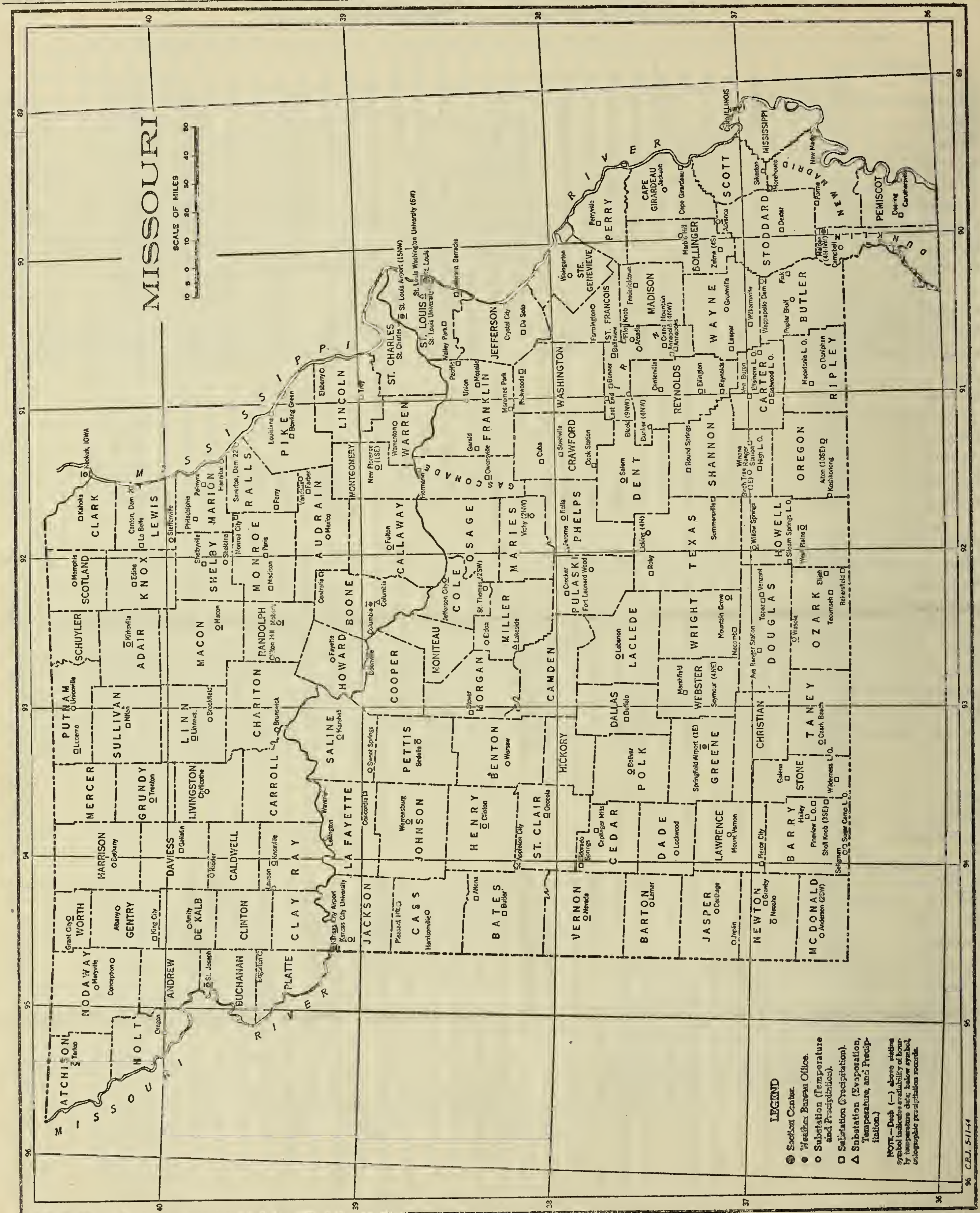
County	Date	Time	Nature of storm	Storm moved from	Width of path (miles)	Length of path (miles)	Loss of life	Property damage (estimated)	Remarks
Pike	27	12:30 p.m. to 1:30 p.m.	High wind	SW	100 yards	Approximately 1	0	$1,000	Damage confined to southern portion of Bowling Green. No damage to crops; all to buildings.
City of St. Louis and St. Louis County	27	1:40 p.m.	High wind	SW	....	....	0	....	Damage mostly confined to destruction of a number of plate glass windows, damage or destruction of a number of chimneys, more than 300 street lights in St. Louis proper (value estimated at $1,500—those broken). Six trolley poles snapped off in St. Louis County, and street car service tied up for a time in parts of the county.
Cape Girardeau, St. Francis, and Shelby	27	Day and night	High wind	SW	....	....	0	Minor	Minor damage to plate glass windows and the fire wall of one building at Jackson. Slight damage at Farmington by wind. A few outbuildings, one barn, and several window panes and porch of one house damaged in vicinity of Shelbina.

Time used on this tabulation is Central Standard Time, unless otherwise indicated.

Daily Temperatures for February 1948

Stations		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	..	..	Mean
Northern Division																																	
Brunswick /	Maximum..	36	38	27	25	25	33	35	20	29	32	32	21	24	35	46	55	66	68	51	26	28	37	48	47	42	61	59	52	41	..	..	39.3
	Minimum ..	10	15	15	20	11	10	10	-1	-1	4	8	8	8	11	15	21	30	31	36	16	17	18	18	28	36	33	32	36	26	..	..	18.0
Chillicothe 2 mi ESE(C)	Maximum..	32	30	23	22	24	33	33	16	28	30	27	18	23	32	44	53	66	63	50	24	29	36	45	45	42	57	59	46	37	..	..	36.8
	Minimum ..	8	14	16	7	11	5	7	-5	-2	12	12	5	16	10	16	35	30	34	18	15	14	14	27	36	32	28	40	29	25	..	..	17.6
Columbia	Maximum..	36	42	35	28	26	32	35	19	29	32	34	26	24	34	53	59	67	70	57	29	28	37	50	49	50	63	62	53	43	..	..	41.4
	Minimum ..	11	18	25	21	20	13	17	3	5	13	26	14	19	14	24	36	29	46	22	17	21	20	28	40	42	40	45	34	26	..	..	23.8
Fayette	Maximum..	37	43	35	31	25	34	35	29	29	32	30	27	22	37	49	57	67	69	61	30	28	37	49	48	48	61	60	52	46	..	..	41.7
	Minimum ..	7	13	22	18	17	4	28	0	1	11	26	18	16	12	13	32	27	35	29	16	18	16	27	37	37	39	49	36	25	..	..	21.7
Grant City	Maximum..	37	32	24	22	24	25	30	20	23	25	24	19	25	32	45	55	62	58	52	23	30	34	43	41	42	54	57	51	38	..	..	36.1
	Minimum ..	14	14	10	11	8	8	18	-7	-2	12	14	-1	13	11	14	34	31	34	20	11	17	17	27	36	30	30	46	32	20	..	..	18.0
Hannibal	Maximum..	35	41	25	22	25	31	35	18	28	30	32	22	23	35	50	54	65	67	55	25	28	35	43	47	45	60	59	50	37	..	..	38.7
	Minimum ..	10	21	18	15	14	6	10	-2	0	9	20	7	7	15	12	37	31	42	18	12	17	15	27	37	35	31	44	29	23	..	..	19.3
Kansas City Airport..	Maximum..	32	35	25	26	24	33	35	18	33	32	30	18	25	37	50	61	70	70	55	25	25	39	45	47	44	58	63	52	38	..	..	39.5
	Minimum ..	15	16	20	16	16	19	12	0	6	17	13	8	17	13	29	37	34	48	20	17	19	21	31	36	33	36	41	32	27	..	..	22.4
Kirksville	Maximum..	33	32	25	21	25	32	32	22	26	28	27	26	22	32	46	52	63	61	55	24	30	35	46	45	45	58	57	50	37	..	..	37.5
	Minimum ..	9	19	12	13	13	7	22	-5	-2	10	24	4	14	12	12	35	31	38	24	12	17	15	25	36	31	33	45	33	22	..	..	19.3
Lathrop	Maximum..	38	31	27	26	..	..	..	12	28	28	28	16	25	35	44	57	68	67	53	26	28	32	44	44	43	57	60	52	37	..	..	^{c}38.5
	Minimum ..	14	12	16	15	..	..	..	-6	-1	14	13	4	14	9	21	35	31	41	25	14	15	17	27	37	31	30	50	30	24	..	..	^{c}20.7
Louisiana	Maximum..	37	40	34	26	27	34	37	32	28	33	37	29	24	36	49	55	64	69	66	32	29	36	42	49	47	61	62	60	50	..	..	42.2
	Minimum ..	-3	10	21	19	19	-6	23	0	-7	8	27	12	20	18	3	32	26	32	31	15	19	9	28	36	39	35	50	38	26	..	..	20.0
Macon /	Maximum..	37	40	26	24	25	34	34	17	28	31	28	19	23	37	50	55	66	67	51	24	29	35	47	46	43	60	58	49	39	..	..	38.7
	Minimum ..	9	15	15	14	13	6	8	-4	-4	5	10	4	6	10	13	32	36	35	37	12	13	12	18	27	33	30	31	32	21	..	..	16.9
Maryville	Maximum..	36	27	22	24	23	26	30	19	22	24	22	18	25	32	48	54	63	57	52	22	26	33	40	41	43	54	59	50	35	..	..	35.4
	Minimum ..	12	12	10	9	5	9	16	-9	-1	11	12	-5	12	7	16	31	21	35	20	10	13	11	25	33	28	27	45	29	20	..	..	16.0
Mexico /	Maximum..	36	41	29	22	25	36	35	18	26	30	32	20	24	37	50	56	67	69	53	28	27	35	48	51	49	66	61	53	41	..	..	40.2
	Minimum ..	7	11	22	19	17	3	3	-1	-1	0	9	10	10	14	17	28	30	37	42	15	15	12	22	27	40	36	39	37	25	..	..	18.8
Moberly /.... 3½ mi. NE	Maximum..	34	38	28	25	27	32	34	18	28	30	28	21	22	34	50	57	65	65	51	25	27	36	48	51	44	64	64	48	..	..	..	^{a}39.1
	Minimum ..	9	18	19	*17*	15	3	12	-2	-1	7	16	7	11	12	15	33	31	39	45	*16*	17	12	*21*	*31*	35	32	40	34	24	..	..	§19.6
Oregon	Maximum..	35	26	24	26	23	28	32	12	22	26	26	17	31	36	47	57	70	61	52	22	30	38	41	42	44	57	62	47	36	..	..	36.9
	Minimum ..	17	15	10	10	9	12	11	-7	0	12	11	0	11	12	22	35	37	42	16	13	15	20	29	31	30	33	29	31	22	..	..	18.2
St. Charles	Maximum..	38	40	34	35	27	34	38	34	28	31	39	33	29	37	50	64	70	70	63	35	29	35	40	52	53	62	63	58	50	..	..	43.8
	Minimum ..	11	17	26	24	21	7	24	4	3	11	28	21	23	20	20	36	31	40	34	17	20	12	28	36	44	42	52	41	28	..	..	24.9
St. Joseph Airport	Maximum..	33	28	23	26	24	31	33	17	31	29	28	17	28	38	49	56	67	64	49	23	28	40	44	44	43	57	62	47	35	..	..	37.7
	Minimum ..	12	12	16	10	9	9	8	-3	-1	15	8	4	15	7	23	31	30	37	18	16	15	22	30	33	32	29	38	30	26	..	..	18.3
Trenton	Maximum..	32	31	25	22	25	32	32	18	27	29	29	20	26	33	48	56	65	61	54	30	31	35	45	44	45	56	58	48	40	..	..	37.8
	Minimum ..	10	18	14	14	12	5	18	-5	-1	14	20	5	15	14	18	35	30	35	30	14	16	17	27	37	33	39	37	33	23	..	..	19.9
Unionville /	Maximum..	32	31	16	22	26	..	..	..	..	..	..	..	..	..	..	..	..	..	45	22	33	36	47	47	42	59	57	42	35	..	..	^{m}37.0
	Minimum ..	8	9	10	9	9	6	13	-9	-7	0	11	1	2	9	10	21	28	32	37	10	10	12	13	25	30	31	30	32	19	..	..	14.2
Warrenton	Maximum..	38	43	35	34	26	34	36	33	27	32	37	31	32	33	51	61	68	72	68	36	30	37	44	51	52	63	62	54	49	..	..	43.9
	Minimum ..	6	12	22	22	20	4	24	2	0	11	26	17	20	17	14	36	27	38	36	16	18	6	25	36	43	41	47	38	26	..	..	22.4
Keokuk, Iowa	Maximum..	87	34	20	20	25	30	33	14	24	31	29	20	25	31	51	54	64	64	55	24	28	35	44	47	43	58	56	44	34	..	..	37.0
	Minimum ..	14	18	15	15	15	10	5	-3	2	11	18	7	18	15	17	40	35	45	17	13	18	18	28	40	35	34	43	30	27	..	..	20.7
Southwestern Division																																	
Clinton	Maximum..	34	44	37	30	24	33	35	21	32	35	33	22	24	38	51	60	70	74	55	30	26	40	48	51	47	62	60	55	46	..	..	42.0
	Minimum ..	11	15	29	23	21	18	18	4	6	16	22	13	17	10	20	37	31	40	25	19	15	14	30	42	33	42	45	35	27	..	..	23.6
Eldon	Maximum..	38	41	37	37	25	37	36	32	31	34	34	30	25	35	52	62	71	72	69	35	31	33	42	50	53	59	61	55	51	..	..	43.7
	Minimum ..	12	16	27	23	21	12	31	5	5	13	29	10	20	14	19	38	33	41	33	18	19	12	27	37	44	43	52	38	25	..	..	24.7
Harrisonville /	Maximum..	35	43	35	30	24	35	35	21	31	32	31	20	26	40	50	59	70	72	51	28	22	38	45	48	46	60	60	54	44	..	..	41.1
	Minimum ..	18	14	17	19	15	16	17	1	1	4	14	9	10	12	16	26	34	33	43	16	17	18	18	29	33	32	40	36	24	..	..	19.9
Jefferson City	Maximum..	37	41	34	34	25	34	36	32	30	32	36	29	24	36	52	61	70	72	66	32	28	37	47	49	49	60	62	54	48	..	..	43.0
	Minimum ..	6	9	27	22	21	7	30	3	5	14	28	15	20	14	13	39	27	40	32	18	19	10	27	37	43	42	49	39	26	..	..	23.5
Joplin Airport	Maximum..	39	45	40	40	27	38	38	25	36	37	35	25	24	42	50	58	70	74	59	32	30	44	51	58	56	66	62	56	53	..	..	45.2
	Minimum ..	13	22	32	26	22	20	25	12	12	21	25	15	18	12	26	40	35	48	26	21	20	18	29	41	42	46	43	38	31	..	..	27.0
Lamar /	Maximum..	42	46	40	30	28	37	37	26	38	40	36	21	27	43	50	62	71	76	57	34	30	43	47	55	55	68	61	59	53	..	..	45.2
	Minimum ..	13	12	17	27	22	19	20	6	7	10	19	15	13	6	6	29	31	34	43	18	18	12	14	27	39	39	43	33	28	..	..	21.4
Lebanon	Maximum..	38	49	45	37	27	37	36	34	34	36	35	32	25	42	49	57	69	72	69	43	33	42	43	49	57	60	61	57	54	..	..	45.6
	Minimum ..	15	18	32	26	22	18	30	6	6	12	29	20	20	13	23	37	36	43	42	17	18	10	25	35	44	46	48	37	26	..	..	26.0
Lexington /	Maximum..	33	38	27	27	24	34	34	19	35	31	28	18	24	37	49	58	67	71	49	26	28	38	47	47	44	60	60	51	42	..	..	39.5
	Minimum ..	16	15	15	17	13	15	16	-1	0	3	15	8	9	13	14	31	37	41	42	16	16	18	21	29	33	34	37	36	25	..	..	20.1
Marshall	Maximum..	35	40	36	30	26	36	35	28	31	32	24	27	23	34	50	57	66	69	67	33	29	46	49	49	49	61	60	54	50	..	..	42.3
	Minimum ..	11	14	22	18	16	14	28	0	4	13	17	9	18	13	18	37	34	40	30	16	18	18	22	38	35	32	52	30	26	..	..	22.2
Mountain Grove	Maximum..	39	46	44	42	32	38	38	35	35	34	35	34	31	40	45	62	71	72	70	52	34	39	36	46	51	56	61	59	53	..	..	45.9
	Minimum ..	11	18	31	30	25	20	27	8	3	13	28	25	21	15	26	34	39	41	47	19	20	15	23	34	43	48	50	39	28	..	..	26.9
Neosho	Maximum..	42	45	43	40	30	39	38	36	37	38	37	32	25	45	51	62	74	76	70	46	34	55	54	58	56	68	63	62	58	..	..	48.8
	Minimum ..	15	11	32	29	26	24	34	13	10	18	32	22	20	10	22	40	30	36	46	23	23	16	29	41	49	48	58	36	31	..	..	28.4
Nevada	Maximum..	39	45	41	38	27	35	36	32	38	37	35	28	27	44	49	61	71	73	60	39	31	43	46	52	51	65	63	53	57	..	..	45.6
	Minimum ..	11	17	31	24	22	20	31	6	8	19	27	13	17	8	24	34	30	41	39	19	21	16	28	40	37	42	50	35	28	..	..	25.4
Sedalia	Maximum..	34	41	39	35	24	36	35	30	30	33	33	27	23	34	50	57	66	71	69	34	28	38	50	51	50	61	61	53	50	..	..	42.9
	Miuimum ..	12	15	26	21	19	15	30	3	6	15	27	11	18	9	18	38	34	44	34	17	19	17	28	38	38	41	51	37	25	..	..	24.3
Springfield....4 mi. NW	Maximum..	38	46	37	38	26	33	35	24	31	34	34	27	24	38	49	58	69	74	57	38	25	40	42	49	55	58	61	55	53	..	..	42.9
	Minimum ..	14	20	32	25	18	20	24	8	6	16	27	23	18	12	23	35	36	43	27	20	18	18	26	39	45	47	43	38	28	..	..	25.8
Warrensburg	Maximum..	33	41	39	35	26	33	35	28	31	38	35	28	25	36	46	57	69	71	67	33	27	37	47	50	50	59	62	54	52	..	..	42.9
	Minimum ..	17	20	25	20	18	18	28	3	5	15	26	11	17	10	23	36	37	44	32	17	19	17	28	39	35	41	51	36	26	..	..	24.6
Southeastern Division																																	
Arcadia /	Maximum..	42	46	38	45	27	42	43	28	35	36	37	33	32	45	52	65	73	72	72	38	28	38	40	50	52	58	63	68	52	..	..	46.6
	Minimum ..	14	12	12	30	24	8	5	11	9	7	7	27	26	18	18	20	28	30	36	19	19	10	19	21	37	45	49	43	29	..	..	21.8
Birch Tree.... ½ mile E	Maximum..	43	48	42	48	43	42	42	38	34	37	35	35	33	45	50	61	72	73	69	51	36	39	38	47	52	57	62	61	56	..	..	47.9
	Minimum ..	10	15	31	34	26	21	27	12	7	7	28	29	25	14	12	33	29	29	48	21	21	14	22	30	44	48	50	41	30	..	..	26.1
Caruthersville	Maximum..	36	43	42	44	43	38	40	39	32	42	43	43	39	46	55	64	69	73	70	63	40	37	48	54	53	58	69	66	65	..	..	50.1
	Minimum ..	15	14	29	36	30	24	32	22	21	19	33	35	34	27	28	38	35	42	54	29	26	24	28	41	46	49	53	49	40	..	..	32.9
Crystal City	Maximum..	40	41	36	37	31	37	39	37	37	31	40	35	32	39	51	64	73	74	70	47	30	37	70	50	55	71	67	60	58	..	..	47.9
	Minimum ..	14	10	23	28	22	0	23	7	8	11	26	24	24	19	18	37	27	30	46	18	20	5	21	35	43	48	58	42	30	..	..	24.7
Doniphan	Maximum..	43	48	44	49	40	34	39	37	37	39	39	38	36	51	54	62	75	75	77	59	35	43	43	60	53	60	64	68	58	..	..	50.3
	Minimum ..	21	14	28	36	30	24	28	19	15	12	29	32	31	20	19	28	27	30	52	25	25	15	21	33	47	49	52	43	31	..	..	28.8
Farmington	Maximum..	40	42	35	39	33	35	42	36	29	32	35	35	31	39	49	63	71	71	64	46	29	35	40	48	52	58	62	63	56	..	..	45.2
	Minimum ..	14	13	25	30	22	11	24	7	7	10	23	24	24	18	21	37	29	41	45	17	19	11	21	34	44	45	50	41	27	..	..	25.3
Jackson	Maximum..	39	41	37	42	39	37	43	39	32	38	39	37	34	44	50	61	67	69	70	52	33	38	48	51	51	59	64	66	62	..	..	47.7
	Minimum ..	8	14	24	34	26	9	25	14	12	11	30	30	32	22	23	36	30	32	50	22	23	12	23	36	46	48	53	45	32	..	..	27.7
Poplar Bluff	Maximum..	41	45	42	48	44	36	41	36	35	39	39	38	36	50	53	60	70	73	74	58	35	42	43	53	52	57	65	68	62	..	..	49.5
	Minimum ..	19	16	28	35	29	21	29	19	15	15	29	32	32	22	25	30	31	36	54	25	25	19	25	37	47	49	53	42	35	..	..	30.1
Rolla /	Maximum..	33	40	36	36	24	37	32	19	30	36	35	24	25	47	49	59	66	71	58	33	29	36	44	46	47	60	60	55	45	..	..	41.8
	Miuimum ..	12	16	23	32	21	13	14	4	7	11	19	21	22	14	20	38	37	41	51	16	19	10	24	31	43	44	45	39	27	..	..	24.6
St. Louis	Maximum..	36	39	36	36	27	35	37	20	27	31	40	32	32	35	50	63	69	68	61	31	26	35	40	51	53	61	63	57	44	..	..	42.7
	Minimum ..	18	24	28	23	20	16	20	6	7	14	30	22	23	22	25	39	40	49	26	17	20	18	27	37	46	44	52	38	29	..	..	26.9
Salem	Maximum..	40	44	39	40	30	38	39	35	31	37	35	35	30	40	50	60	70	72	64	45	30	39	37	49	53	58	62	58	53	..	..	45.3
	Minimum ..	11	13	32	29	22	10	28	8	7	8	29	24	23	15	20	36	29	36	45	18	22	14	24	35	44	47	54	40	28	..	..	25.9
Sikeston /	Maximum..	37	41	38	45	32	35	39	23	32	39	41	36	35	45	53	62	69	70	70	38	28	38	48	53	52	60	66	67	51	..	..	46.3
	Miuimum ..	10	16	16	32	29	13	13	19	16	14	15	32	32	24	25	33	34	34	43	25	25	20	21	29	40	48	50	47	33	..	..	27.2
Union ....1½ mi. SE	Maximum..	36	39	37	37	26	37	38	34	30	30	39	34	28	37	53	62	69	72	65	37	30	35	41	54	55	60	65	57	51	..	..	44.4
	Minimum ..	9	7	22	24	21	0	26	5	5	10	27	22	22	18	20	38	25	28	36	17	20	-4	25	37	45	45	52	41	27	..	..	23.1
West Plains	Maximum..	42	48	39	46	31	35	41	31	33	35	35	33	32	46	51	63	72	73	69	38	30	39	38	46	53	58	62	60	55	..	..	46.0
	Minimum ..	10	16	33	31	23	23	29	14	12	14	30	30	24	17	20	29	30	30	33	23	12	13	25	38	44	50	52	36	31	..	..	26.6
Cairo, Ill.	Maximum..	32	39	39	41	33	37	39	34	31	40	42	39	38	43	51	60	66	70	68	37	32	36	48	54	52	58	65	65	50	..	..	46.2
	Minimum ..	12	16	29	33	26	17	32	19	16	15	36	34	29	26	31	42	36	42	34	25	24	22	29	41	48	51	53	49	37	..	..	31.2

/ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs. ^{a}, ^{b}, ^{c}, etc., number of days missing, for example, ^{b} indicates two days missing. Italics data interpolated. § Partly interpolated. (C) Airport.



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CLIMATOLOGICAL DATA

19

MISSOURI SECTION

H. F. WAHLGREN
ST. LOUIS, MO.

Vol. LII March 1948 No. 3

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GENERAL SUMMARY

March was a rather cold, wet, windy month and unfavorable for seasonal plowing and planting operations. As a result this work was two to three weeks behind normal advancement for this time of year, at the close of the month.

This was the second consecutive month of its name with subnormal temperature average; however, the current month averaged more than 5° warmer than March a year ago, which was the 7th coldest March in the past 61 years. As a rule, the first 13 days of this month averaged colder than normal. This cold period was followed by a warm period of above-normal temperatures for the next 13 days. During the remainder of the month daily averages fluctuated sharply, first below then above normal. The 19th, 20th, 24th, and 25th were, generally, the warmest days during the month, with daytime readings in the 70's, or 80's; the 11th and 12th were the coldest days, with minimum temperatures registering zero, or below, except in most of the Southeastern Division. Over much of the State, the latter two-day period was one of the coldest, for so late in the month, ever experienced in March. The sub-normal temperature averages were general over the entire State, each of the three divisions having averages and deficiencies from normal as follows:—Northern, 38.6°, −2.9°; Southwestern, 42.8°, −2.7°; Southeastern, 46.0°, −0.8°; for the State, 42.5°, −1.5°. A few stations in the eastern portion had average temperatures for March in excess of normal. The average number of days with minimum temperatures 32°, or lower, and zero, or lower, were 15 and 2, respectively, for the State as a whole.

Precipitation occurred rather frequently, i. e., on an average of 12 days, during March, and the distribution was quite irregular, ranging from a total of 8.39 inches at New Madrid to 1.96 inches at Bethany. The Southeastern Division had the greatest average, 5.23 inches, or 1.20 inches more than normal. The averages and departures from normal for the Southwestern and Northern Divisions were 4.93 inches, +1.78 inches and 4.18 inches, +1.59 inches, respectively. The State average, 4.78 inches, was 1.52 inches more than normal, and the greatest March State average in the past 10 years, except for 1945, with an average of 7.44 inches. Both rain and snow combined to make up the bulk of the month's precipitation, the latter form occurring during the first half of the month; no measurable snowfall occurred during the latter half. Except at the more northern stations, the ground was not covered with snow for more than a few days during the entire month, principally on the 10th and a few days thereafter. Over most of the northern quarter of the State the ground was covered by variable snow depths until the 13th or 14th of the month. Heavy to excessive 24-hour amounts of precipitation, of between two and three inches, occurred in each of the three divisions of the State, the greatest amounts being 2.38 inches at Kahoka on the 18-19th, 2.75 inches at Chadwick on the 1st and 2.86 inches at Campbell on the 26th.

The month was quite windy, with damaging windstorms or tornadoes on the 19th, 25th, 26th and 30th. Hail occurred quite frequently during the month, but, as a rule, no material

(Continued on page 19)

PRESSURE, WIND, HUMIDITY, AND SUNSHINE

Stations	Sea-level pressure, extremes—inches				Wind				Relative humidity				Percentage of sunshine	Degree days
	Highest	Date	Lowest	Date	Average hourly velocity	Maximum velocity ¶	Direction of maximum	Date	12:30 a. m.	6:30 a. m.	12:30 p. m.	6:30 p. m.		
Columbia	30.65*	5	29.17*	31	9.3	29	sw.	19	81*	84*	67*	68*	58	724
K. C. Airport	30.64	5	29.17	30	13.2	39	sw.	14	75	80	59	59	53	788
St. Joseph Ap't	30.69	4	29.21	30	9.7	32	nw.	27	85	89	65	65	52	889
St. Louis	30.68*	5	29.21*	31	13.3	47	s.	19	77*	79	63	66*	55	645
Springfield	30.65	12	29.14	30	14.3	43	sw.	19	79	84	65	65	39	719
Cairo, Ill.	30.61	12	29.23	31	12.2	43	sw.	19	..	81	61	..	56	497
....	.....	..	.....	..	....	..	......	..	..	..	..	..	..	....

* Data for Airport station. ¶ For 5-minute period.

COMPARATIVE DATA FOR MARCH

Year	Temperature			Precipitation					Number of days			
	Average for State	Highest	Lowest	Average for State	Average, Northern Division	Average, Southwestern Division	Average, Southeastern Division	Snowfall, Average for State	Precip. .01 inch or more	Clear	Partly cloudy	Cloudy
1888	38.5	90	1	3.90	4.13	4.37	3.19	....	10	..	..	..
1889	44.3	84	13	2.22	1.26	3.37	2.02	....	5	..	..	..
1890	37.3	79	−11	3.51	2.00	2.40	6.12	5.7	8	..	..	..
1891	36.6	78	−11	2.66	3.03	2.26	2.68	7.1	10	..	..	..
1892	38.9	87	5	2.98	3.31	3.46	2.18	....	8	8	10	13
1893	40.5	86	0	2.92	2.49	2.71	3.57	3.2	7	11	10	10
1894	47.7	89	2	3.22	2.29	2.95	4.43	0.2	6	15	9	7
1895	42.4	98	0	2.36	1.49	2.39	3.21	4.4	9	14	7	10
1896	39.2	82	2	2.22	1.15	2.04	3.47	5.2	8	11	9	11
1897	44.2	82	− 5	6.73	4.38	5.62	10.18	1.0	12	9	9	13
1898	44.7	83	9	7.44	5.26	6.42	10.63	0.6	11	11	7	13
1899	37.4	78	− 8	2.92	3.19	2.34	3.23	8.9	10	9	11	11
1900	40.4	88	− 4	1.52	1.43	1.35	1.79	0.2	6	15	9	7
1901	42.7	85	− 1	3.77	3.33	4.21	3.77	1.8	8	11	8	12
1902	45.3	85	1	3.71	2.50	4.64	3.99	0.8	9	10	10	11
1903	46.8	81	9	3.62	2.34	4.17	4.84	1.1	8	13	7	11
1904	44.8	87	8	4.55	3.54	3.13	6.98	1.2	9	11	9	11
1905	50.3	88	10	3.15	2.27	3.36	3.83	T.	8	11	8	12
1906	34.6	75	− 5	3.98	2.63	3.12	6.18	8.6	11	6	7	18
1907	53.9	95	16	2.76	2.54	3.05	2.70	1.0	7	14	7	10
1908	50.1	89	14	2.98	1.38	3.33	4.22	1.0	7	14	7	10
1909	44.5	81	9	3.03	2.24	2.01	4.83	0.6	6	13	9	9
1910	55.8	96	15	0.77	0.26	1.00	1.05	0.1	2	20	7	4
1911	46.8	91	5	1.72	1.71	1.84	1.62	1.4	6	16	8	7
1912	35.2	89	− 4	4.69	3.69	5.25	5.12	16.5	11	12	6	13
1913	40.6	84	−12	4.64	3.44	4.52	5.95	5.0	9	12	8	11
1914	43.2	87	− 2	2.76	2.80	2.89	2.59	4.7	8	13	7	11
1915	36.4	70	6	1.45	1.20	2.01	1.15	7.9	6	7	8	16
1916	47.0	95	− 2	2.55	2.48	3.20	1.98	3.1	7	14	8	9
1917	45.2	86	− 7	2.69	2.70	2.80	2.57	1.5	7	15	7	9
1918	50.9	95	8	1.02	0.46	1.55	1.06	0.1	4	18	6	7
1919	46.3	90	− 2	2.40	2.27	1.44	3.49	0.7	6	15	8	8
1920	44.6	86	− 6	5.12	4.60	5.37	5.40	1.4	8	15	6	10
1921	51.9	90	11	5.06	3.52	5.32	6.34	0.5	10	13	9	9
1922	45.6	80	3	6.39	4.89	6.78	7.51	2.2	12	11	6	14
1923	40.4	83	−11	4.23	3.53	3.64	5.52	2.3	8	14	6	11
1924	38.4	80	8	2.54	2.52	2.40	2.71	9.4	8	8	8	15
1925	47.7	86	− 5	1.94	1.77	1.98	2.07	0.8	5	17	8	6
1926	39.6	83	8	2.87	2.15	2.82	3.63	7.0	8	13	6	12
1927	45.9	80	0	5.93	4.08	6.88	6.83	3.7	11	12	8	11
1928	46.3	89	10	1.61	1.00	1.58	2.24	2.4	5	15	9	7
1929	48.6	97	11	3.33	2.99	3.13	3.88	T.	8	12	8	11
1930	43.2	80	6	1.38	1.19	0.91	2.04	1.4	4	18	6	7
1931	39.5	70	10	3.18	2.57	3.05	3.91	8.8	8	11	7	13
1932	38.3	81	− 2	1.99	1.39	1.62	2.96	2.8	7	12	9	10
1933	44.1	87	5	3.61	3.05	2.79	4.99	2.0	10	11	8	12
1934	41.2	82	− 3	2.55	1.53	2.10	4.03	4.9	7	13	8	10
1935	50.4	87	8	5.76	2.46	5.10	9.73	0.7	9	10	10	11
1936	49.4	84	13	1.27	0.82	1.00	1.98	T.	5	16	9	6
1937	40.4	77	6	1.66	1.27	2.15	1.56	2.8	6	12	8	11
1938	53.6	90	14	4.98	3.73	4.42	6.79	T.	12	13	7	11
1939	47.1	89	− 4	3.08	3.33	2.20	3.70	0.2	8	15	7	9
1940	43.1	89	0	2.44	2.07	2.43	2.83	4.0	8	9	9	13
1941	40.5	78	7	0.78	0.86	0.76	0.72	3.4	5	13	9	9
1942	45.8	84	8	2.05	2.05	1.48	2.63	0.7	7	12	8	11
1943	39.7	87	−22	2.63	1.41	2.58	3.90	5.0	8	13	9	9
1944	41.4	83	6	3.78	4.10	3.85	3.39	2.7	12	10	8	13
1945	52.6	89	2	7.44	5.10	6.98	10.25	1.0	12	13	7	11
1946	55.3	92	12	2.82	3.52	1.93	3.00	0.2	9	10	10	11
1947	37.4	77	− 7	2.80	3.26	2.97	2.16	8.8	11	10	9	12
1948	42.5	87	−17	4.78	4.18	4.93	5.23	5.9	12	10	8	13
Period	**44.0**	**98**	**−22**	**3.26**	**2.59**	**3.15**	**4.03**	**3.1**	**8**	**12**	**8**	**11**

NAT. HIST.

Climatological Data for March 1948

Stations	Counties	Elevation, feet	Temperature, in degrees Fahr.							Precipitation, in inches						Number of days				Prevailing direction of wind	Observers
			Length of record, years	Mean	Departure from the normal	Highest	Date	Lowest	Date	Length of record, years	Total	Departure from the normal	Greatest in 24 hours [4]	Date	Total snowfall, unmelted	With precip., .01 inch or more	Clear	Partly cloudy	Cloudy		
Northern Division																					
Albany	Gentry	930	7	37.2	......	76	24†	−9	12	19	2.94	+1.25	0.85	18–19	9.0§	11	12	8	11	n.	William J. Butler
Amity	DeKalb	1,007	2	36.8	......	76	24	−10	11	13	2.89	+0.62	1.07	18–19	16.5	10	12	6	13	nw.	O. M. Colhour
Bethany	Harrison	916	53	36.1	−4.2	74	25	−12	12	55	1.96	−0.27	0.60	18–19	13.5§	7	15	4	12	se.	B. A. McGregor
Brookfield	Linn	767	7	39.4	......	78	25	−5	11†	7	6.11	......	2.20	18–19	7.7	11	15	2	14	s.	G. F. Breen
Brunswick	Chariton	652	67	38.8	−3.1	77	25	−5	12†	69	5.14	+2.44	1.73	18–19	5.0	14	14	3	14	ne.	O. K. Benecke
Canton, Lock & Dam 20	Lewis	488	10	39.4	−2.6	78	20	−6	12	18	5.00	+2.66	1.48	18–19	4.4	16	12	8	11	s.	Lockmaster
Carrollton	Carroll	754	2	40.4	......	78	20†	−7	12	2	5.63	......	1.86	18–19	6.0	12	13	5	13	w.	Harold E. Finley
Chillicothe 2 mi ESE (C)	Livingston	771	39	37.2	−4.5	76	25	−7	12	42	3.82	+1.34	1.34	18–19	8.9	15	8	10	13	n.	Civil Aeronautics Adm.
Columbia	Boone	740	58	41.8	−1.1	82	20	−4	12	58	3.72	+0.78	1.00	21	3.0	16	9	10	12	s.	U. S. Weather Bureau
Conception	Nodaway	1,108	59	35.8	−4.0	76	24	−13	11	64	2.79	+1.14	0.67	5–6	11.5§	8	11	8	12	uw.	Fr. Adelhelm Hess
Edgerton	Platte	856	28	36.0	−7.2	77	24†	−11	12	45	2.96	+0.70	1.17	18–19	11.0§	11	9	9	13	ne.	Leroy H. Mindrup
Elsberry	Lincoln	449	17	41.6	−1.9	84	20	−14	12	17	5.57	+2.31	1.10	30–31	6.0	15	13	5	13	n.	Soil Conservation Service
Fayette	Howard	760	68	41.0	−0.9	80	20	−10	12	65	3.24§	+0.42	0.61	1	4.0	14	13	5	13	sw.	Irvin E. Schnell
Fulton	Callaway	818	60	40.8	−8.3	81	20	−12	12	56	4.51	+1.55	1.18	21	3.5	13	18	6	7	sw.	Frank E. Hillgartner
Grant City	Worth	1,134	44	35.2§	−6.1	74	24†	−11	11	56	2.30	+0.29	0.61	18–19	15.3	10	13	6	12	n.	J. Homer Korn
Hannibal	Marion	759	56	39.2	−1.8	81	20	−6	12	64	4.32	+1.72	0.79	5–6	3.3	16	10	9	12	n.	Hannibal Water Dept.
Kansas City Airport	Jackson	741	59	39.6	−3.1	77	25	−3	11	59	4.84	+2.53	1.50	18–19	7.4	15	8	7	16	sw.	U. S. Weather Bureau
Kidder	Caldwell	1,020	56	36.8	−4.0	75	20†	−8	11	60	3.15	+0.96	1.27	19	13.5	9	17	5	9	ne.	Mrs. Geraldine Terry
Kirksville	Adair	969	59	38.0	−1.7	74	20†	−6	11	66	4.28	+1.34	1.88	18–19	8.0	11	18	6	7	sw.	Dow Jones
Kirksville Airport	Adair	970	9	36.4	......	74	20†	−7	11	9	4.30	......	1.92	18–19	5.5	14	5	13	13	n.	Civil Aeronautics Adm.
Lathrop	Clinton	1,071	1	37.8	......	75	20†	−7	11	1	3.92§	......	1.60	19	11.0§	11	18	2	11	w.	E. L. Fisher
Louisiana	Pike	469	54	42.0	−1.5	82	20	−17	12	67	4.61	+1.14	1.10	21	5.5	13	12	6	13	s.	Stark Bro's Nurseries
Macon	Macon	875	49	37.6	−4.6	78	20	−7	12	55	5.99	+3.15	1.20	13–19	4.0	16	10	6	15	sw.	John W. Atwell
Maryville	Nodaway	1,169	58	34.0	−3.9	75	24	−14	11	54	3.85	+1.48	0.91	18–19	19.0	12	10	7	14	nw.	R. B. Montomery
Memphis	Scotland	787	9	36.2	−2.1	77	20	−6	11†	18	3.31§	+0.95	1.80	18–19	6.6	11	9	13	9	sw.	John W. Alexander
Mexico	Audrain	800	59	39.8	−2.2	82	20	−6	12	70	3.95	+1.04	0.90	1	2.2	15	6	12	13	sw.	D. N. Woods
Moberly 3½ mi. NE	Randolph	860	11	39.8§	−3.8	72	20†	−7	12	11	5 84§	+3.16	1.45	21	2.0	13	10	7	14	sw.	Robert J. Platter
New Florence, 1 mi SE	Montgomery	835	5	40.3	......	80	20	−9	12	6	4.77	......	1.62	21	4.4	14	4	8	19	sw.	U. S. Weather Bureau
Oregon	Holt	1,093	92	36.2	−3.4	78	25	−11	11	92	2.77	+0.81	0.87	5–6	15.5	6	16	9	6	nw.	James M. Curry
Polo	Caldwell	1,000	2	36.4	......	76	20	−6	11	2	3.98	......	1.48	18–19	6.8	11	11	12	8	n.	F. B. Albright
St. Charles	St. Charles	520	60	44.8	+0.3	85	20	−1	12	70	6.45	+3.28	1.13	21	6.5§	14	8	12	11	n.	Mrs. Myrtle Bregel
St. Joseph Airport	Buchanan	957	38	36.4	−4.1	78	24†	−8	12	76	3.73	+1.25	1.22	19	15.6	10	11	5	15	n.	U. S. Weather Bureau
Salisbury	Chariton	723	2	41.4	......	79	20	−5	12	2	5.79	......	2.37	18–19	3.1	13	12	8	11	s	David H. Robertson
Saverton, Lock No. 22	Ralls	472	10	40.9	+1.4	81	20	−4	12	10	3.93	+0.77	0.88	1–2	2.8§	16	12	9	10	se.	Lockmaster
Shelbina	Shelby	779	7	40.0	......	80	20	−8	12	55	5.36	+2.57	1.68	18–19	2.7§	13	11	6	14	sw.	Guyman Hatcher
Steffenville	Lewis	650	50	39.3	−2.9	78	20	−8	12	55	5.06	+2.05	1.58	18–19	4.6	13	16	3	12	n.	Mrs. Fannie V. Gross
Tarkio	Atchison	916	45	32.6	−7.5	76	25	−17	11	54	3.84	+2.17	1.52	18–19	24.5	12	8	10	13	n.	Civil Aeronautics Adm.
Trenton	Grundy	822	52	38.8§	−2.3	76	25	−5	11	53	3.99	+1.54	1.76	18–19	12.5	10	9	16	6	n.	W. H. Estes
Unionville	Putnam	1,062	55	34.5	−4.4	74	21†	−11	11	55	3.89	+1.39	1.92	18–19	12.0	10	11	9	11	n.	George D. Choate
Vandalia	Audrain	766	4	41.8§	......	83	20	−13	12	9	4.54	......	0.95	1–2	6.0	10	12	10	9	n.	Mrs. Naomi K. Stoutz
Warrenton	Warren	880	66	43.0	+0.5	82	20	−11	12	58	5 70	+2.52	1.67	21	6.0§	12	11	10	10	sw.	W. T. Zimmerman
Keokuk, Iowa	Lee, Ia.	574	76	39.2	+0.3	76	20†	0	11	76	5.22	+2.84	2.32	18–19	3.7	15	12	9	10	se.	U. S. Weather Bureau
Division means	**and extremes**	.....	..	38.6	−2.9	85	20	−17	11†	..	4.18	+1.59	2.38	18–19	8.1	12	11	8	12	n.	
Southwestern Division																					
Anderson 1½ mi SW	McDonald	1,000	44	41.1	−7.7	83	20	−15	12	49	5.28	+1.58	1.34	1	8.0	8	12	6	13	ne.	Samuel G. Chamberlain
Appleton City	St. Clair	800	53	42.6	−2.5	80	20	−7	12	56	3.57	+0.42	0.85	1	8.0	12	7	10	14	sw.	F. Paul Eye
Bolivar	Polk	1,071	45	44.2	−2.1	79	20	−6	12	53	4.58	+1.15	1.74	1	5.3	12	8	3	15	sw.	Southwest Baptist College
Boonville	Cooper	650	10	39.2	−4.1	82	20	−5	12	71	2.94	−0.10	0.55	1–2	2.7§	15	9	6	16	nw.	Boonville Water Dept.
Butler	Bates	865	2	42.4	......	79	20†	−5	12	7	4.50	......	1.21	30	9.5	13	8	7	16	se.	Harley W. Johnson
Camdenton	Pulaski	940	2	46.3	......	82	20†	−1	11	2	4.38	......	1.20	1	4.0	9	9	9	13	sw.	Mo. Conservation Com.
Carthage	Jasper	962	14	45.2	......	80	20†	−12	12	24	6.07	......	2.15	1	7.0	11	4	20	7	s.	Carthage W. and E. Plant
Clinton	Henry	786	55	41.2	−3.8	82	20	−5	12	61	3 53	+0.17	1.29	21	3.0	11	9	8	14	n.	U. S. Weather Bureau
Eldon	Miller	934	53	43.6	0.0	80	20	−3	11	49	4.39	+1.35	1.04	20–21	8.0	12	8	12	11	sw.	Arthur Rothwell
Harrisonville	Cass	904	70	39.8	−1.5	79	19†	−5	11	73	4.75	+1.95	1.01	13–19	8.5	11	12	4	15	se.	Jeffrey B. Patterson
Jefferson City	Cole	557	58	43.0	−0.6	81	20	−11	12	65	4.16	+1.10	1.16	21	5.2	14	9	8	14	sw.	K. W. O. S. Radio Farm
Joplin Airport	Jasper	988	26	42.9	−5.7	79	20	−5	11†	43	5.37	+2.17	1.83	1	7.0	11	6	6	19	sw.	Civil Aeronautics Adm.
Kansas City Univ.	Jackson	908	10	40.2	−5.8	77	20	−3	11†	10	5.07	+2.26	1.29	18–19	6.8	13	10	14	7	sw.	University of Kansas City
Lakeside	Miller	595	17	41.5	−3.1	80	20	−10	12	17	3.89	+1.14	1.04	21	5.5	12	..	..	..	sw.	W. S. Frame
Lamar	Barton	980	60	41.2	−4.8	81	20	−9	12	67	4.15	+0.96	1.45	21	6.5	10	12	6	13	sw.	Mrs. Marie Mann
Lebanon	Laclede	1,265	60	44.2	−0.8	80	20	−5	12	61	4.86	+1.38	1.40	1	*5.0*	14	5	10	16	sw.	Mrs. Rosa E. Montelius
Lexington	Lafayette	688	63	39.2	−4.2	80	20	−5	11	64	6.45	+3.67	2.17	18–19	6.5	12	10	10	11	nw	William H. Cullon
Lockwood	Dade	1,078	42	44.8	−2.5	79	20†	−4	11	52	4.27	+0.71	1.77	1	6.0	10	11	8	12	sw.	Hubert A. Nieman
Marshall	Saline	779	61	41.8	−1.2	79	20	−4	12	58	5.51	+2.59	1.11	25–26	3.0	10	7	12	12	sw.	Thomas A. Reid
Marshfield	Webster	1,484	3	44.0	......	81	20	−7	12	7	4.54	......	1.45	1	3.0	10	6	6	19	sw.	Sho-Me Power Co.
Monett	Barry	1,317	1	41.8	......	78	20	−3	11	1	4.68	......	1.34	1	4.2	11	10	8	13	s.	Mo. Univ. Fruit Exp. Sta.
Mountain Grove	Wright	1,463	47	44.6	−0.8	82	20	−3	12	51	4.34	+0.47	1.10	1	6.0	11	12	4	15	nw.	Mo. Fruit Exp. Station
Mount Vernon	Lawrence	1,174	36	....	......	..	..	..	..	48	....	......	....	..	....	..	..	..	..	......	John C. Heying
Neosho	Newton	1,011	61	46.2	−1.9	81	20	−11	12	65	4.55	+1.00	1.33	1	5.7§	12	12	6	13	se.	U. S. Fisheries Station
Nevada	Vernon	862	55	43.8	−1.1	80	20	−7	12	56	3.94	+1.07	1.01	1	8.0	13	10	7	14	sw.	Henry Kraft
Ozark Beach	Taney	700	8	44.6	......	85	20	−3	12	23	5.60	+2.51	1.87	1	6.5	9	8	10	13	w.	Empire District Elec. Co.
Sedalia	Pettis	910	35	42.7	−0.1	80	20	−7	12	37	3.36	+0.53	0.71	5–6	3.9	13	14	4	13	sw.	Dr. J. E. Cannaday
Seligman	Barry	1,542	47	43.8	−2.8	79	20†	−4	11	45	6.53	+2.93	1.83	1	8.0	11	9	9	13	e.	Floyd E. Fawver
Seymour 4 miles NE	Webster	1,642	42	40.8	−4.6	80	20	−7	12	42	5.52	+1.86	1.61	1–2	*2.0*	11	9	6	16	sw.	Ira H. Hailey
Springfield 4 mi. NW	Greene	1,265	60	41.9	−1.7	81	20	−3	11	60	4.03	+0.64	1.25	1	3.0	12	6	8	17	s.	U. S. Weather Bureau
Sweet Springs	Saline	700	7	41.4	......	80	20	−15	12	7	5.69	......	1.09	21	6 0	11	12	10	9	w.	H. F. Nelson
Warrensburg	Johnson	878	61	42.8	−1.2	79	20	−3	11	68	4.63	+1.54	1.20	30–31	*4.6*	13	6	13	12	nw.	Central Teachers College
Warsaw	Benton	687	47	44.2	−2.8	82	20	−12	12	53	3.53	−0 02	0.79	1	5.0§	9	9	7	15	sw.	Dora B. Johnson
Wasola	Ozark	1,294	7	45.9§	......	83	20	−1	12	8	5.47	......	1.70	1	*8.9*	11	9	8	14	e.	A. W. Pinckney
Waynesville 1¼ mi. E	Pulaski	805	2	....	......	..	..	..	..	2	....	......	....	..	....	..	..	..	..	......	Fred M. Sanderson
Division means	**and extremes**	.....	..	42.8	−2.7	85	2	−15	12	..	4 93	+1.78	2.75	1	5 8	11	9	8	14	sw.	
Southeastern Division																					
Advance ¼ mile W	Stoddard	354	11	46.8	−1.2	81	19†	10	12	11	5.32	+0.38	2.08	26	1.3	13	5	10	16	s.	U. S. Weather Bureau
Arcadia	Iron	926	67	42.6	−2.0	86	20	−1	13	70	6.66	+2.61	2.50	25–26	10.0	8	8	2	21	e.	Arcadia College
Birch Tree ½ mile E	Shannon	1,000	53	45.2	−2.1	81	20	−5	12	54	3.40	−0.58	0.68	26	7.0	10	9	10	12	se.	Mrs. Mildred E. Catlett
Black 9 miles NW	Iron	1,000	55	*43.7*	−1.3	*85*	20	−11	12	55	5.46§	+1.57	*1.07*	26	10.0§	14	..	..	..	......	J. Cornell Shy
Campbell	Dunklin	314	22	50.0	+2.0	82	20	14	12	22	7.90	+1.98	2.86	26	0.5	11	11	11	9	s.	Mrs. Ruth Christian
Cape Girardeau	Cape Girardeau	347	3	49.4	......	83	20	8	12	48	5.08	+1.24	1.32	26	*1.8*	14	8	8	15	w.	State Teachers College
Caruthersville	Pemiscot	265	52	52.1	+0.7	82	19	17	12	56	6.58	+2.12	1.72	1–2	0.2	12	13	9	9	s.	Victor T. Malloure
Clearwater Dam	Wayne	648	2	46.9	......	85	20	4	12	2	4.00	......	1.28	30–31	*3.0*	10	12	4	15	nw.	U. S. Engineer Office
Crystal City	Jefferson	420	14	46.8	+1.6	86	20	−2	12	14	4.43	+1.75	1.12	26	6.8	12	7	5	19	nw.	Richard K. Ragland
Doniphan	Ripley	344	44	48.5	−0.5	85	20	9	12	44	5.27	+0.88	1.28	25–26	*T.*	12	14	4	13	sw.	Boyce Lackey
Farmington	St. Francois	896	37	44.8	−1.7	84	20	0	12	51	5.95	+2.03	1.53	25–26	6.5	12	8	6	17	s.	F. M. Karsch
Greenville 1 mile SW	Wayne	415	39	48.0	+0.3	87	25	6	12	41	4.49	+0.23	1.12	25–26	2.5	11	6	13	12	sw.	Beuford Shoemake
Jackson	Cape Girardeau	428	57	48.3	+1.1	83	20	8	12	58	5.70	+1.53	1.60	30–31	1.8	12	6	9	16	sw.	Danny Siebert
Koshkonong	Oregon	958	47	47.7	−1.7	82	20	3	12	48	4.52	+0.42	1.14	25–26	3.5	11	9	6	16	w.	Mrs. Genevieve T. Smith

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Climatological Data for March 1948—Continued from preceding page

Stations	Counties	Elevation, feet	Temperature, in degrees, Fahr.							Precipitation, in inches						Number of days				Prevailing direction of wind	Observers
			Length of record, years	Mean	Departure from the normal	Highest	Date	Lowest	Date	Length of record, years	Total	Departure from the normal	Greatest in 24 hours [4]	Date	Total snowfall, unmelted	With precip., .01 inch or more	Clear	Partly cloudy	Cloudy		
Southeastern Division—	*Concluded*																				
Licking...... 4 miles N	Texas	1,170	11	44.2	− 2.9	82	20	− 9	12	11	4.88	+1.75	1.30	30–31	4.0	7	8^b	3^b	18^b	s.	Fern E. Austin
Marble Hill	Bollinger	532	53	45.3	− 2.3	81	20	4	12	55	4.65	+0.37	2.34	30	T.	8	12	9	10	s.	R. A. DeWitt
Poplar Bluff	Butler	339	48	49.6	+ 1.0	84	19†	11	12	44	5.05	+0.69	1.75	25–26	1.0	11	13	4	14	s.	Osmon M. Richardson
Rolla	Phelps	1,202	48	42.0	− 3.5	81	20	− 1	11†	64	4.71	+1.08	1.30	21	5.0	11	9	11	11	n.	Rolla School of Mines
St. Louis:																					
City Office		465	111	44.3	+ 0.2	82	20	7	12	111	5.31	+1.93	1.27	30–31	4.5	13	7	8	16	s.	**Section Center**
St. Louis Airport	St. Louis	556	11	43.2	+ 0.2	83	20	1	12	17	6.40	+3.52	1.77	21	4.8	14	6	8	17	nw.	U. S. Weather Bureau
St. Louis University	St. Louis City	578	36	44.2	0.0	83	20	6	12	36	5.97	+2.63	1.19	26	3.5	14	16	3	12	se.	St. Louis University
Salem	Dent	1,206	44	44.8	− 1.6	83	20	− 8	12	47	5.74	+1.87	1.23	25–26	6.8	12	8	9	14	w.	E. E. Martin
Sikeston	Scott	318	41	47.6	− 1.0	83	20	12	12	51	6.08	+1.62	1.46	21–22	0.3	13	11	10	10	s.	Mrs. Lucy W. Humphreys
Union........1½ mi. SE	Franklin	520	10	43.8	− 3.5	83	20	− 7	12	31	5.18	+1.88	1.56	21	*5.5*	13	10	7	14	nw.	Cornelius Sieges
Vichy ....2 mi. NW	Maries	1,125	12	41.8	......	80	20	− 5	12	13	6.09	......	1.38	21	4.3	14	4	8	19	nw.	Civil Aeronautics Adm.
Wappapello Dam	Butler	475	9	47.6	+ 0.1	84	19	10	12	9	5.77	+1.02	2.06	25–26	1.0	11	12	5	14	sw.	U. S. Engineer Office
Webster Groves	St. Louis	507	2	44.4	......	84	20	1	12	3	5.92	......	1.23	30–31	4.0	12	8	7	16	nw.	R. W. Lawrie
Weingarten	St. Genevieve	833	7	44.4	......	80	20†	− 1	12	8	6.26	......	1.80	25–26	*3.0*	11	5	14	12	n.	William J. Miller
West Plains	Howell	1,005	11	43.9	− 3.2	83	20	− 8	12	11	2.95	−0.96	0.66	10	7.7	8	7	5	19	s.	U. S. Weather Bureau
Willow Springs 500 ft E	Howell	1,238	7	45.0	......	84	20	− 7	12	41	4.04	−0.20	1.01	1	6.0	13	7	7	17	s.	Allen Frazee
Cairo, Ill.	Alexander, Ill.	314	76	49.6	+ 1.9	81	20	15	12	77	6.62	+2.87	2.17	26	0.5	13	4	11	16	sw.	U. S. Weather Bureau
Division means	**and extremes**	.....	..	46.0	− 0.8	87	25	−11	12	..	5.23	+1.20	2.86	26	3.8	12	9	7	15	s.	
State means	**and extremes**	.....	..	42.5	− 1.5	87	25	−17	11†	..	4.78	+1.52	2.86	26	5.9	12	10	8	13	sw.	

The departures from normal temperature are computed from the averages of the entire period for stations having 10 or more years of record. Departures of precipitation for stations with 15 years or more of record are computed from a normal or "standard mean", adjusted to a uniform 35-year period; for stations of 10 to 14 years the means for the period of record are used. The normal may be found by adding the departures when minus (−) or subtracting when plus (+). Figures and letters following stations indicate distance in miles and direction of station from the city Post Office, unless otherwise indicated. T. Trace or 0.005 inch or less. ^{a}, ^{b}, ^{c}, etc., number of days missing; for example, ^{b}, indicates two days missing. Italics data interpolated. § Partly interpolated. † And other dates. ‡ Received too late to be included in means and summaries. [4] Best available used for stations not equipped with recorders. Post office address of: Altona is Adrian; Clearwater Dam is Piedmont; Crane Mountain is Arcadia; East End is Goodland; Hailey is Cassville; High Lookout is Birch Tree; Macedonia Lookout is Doniphan; Oates Tower is Centerville; Perry is Center; Pineview Lookout is Cape Fair; Sugar Camp Lookout is Seligman; Topaz is Cabool; Wilderness Lookout is Lampe. (C) Airport. ¶ Indicates plus.

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damage resulted, except locally on the 19th and 26th. Thunderstorms were also rather numerous during March. For details of damaging storms see special storm table printed elsewhere in this issue.

Minor to moderate overflows occurred from one to three times in stretches of the Grand, Meramec, Missouri and Mississippi Rivers during March, and continued into April in portions of the latter stream.

The cold, wet weather during March seriously interfered with the preparation of ground for seeding of early spring crops and, as a consequence, very little field work had been accomplished by the close of the month. A very few oats were sown in the southwestern portion and a few early gardens were planted, locally, where the ground became dry enough. Wheat and grasses started growth after the severe cold spell on the 11th and 12th and by the close of the month were making good progress. Wheat apparently came through the winter in very good condition and prospects for a good crop were very favorable at the end of March. Fruit buds were beginning to swell the latter half of the month and blooms appeared near the close, in southern portions of the State. However, it was thought the extremely low temperatues on the 11th and 12th killed, or severely damaged fruits, especially peaches, in the northern half of the State, and locally elsewhere. Very little grazing was possible, due to wet and muddy fields, and dry feeding of livestock had to be continued throughout most of the month. Warmer and drier weather was urgently need as March closed, to permit preparation of the fields for seeding of spring crops. —M. R. W.

TEMPERATURE

The monthly mean for the State, 106 stations reporting, was 42.5°, or 1.5° colder than the 61-year March average. The highest monthly mean was 52.1° at Caruthersville, and the lowest was 32.6° at Tarkio. The highest reported was 87° at Greenville on the 25th, and the lowest was 17° below zero at Tarkio on the 11th and at Louisiana on the 12th.

PRECIPITATION

The average for the State, 214 stations reporting, was 4.78 inches, or 1.52 inches more than the 61-year March average. The greatest monthly amount was 8.39 inches at New Madrid, and the least was 1.96 inches at Bethany. The greatest amount reported in 24 hours was 2.86 inches at Campbell on the 26th. The average number of days with 0.01 inch, or more, was 12.

Snowfall averaged 5.9 inches, or 2.8 inches more than the 58-year March average. The greatest monthly snowfall reported was 24.5 inches at Tarkio.

MISCELLANEOUS PHENOMENA

Aurora.—14th.

Floods.—In Grand River, at Brunswick, 1st to 2d, 19th to 27th, and on 30th; at Chillicothe, 16th to 18th and 19th to 22d. In Meramec River, at Pacific, on 24th; at Valley Park, 28th to 29th. In Mississippi River, in the reach from Keokuk, Iowa to Dam No. 25, continued from February to March 14th; in the reach from Keokuk, Iowa to Grafton, Ill., March 11th and continued into April; in the reach at Cairo, Ill., and below, continued from February to March 13th; in the reach from Chester, Ill. to Caruthersville, Mo., 23d and continued into April. In Missouri River, at St. Joseph, 20th to 21st; at Waverly, and below, 20th to 29th.

Fogs.—Heavy, 1st, 2d, 6th, 13th, 15th, 19th, 22d, 23d, 24th, 31st.

Frosts.—Light, 7th, 16th, 17th, 31st; heavy, 17th, 28th; killing, 12th, 13th, 17th, 22d, 27th, 28th.

Glaze.—1st, 2d, 3d, 5th, 6th, 10th, 27th.

Hail.—Light, 15th at Brunswick, Canton, Carrollton, Hannibal, LaBelle, Macon, Steffenville; 18th at Boonville; 19th near Browning, Lexington, Vanzant, Defiance, Augusta, Irondale, Farmington; 21st at Butler; 25th at Maryville, Kansas City Airport, near Seymour; 26th at Conception, Louisiana, near Anderson, Campbell, Cape Girardeau, Cook Station, Fremont Tower, High Lookout, Koshkonong, Moselle, Parma,

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Daily Precipitation for March 1948

Stations	Drainage-basins	Day of month																															
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Total
Northern Division																																	
Albany	Grand	.58	.50	T.		.01	.55				.03	.03								.85							.30	.01			.04	.04	2.94
Amity	do	.42	.21	T.		.06	.46				.12	.08							T.	1.07	T.	T.					.29	.02			T.	.16	2.89
Auxvasse	Missouri	.86	.40	T.		T.	.66				.09	.19				.01			.01	.13		1.22	T.	.84			.16	.08			T.	.02	4.67
Bethany	Grand	.26	.31	T.		T.	.40					T.								.60							.30	.04			T.	.05	1.96
Bowling Green[2]	Mississippi	.14	.84				.60	.02			.02	.22								.05			.48	.55			.22	.07				.42	3.63
Brookfield[2]	Grand	T.	.48				.55				.08	.06					.10			2.20		.97		.40			.75	.07				.45	6.11
Browning 3 mi. NE	do	.28	.53	T.	T.	T.	.66				.05	.11				T.			T.	1.69		T.		.11			.41	.01			.02	.63	4.50
Brunswick[2]	do	.12	.50	.02	T.		.58				.10	.15					.23			1.73	.18	T.	.12	.30			.87	.02				.22	5.14
Canton, Lock No. 20[2]	Mississippi	.02	.67	.02	.01		.49	.14			.02	.18					.37			1.48		.41	.35	.24			.23	.02				.35	5.00
Carrollton	Missouri	.86	.20	T.		T.	.52				.15	.15				.10				1.86		.29		.35			.71	.02				.42	5.63
Centralia[2]	Mississippi	.11	.84	.08			.62				.06	.21					.03			.12		.18	.22	.27			.26	.06				.13	3.19
Chillicothe[2] (B)	Grand	.01	.63	T.			.40	.04			.05	.02								1.62	.10		T.	.18			.38	.02	T.			.30	§3.75
Chillicothe[3] 2 mi ESE (C)	do	.50	.09	T.		.03	.51				.33	.01							.08	1.26		T.	.05	.18		.10	.31	.04			.01	.82	3.82
Columbia[1, 5]	Missouri	.69	.12	T.		.11	.55	T.			.33	T.				.03			.09	.06		1.00	.19	.12		.09	.20	.02			.05	.07	3.72
Columbia[5] 9 mi. WNW	do	.87	.22	T.		T.	.53				.05	.11					.05		.02	.10		.98	T.	.26			.18	.10			.02	.07	3.06
Conception	do	.28	.44			.07	.67													.61		T.					.53	T.			.04	.15	2.79
Edgerton[2]	do	T.	.64		T.	.02	.54	.05			.06	.06								1.13	.04		T.	.02			.24	T.				.16	2.96
Edina[2]	Mississippi	T.	.68				.35	T.			T.	.23					.12			1.57	.25		.45	.14			.30					.36	4.45
Elsberry S. C. S.[2]	do	.12	.65	T.	T.	.64	.04				.02	.23					.22			.12		.11	.86	.87	.06		.34	.19	T.	T.		1.10	5.57
Fayette	Missouri	.61	.41	T.		.51					.15	.12				.02			.02	.32	T.	.33		.22			.33	.09			.03	.08	§3.24
Fulton[2]	do	.20	.80				.64	.05			.02	.20								.07	T.	.08	1.18	.84			.23	.10				.10	4.51
Gallatin[2]	Grand	.01	.57				.44	.14			.05	.05								1.43	.07			.02			.38	T.				.09	§3.25
Grant City	do	.26	.10	T.		.05	.48	T.			T.	T.								.61		.04					.56	.04			.11	.05	2.30
Hannibal[1] (A)	Mississippi	.65	.20	.08		.07	.72				.20	.10				.62			.15			.48	.04	.43			.30	.03			.24	.06	4.82
Hannibal[2] (B)	do	T.	.92	T.	T.		.86	T.			T.	.15					.65			.85	T.		.38	.43	T.		.20	.14	T.			.30	4.88
Kahoka[2]	do	T.	.42	.02			.40	.10				.02					.24			2.20	.18		.49	.05			.08					.37	4.57
Kansas City Airport[1, 5]	Missouri	.95	.04	T.	T.	.18	.31			.02	.18	.01			T.	T.			.04	1.46		.14	.46	T.		.08	.72	T.			.03	.22	4.84
Kidder[2]	Grand		.74				.51	.09			.02	.02								1.25	.02						.45	.05					3.15
King City	Missouri	.64	.19			.08	.68				.05									.73							.30	.01			.02	.10	§2.80
Kirksville	Mississippi	.18	.45				.62				.03	.05								1.88		.07		.43			.35	T.			.12	.10	4.28
Kirksville Airport[3, 5]	do	.07	.20	T.		T.	.51	T.		T.	.02	.02			T.	.02			.16	1.76		.50	T.	.23		.01	.53	T.			.10	.17	4.30
LaBelle[2]	do	*	.67	.01	T.		.35	T.			.21	.04					.45			1.80	.08		.40	.25			.20	T.				.47	4.93
Lathrop	Grand	.75	.10			.10	.80				*	.10								1.60				.14			.29	.02				.02	§3.92
Linneus	do	.25	.24				.57				.05	.03								1.96		.09		.26			.58	.06			T.	.42	4.51
Louisiana (A)	Mississippi	.23	.70	T.			.55				.16	.43							.02	.08		1.10		.55			.36	.05			.23	.15	4.61
Louisiana[2] (B)	do	.01	.63		T.		.44	.19			.01	.13					.06			.13		.01	1.29	.53	.03		.20	.13				.50	4.29
Lucerne[2]	Grand	.21	.65	T.			.52	.19			.07	.06								1.42	.12						.18	T.				.86	§4.28
Macon[2]	Chariton	.05	.60	T.			.45	.18			.03	.14					.23		1.05	1.20	.14	.07	.43	.61			.55	.08				.18	5.99
Madison[2]	Mississippi	T.	.95				.55	.15			T.	.12								.51			.40				.28					.40	3.36
Martinsburg[2]	Missouri	.13	.75		.02		.70	.12			.02	.15					T.			.26	T.	.12	.93	.89	.02		.17	.07	T.			.12	4.47
Maryville	do	.40	.30			.13	.63	T.			.04	.03								.91		.03				T.	.35	.16			.07	.30	3.35
Memphis[2]	Mississippi	T.	.45	.13			.08	.31	T.		T.	.01					T.			1.32	.48		.05	.10			.18					.20	§3.81
Mexico[2]	do	.12	.78				.62	.02			.03	.12					.04			.27		.08	.51	.76	.02		.34	.07				.17	3.95
Milan[2]	Grand	T.	.54				.31				.03	.03								2.03	.17			T.			.31	T.				.59	4.01
Moberly[2] 3½ mi. NE	Mississippi	*	.90				*	.67			.03	.10					*			1.35		1.45	.50				.45	.25				.14	§5.84
Monroe City	do	.09	.59				.76				.08	.10					.07			.49		.47		.42			.32	.08			.12	.44	4.03
New Florence[3, 5] 1 mi SE	Missouri	.87	.09	T.	T.	.03	.59	T.			.15	T.				.06			T.	.10		1.62	.14	.41		.03	.37	T.			.29	.02	4.77
Oregon[1]	do	.33	.52	T.		.35	.87				T.								T.							T.	.22	T.			.48		2.77
Palmyra[2]	Mississippi		.35		T.						.05	.12					T.			.31			.47	.58			.30	.05				.06	§2.29
Paris[2]	do	T.	.71	T.	T.		.53	.04			.05	.17								.34			.34	.25			.20	.05	T.			.82	3.00
Perry 1 mile E	do	.07	.65				.55				.30						.03			.30		.80		.43			.10	.03			.03	.07	2.86
Philadelphia	do	.15	.60	T.			.63				*	.10				T.				2.10			.59	.63			.32	.09			T.	.60	5.81
Polo[2]	Missouri	.05	.84		T.		.46	.17			.05	.11								1.48	T.		T.	.22			.37	.09	T.			.14	3.98
St. Charles[2]	do	.05	.91	T.	T.		.36	.13	T.		.03	.31					T.			.41		.45	1.13	.50	.07		.95	.20	T.			.95	6.45
St. Joseph Airport[1, 5]	do	.66	.22	T.	T.	.59	.40	T.		T.	.20	T.				T.			T.	1.22						.16	.10	T.			.16	.02	3.73
Salisbury	Chariton	.64	.20	T.		T.	.64				.15	.13				.10			.01	2.36		.55	T.	.38			.50	.01			T.	.12	5.79
Saverton, Lock No. 22[2]	Mississippi	.04	.88	.01	.02		.41	.12			.01	.09					.01			.22		T.	.51	.75	.03		.20	.14				.49	3.93
Shelbina	do	.19	.58				.62				*	.14				.04				1.68		.64	T.	.65			.39	.08			.22	.13	5.36
Shelbyville	do	.12	.46				.58				.14									1.63	.29			.67			.33					.43	4.65
Steffenville	do	.16	.59	.01			.53				.02	.06				.51			T.	1.58		.64		.22			.35	T.			.12	.27	5.06
Tarkio[3]	Missouri	.67	.39	.01		.68	.30	.01		T.	T.					T.			1.20	.32		.02				T.	.01	.01			.22	T.	3.84
Trenton[2]	Grand	T.	.59	T.		T.	.35	.19			.04	.08								1.70	.06						.36	.06	T.			.56	3.99
Troy[2]	Mississippi	.07	.76	T.	T.		.55	T.			.03	.12								.14		.45	1.00	.63	.16		.40	.20	T.			.90	5.41
Unionville[2]	Chariton	.03	.68	T.	.03		.51	.04				.06								1.92	.27	T.					.21		T.			.14	3.89
Vandalia	Mississippi	T.	.95	T.			.70				.10	.30		T.						.20		.72		.94			.26	.07			T.	.30	4.54
Warrenton	do	.28	.73	T.			.62	T.			.16	.26					T.			.23		1.67		.46			.73	.04			.38	.14	5.70
Keokuk, Iowa[1]	do	.41	.22	.01		.02	.69				.04	.01				.67			.77	1.55	T.	.36	T.				.20	.02			.18	.07	5.22
Southwestern Division																																	
Altona[2]	Osage	*	.60	T.			.65				*	.48								.40		*	.25	.25			.25	T.	T.			1.53	4.41
Anderson[2] 1½ mi. SW	Neosho	.92	.42				.42					.87										.37	.55	1.23			.50						5.28
Appleton City	Osage	.85	.08	T.		.12	.35				.21	.12								.19		.72	T.	.06			.35	T.			.07	.45	3.57
Ava Ranger Station[2]	White																																
Bolivar	Osage	1.74	.01	T.		.20	.30				.23	.10								.05		1.39	.20	.14			.15	T.			T.	.07	4.58
Boonville[2] (A)	Missouri	.11	.55	T.			.52	.07			.13	.18					.02			.25	.09	.04	.42	.16			.23	.06				.11	2.94
Boonville[2] (B)	do	.07	.75				.53	.02			.05	.08					.01			.21		.02	.41	.19			.21	.05	T.			.06	2.66
Bradleyville[2]	White	1.07	.65				.87	T.		T.		.72							.11			.07	.38	.22			.86				.06	.15	5.16
Buffalo[2]	Osage	.60	.85	.06	T.		.74	.04			.20	.47								T.		.60	.90	.50	.06		.27	T.			T.	.07	5.36
Butler	do	.75	.06	T.		.11	.45	T.			.21	.11							T.	.32		.59	.20	.09			.40	T.			1.10	.11	4.50
Camdenton	do	*	1.20			.40					.60									.12		1.05		.35		.22						.44	4.38
Caplinger Mills[2]	do	.11	.83	T.	T.		.62	T.			.10	.18								.05		T.	1.15	.23			1.09	T.				.30	4.66
Carthage	Neosho	2.15				*	.76				.15	.18								.15		1.70	.60	.04			.22					.12	6.07
Cassville[2]	White	1.21	.21				*	.77		.02	T.	.82								.83		.25	.64	.58			1.20					.15	6.68
Chadwick[2]	do	1.00	1.75				.90	.05		T.		.57								T.		.27	.60	.30			1.60					1.20	8.24
Clinton[3]	Osage	.70	T.	T.		.12	.25	T.		T.	.20	T.							T.	.10	T.	1.29	T.	.02		.14	.02	T.			.62	.07	3.53
Concordia	Missouri	.78	.26	T.		.06	.39				.20			.01	.01	.09				2.41		.15	*	.21			.82	.02				.73	§6.14
Crocker	Osage	1.35	.02			.67					.30	.15				T.				.44		1.71	T.	.25	.60			.05			.02	.26	5.82
Eldon	Missouri	.92	.10	T.		.33	.59			T.	.14	.15			T.					.10		1.04		.59			.29	.06			T.	.08	4.39
Eldorado Springs	Osage	.88	.06	T.		.07	.55				.25	.10								.18		.93	.31				.19	.05			T.	.15	3.72
Elijah[2]	White	*	.50				.40					.50											.68				.71				.40	.52	§3.71
Forsyth[2]	do	1.01	.75				.75	.05		.03		.75								.04		.05	.35	.25			.90					.40	5.33
Galena[2]	do	1.10	.65				.82	.02		.02	.02	.58								.35		.25	.98	.59	.01		1.20				.02	.78	7.39
Granby[2]	do	.75	.51				.38			.06	T.	.26								T.		.13	.42				.40					.03	2.94
Hailey	do	1.92				.50	.58				*	.80								.91			.51				.67						§5.89
Harrisonville[2]	Osage	.06	.97				.50				.13	.22								1.01		.05	.05	.90			.44		T.			.42	4.75
Jefferson City[2] (A)	Missouri	.12	.82	T.	T.		.60	.05			.04	.26								.11		.15	1.01	.67	.02		.18	.01	T.			.12	4.16
Jefferson City[2] (B)	do	.12	.68		T.		.58	.01			.05	.24								.07		.16	1.10	.58	.05		.28	.01	T.			.09	4.02
Joplin Airport[3]	Neosho	1.83	.02	T.		.18	.29		.01		.46	T.							T.	.15		1.17	1.11	T.		.13					T.	.02	5.37
Kansas City University	Missouri	.96	.10	.02		.15	.47				.20	.02				T.				1.29		.10	.02	.51		.89	T.	T.				.34	5.07
Lakeside[2, 5]	Osage	.23	.61		T.		.82	T.			.07	.25								.10		.28	.76	.34	T.		.18	.03	T.			.22	3.89
Lamar[2]	Neosho	.40	.77	T.			.40				.09	.20										.73	.72	.70			.09					.05	4.15

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Stations	Drainage basins	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Total
Southwestern Division—	*Concluded*																																
Lebanon	Osage	1.40	.10	T.	....	.12	.43	....	....	....	.20	.08	....	....	....	....	....	....	....	.20	....	1.19	.02	.30	....	....	.53	.02	....	....	.05	.22	4.86
Lexington[2]	Missouri	.09	1.05	T.	T.	....	.46	.08	....	....	.05	.15	....	....	....	....	....	....	....	2.12	.07	T.	....	.58	....	....	.74	.01	....	....	....	1.05	6.45
Lockwood	Osage	1.77	....	T.	....	.21	.18	....	....	....	.40	.07	....	....	....	....	....	....	....	....	....	.92	.35	.02	....	....	.15	....	....	....	....	.20	4.27
Mansfield[2]	White	.53	1.40	....	....	....	.53	.06	....	....	T.	.35	....	....	....	....	....	....	....	.12	....	.09	1.08	.28	....	....	.95	....	....	....	.04	1.33	6.76
Marshall	Missouri	.57	.53	T.	....	T.	.53	....	....	....	.06	.09	....	....	....	T.	....	....	T.	1.01	....	1.01	T.	....	....	....	1.11	.02	....	....	T.	.58	5.51
Marshfield	White	1.45	T.	T.	....	.32	.36	....	T.	....	.13	.15	....	....	....	....	....	....	....	.07	....	1.25	T.	.24	....	....	.36	T.	....	....	....	.21	4.54
Monett[2]	Neosho	.93	.41	....	....	....	.55	T.	....	.09	T.	.30	....	....	....	....	....	....	....	.10	....	.17	.78	.52	....	....	.66	....	....	....	....	.17	4.68
Mountain Grove[2]	Gasconade	.48	.62	....	....	....	.43	....	....	....	T.	.42	....	....	....	....	....	....	....	.17	....	.08	.52	.20	....	....	.74	....	....	....	.03	.65	4.34
Mount Vernon[2]	Neosho	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Neosho	do	1.33	....	T.	....	.06	.38	....	.04	....	.19	.03	....	....	....	....	....	....	T.	....	....	1.08	.34	.20	....	....	.78	....	....	....	.05	.02	4.55
Nevada	Osage	.98	.03	T.	....	.18	.33	....	....	....	.23	.06	....	....	....	....	....	....	T.	.15	....	.91	.60	.08	....	....	.11	....	....	....	.10	.18	3.94
Osceola[2]	do	.03	.74	....	....	....	.48	.11	....	....	.07	.25	....	....	....	....	....	....	....	.16	....	.22	.55	.16	....	....	.37	.04	....	....	....	.35	3.53
Ozark[2]	White	1.10	.69	....	....	....	.75	.05	....	.04	....	.46	....	....	....	....	....	....	....	.56	....	.09	.73	.35	....	....	.52	....	....	....	....	.24	5.58
Ozark Beach[2]	do	1.24	.63	....	....	....	.82	....	....	T.	T.	.51	....	....	....	....	....	....	....	....	....	.12	.43	.41	....	....	1.10	....	....	....	....	.34	5.60
Pierce City	Neosho	1.22	....	....	....	.22	.38	....	.04	....	.27	.10	....	....	....	....	....	....	.02	....	....	1.15	.33	.05	....	....	.70	....	....	....	....	T.	4.48
Pineview Lookout[2]	White	1.40	.55	T.	....	....	.72	....	....	.02	....	.69	....	....	....	....	....	....	....	.42	....	.32	.85	.53	....	....	1.53	....	....	....	....	.35	7.38
Pleasant Hill[2]	Osage	.04	1.05	T.	T.	....	.48	.03	....	....	.04	.17	....	....	....	....	....	....	....	1.98	....	....	.14	1.10	....	....	.48	.02	T.	....	....	.58	6.11
St. Thomas[2]. 2¼ mi SW	do	.18	.83	....	....	....	.62	.04	....	....	.06	.40	....	....	....	....	....	....	....	.16	....	.27	1.24	.24	....	....	.32	.03	....	....	....	.22	§4.61
Sedalia	Missouri	.68	.10	.01	....	.03	.63	....	....	....	.03	.12	....	....	....	....	....	....	....	.12	....	.45	....	.10	....	....	.42	.03	....	....	....	.54	3.36
Seligman[2]	Neosho	1.46	.37	....	....	....	.82	....	....	.10	....	.80	....	....	....	....	....	....	....	.49	....	.17	.50	.46	....	....	1.13	....	....	....	....	.23	6.53
Seymour[2] 4 mi. E	White	.43	1.61	....	....	....	.32	....	....	.02	T.	.19	....	....	....	....	....	....	....	.12	....	.10	.96	....	....	....	1.30	....	....	....	.03	.44	5.52
Shell Knob[2] 8 mi. SE	do	1.34	.50	....	....	....	.70	.02	....	.04	*	.56	....	....	....	....	....	....	....	.18	....	.11	.74	.58	....	....	1.20	....	....	....	....	.23	6.20
Springfield[1,6]. 4 mi. NW	Osage	1.25	T.	T.	....	.47	.12	....	T.	T.	.19	T.	....	....	....	....	....	....	T.	.07	....	1.15	.26	.02	....	.42	T.	.01	....	....	.05	.02	4.03
Stover[2]	Missouri	.72	.80	....	T.	....	.72	....	....	....	.03	.15	....	....	....	....	....	....	....	.17	....	....	.92	.30	....	....	.52	.02	....	....	....	.16	4.51
Sugar Camp Lookout[2]	White	.71	.43	....	....	....	.66	....	....	.03	*	.69	....	....	....	....	....	....	....	.51	....	.11	.46	.56	....	*	1.39	....	....	....	....	.25	5.80
Sweet Springs	Missouri	.64	.14	....	....	T.	.60	....	....	....	.16	.14	....	....	....	....	....	....	....	.69	....	1.09	T.	.42	....	....	.80	.08	....	....	T.	.93	5.69
Tecumseh[2] ¼ mi. W	White	.10	.89	....	....	....	.55	.02	....	....	....	.58	....	....	....	....	....	....	....	....	....	....	.58	.18	....	....	.62	.06	T.	....	.06	.17	3.81
Topaz[2]	do	.37	.67	....	....	....	.63	.03	....	....	....	.90	....	....	....	....	....	....	....	.90	....	.10	.30	.15	....	....	1.00	....	....	....	.08	.35	§5.48
Vanzant[2] 3¾ mi. SE	do	.40	.93	....	....	....	.70	.02	....	....	....	.34	....	....	....	....	....	....	....	.37	....	.06	.30	.21	....	....	.95	....	....	....	.10	.33	5.21
Waco[2]	Spring	.67	.96	....	....	....	.42	....	....	T.	T.	.25	....	....	....	....	....	....	....	.15	....	.60	.56	1.23	....	....	.06	....	....	....	....	.06	§4.96
Warrensburg	Missouri	.62	.06	.01	....	.03	.50	....	....	....	.18	.11	....	....	....	T.	....	....	....	.60	....	.30	....	.27	....	....	.73	.02	....	....	....	1.20	4.63
Warsaw (A)	Osage	.79	T.	T.	....	T.	.48	....	....	....	.12	.12	....	....	....	....	....	....	T.	.03	....	.85	T.	.23	....	....	.61	....	....	....	....	.30	3.53
Warsaw[2] (B)	do	.12	.75	T.	....	....	.55	....	....	....	.09	.23	....	....	....	....	....	....	....	....	....	.32	.41	.20	....	....	.30	.08	....	....	....	.30	3.35
Wasola[2]	White	.86	.84	....	....	....	.59	....	....	T.	....	.68	....	....	....	....	....	....	....	.58	....	.05	.50	.19	....	....	.90	....	....	....	.06	.22	5.47
Waverly[2]	Missouri	.08	.72	T.	.01	....	.30	.20	....	....	.08	.22	....	....	....	....	.03	....	....	1.30	.13	.01	.09	.33	....	....	.91	.05	....	....	....	.49	5.00
Waynesville 1½ mi. E	Gasconade	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Weaubleau[2]	Osage	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Wilderness Lookout[2]	White	1.29	.70	....	....	....	.79	T.	....	.02	....	.69	....	....	....	....	....	....	....	.13	....	.03	.39	.43	....	....	1.40	....	....	....	....	.31	6.18
Southeastern Division																																	
Advance[3] ¼ mile W	St. Francis	.93	T.	....	....	.01	.47	....	T.	T.	.04	.02	....	....	....	.05	....	....	.05	.02	....	.37	.32	.06	....	T.	2.08	T.	....	....	.90	....	5.32
Alton 10 miles SE	Black	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Annapolis[3] 7 mi. W	do	....	.48	....	....	....	.38	.04	....	....	....	.46	....	....	....	....	.03	....	....	.05	....	....	.48	.25	.02	....	.75	.54	....	....	....	1.48	4.91
Arcadia[2]	St. Francis	....	.61	....	....	....	.42	....	....	....	....	.60	....	....	....	....	....	....	....	.15	....	....	.73	.35	....	....	2.50	T.	....	....	....	1.30	6.66
Belleview[2]	Meramec	.01	.63	T.	T.	....	.35	.01	....	....	T.	.52	T.	....	....	....	T.	....	....	.06	.58	.51	.56	.37	.01	....	.88	.27	....	....	....	.68	5.44
Bernie[2]	St. Francis	....	1.35	....	....	....	.57	.08	....	....	....	.21	....	....	....	....	.13	....	....	.21	....	....	1.49	.55	....	....	1.11	.36	....	....	....	1.09	7.15
Birch Tree[2] ½ mile E	Black	.16	.46	....	....	....	.41	....	....	....	....	.65	....	....	....	....	....	....	....	....	....	.04	.38	.18	....	....	.54	.14	....	....	T.	.44	3.40
Black 9 miles NW	do	*	.78	.01	....	....	.36	T.	....	....	.40	.35	....	....	....	....	....	....	*	1.02	....	.55	*	.06	....	....	1.07	....	....	....	*	.86	§5.46
Bloomfield[2]	St. Francis	....	1.06	....	....	....	.54	.08	....	....	....	.12	....	....	....	....	.14	....	....	....	....	T.	.84	.46	.04	....	.78	.56	.03	....	....	.48	5.13
Bunker[2] 4 miles NW	Black	....	.40	.45	....	....	.55	....	....	....	....	.75	....	....	....	T.	....	....	....	.29	.06	.40	.43	.25	....	....	1.30	.25	....	....	T	1.10	6.23
Campbell	St. Francis	.03	1.16	....	....	....	.45	....	....	....	....	.12	....	....	....	.02	....	....	.15	T.	....	....	1.77	.47	....	....	2.86	....	T.	....	.52	.35	7.90
Cape Girardeau (A)	Mississippi	.03	.85	....	....	....	.45	.01	....	....	T.	.13	....	....	....	.07	.02	....	T.	.20	....	T,	.60	.16	....	....	1.32	.16	....	....	.48	.55	5.08
Cape Girardeau[2] (B)	do	....	.89	....	....	....	.37	.12	....	....	....	.15	....	....	....	....	.06	....	....	.21	T.	....	.53	.13	....	....	1.35	.10	....	....	....	1.03	4.99
Caruthersville[2]	do	....	1.72	T.	....	....	.40	.03	....	....	....	.10	....	....	....	....	.48	....	....	.41	.03	....	1.37	.83	T.	....	.10	.33	....	....	....	.73	6.58
Centerville(1)[2]	Black	.02	.62	....	....	....	.36	T.	....	....	....	.50	....	....	....	....	T.	....	....	.21	....	....	.83	.68	.02	....	.73	.20	....	....	T.	.85	4.52
Centerville(2)[2]	do	.01	.56	....	....	T.	.32	.02	....	....	....	.69	....	....	....	....	.03	....	....	.11	.04	....	.80	.32	.01	....	.72	.34	T.	....	....	.86	4.83
Clearwater Dam[2]	do	....	.66	....	....	....	.31	.02	....	....	....	.16	....	....	....	....	T.	....	....	.05	....	....	.35	.30	....	....	.75	.12	....	....	....	1.28	4.00
Cook Station[2]	Meramec	.12	1.12	....	....	....	.24	....	....	....	*	.37	....	....	....	....	....	....	....	.04	....	.18	.50	.25	....	....	.58	.33	....	....	....	1.25	4.98
Crane Mountain[2]	St. Francis	....	.56	....	....	....	.48	.01	....	....	....	.56	....	....	....	....	.07	....	....	.07	T.	....	.47	.24	T.	....	.60	.29	....	....	.02	1.65	5.02
Crystal City	Mississippi	.12	....	T.	....	....	.65	....	....	....	.08	.35	....	....	....	....	....	....	T.	.54	....	.45	.17	*	.48	....	1.12	T.	....	....	.28	.19	4.43
Cuba	Meramec	.54	.52	.01	....	T.	.42	....	....	....	.15	.25	....	....	....	....	....	....	T.	T.	....	1.07	.03	.31	....	....	.84	.01	....	....	.16	.27	4.58
Deering[3]	St. Francis	....	1.45	....	....	....	.55	T.	....	....	....	T.	....	....	....	....	.88	....	....	.33	....	....	1.49	.80	.03	....	.16	.71	....	....	....	1.08	6.98
De Soto	Mississippi	.18	.52	....	....	....	.82	....	....	....	.09	.32	....	....	....	....	.06	....	.02	.27	....	.48	.10	.48	....	....	1.01	....	....	....	.25	.27	4.37
Dexter[2]	St. Francis	....	1.24	....	....	....	.45	.12	....	....	....	.13	....	....	....	....	.05	....	....	.15	.04	T.	.96	.44	.06	....	.83	.43	....	....	....	.84	5.79
Doniphan(1)	Black	.37	.66	....	....	....	.65	....	....	....	.03	.27	....	....	....	T.	....	....	.10	....	....	.38	.24	.30	....	....	1.23	....	....	....	.95	.04	5.27
Doniphan(2)[2]	do	....	.93	....	....	....	.65	.07	....	....	....	.30	....	....	....	....	.03	....	.13	....	....	....	.53	.31	....	....	1.18	.05	....	....	....	1.10	5.28
East End[2]	Meramec	.10	.77	....	....	....	.38	....	....	....	....	.50	....	....	....	....	....	....	....	1.51	.43	.03	.52	....	....	....	.75	.73	....	....	....	.98	§6.70
Ellington[2]	Black	T.	.50	....	....	....	.35	....	....	....	....	.50	....	....	....	....	....	....	....	....	....	....	.45	....	....	....	.63	.85	....	....	....	1.26	4.54
Ellsinore	do	.02	.73	....	....	....	.20	....	....	....	T.	.32	....	....	....	.02	....	....	T.	T.	....	T.	.49	.29	....	....	1.34	....	....	....	.88	....	4.29
Farmington[2]	St. Francis	T.	.56	....	T.	T.	.32	.10	....	....	....	.43	....	....	....	....	T.	....	....	.07	.58	....	.79	.17	T.	....	1.07	.46	.02	....	....	1.38	5.95
Fisk[2]	do	....	1.11	....	....	....	.49	T.	....	....	....	.18	....	....	....	....	T.	....	....	.20	T.	....	.63	.30	T.	....	1.20	.15	....	....	....	.93	5.19
Fredericktown[2]	St. Francis	....	.59	....	....	....	.40	.03	....	....	....	.64	T.	....	....	....	.05	....	....	T.	....	....	.52	.21	....	....	.78	.05	T.	....	....	1.48	4.75
Fremont[2]	Black	.10	.50	....	....	....	.40	.20	....	....	....	.65	....	....	....	....	T.	....	....	.05	....	....	.43	.20	....	....	.62	.08	....	....	*	.37	3.60
Gerald	Meramec	.44	.79	T.	....	....	.59	....	....	....	.31	.30	....	....	....	....	.16	....	T.	.79	....	.99	....	.42	....	....	.94	T.	....	....	.22	.54	6.49
Greenville[2] 1 mi. SW	St. Francis	....	.73	....	....	....	.47	.03	....	....	....	.31	....	....	....	....	.02	....	....	.10	....	....	.42	.36	....	....	.96	.16	....	....	....	.93	4.49
Hermann[2]	Missouri	.04	.30	....	....	....	.92	....	....	....	.12	.40	....	....	....	....	....	....	....	.05	....	.37	1.10	.33	.08	....	.35	....	....	....	....	.64	4.70
High Lookout	Black	.33	.15	....	....	.31	....	....	....	....	*	.56	....	....	....	T.	....	....	.02	.12	....	.32	.16	.20	....	....	1.13	T.	....	....	.35	.11	3.76
Jackson	Mississippi	.02	.80	....	....	....	.45	T.	....	T.	....	.20	....	....	....	.09	....	....	....	.20	....	....	.64	.35	....	....	1.04	.31	....	....	.97	.63	5.70
Jerome[3]	Gasconade	.56	1.18	....	....	....	.71	....	....	....	.08	.26	....	....	....	....	....	....	....	.32	....	.26	1.08	.21	....	....	.34	....	....	....	....	.54	§5.54
Koshkonong[2]	Black	.02	.72	....	....	....	.50	.01	....	....	....	.90	....	....	....	T.	....	....	....	.05	....	....	.55	.23	....	....	.89	.25	....	....	....	.40	4.52
Leeper[3]	do	....	.74	....	....	....	.35	.01	....	....	....	.40	....	....	....	....	T.	....	....	.08	T.	....	.41	.32	....	....	....	.81	....	....	....	.66	3.78
Licking[2]	Gasconade	.10	1.10	....	....	....	.30	....	....	....	....	.27	....	....	....	....	....	....	....	....	....	....	.76	....	....	....	1.05	....	....	....	....	1.30	4.88
Macedonia Lookout[2]	Black	....	.87	....	....	.48	.04	....	....	....	....	.26	....	....	....	....	T.	....	....	.12	....	....	.46	.37	....	....	1.32	T.	....	....	....	.86	4.78
Marble Hill	Mississippi	....	....	.12	....	....	.51	....	....	....	....	.42	....	....	....	.28	....	....	T.	....	....	....	.55	.43	....	....	....	....	....	....	1.38	.96	4.65
Morehouse	do	T.	1.71	....	....	....	.57	....	....	....	....	.14	....	....	....	.03	T.	....	T.	.02	....	....	1.57	.20	....	....	.96	.70	....	....	.57	.57	7.04
Moselle[2]	Meramec	.08	.97	....	.02	....	.30	....	....	....	....	.40	....	....	....	....	....	....	....	.02	....	.04	1.53	.50	.02	....	.52	.25	T.	....	....	1.10	§5.75
New Madrid[2]	Mississippi	....	1.08	T.	....	....	.47	T.	....	....	....	.06	....	....	....	....	.14	....	....	.22	.12	....	1.54	.74	.04	....	1.43	.87	....	....	....	1.68	8.39
Oates Tower[2]	Black	.02	.61	....	T.	T.	.24	.02	....	....	....	.22	....	....	....	....	T.	....	....	.04	.02	T.	.56	.11	T.	....	.58	.08	....	....	....	.75	3.25
Owensville[2]	Gasconade	.25	.95	....	....	....	.52	T.	....	....	.12	.40	....	....	....	....	.06	....	....	.34	....	....	1.38	.34	.06	....	.82	.10	....	....	....	.73	§6.07
Pacific[2]	Meramec	*	.85	T.	....	....	.42	T.	....	....	.03	.37	....	....	....	....	....	....	....	....	....	*	1.50	.46	T.	....	1.02	.08	....	....	....	.84	§5.57
Parma[2]	St. Francis	....	1.26	....	....	....	.50	....	....	....	....	.10	....	....	....	....	.02	....	....	.17	T.	....	1.66	.75	....	....	1.65	.88	....	....	....	1.21	8.20
Perryville	Mississippi	T.	.50	....	....	....	.34	....	....	....	.20	.42	....	....	....	....	....	....	T.	.06	....	.01	.30	.11	....	....	.64	.03	....	....	.92	.27	3.80
Poplar Bluff[2]	Black	....	1.00	....	....	....	.49	T.	....	....	....	.15	....	....	....	....	.01	....	....	.20	.02	....	.44	.26	T.	....	1.67	.08	....	....	....	.73	5.05
Puxico[2]	St. Francis	....	.93	....	....	....	.46	T.	....	....	....	.25	....	....	....	....	.03	....	....	.15	....	....	.42	.33	....	....	1.73	.26	....	....	....	.81	5.37
Qulin[2]	do	....	1.43	....	....	....	.54	.02	....	....	....	.19	....	....	....	....	T	....	....	.17	.02	.04	1.14	.49	....	....	.87	.31	....	....	....	.73	5.95
Reynolds[2]	Black	.05	.52	....	....	....	.30	....	....	....	....	.45	....	....	....	....	.04	....	....	.03	.30	....	.62	.25	.03	....	.60	.10	....	....	....	.74	4.08
Richwoods[2]	Meramec	.12	.65	....	....	....	.44	.02	....	....	T.	.37	....	....	....	....	....	....	....	.02	....	*	.99	.43	T.	....	.79	T.	....	....	....	.46	4.29
Roby	Gasconade	1.42	.11	T.	T.	T.	.40	....	....	....	.03	.04	....	....	....	....	....	....	T.	T	....	1.06	.04	.05	....	....	1.25	....	....	....	.07	.68	5.15
Rolla[3]	Meramec	.45	.70	T.	T.	....	.54	....	....	....	.07	.20	....	....	....	....	....	....	....	.02	....	*	1.30	.25	....	....	.65	T.	....	....	....	.53	4.71
Round Spring[2]	Black	....	.67	....	....	....	.45	....	....	....	....	.55	....	....	....	....	.40	....	....	.10	....	....	.57	....	....	....	.77	.29	....	....	....	.75	4.55
St. Louis:																																	
City Office[1,5]	Mississippi	.62	.08	T.	T.	.03	.31	....	....	....	.32	T.	....	....	....	T.	....	....	.01	.04	....	.99	.29	.41	....	T.	.98	T.	....	....	.69	.59	5.31
Airport[3,5]	Missouri	.67	.12	T.	T.	.05	.48	T.	....	....	.40	.07	....	....	....	T.	....	....	.01	T.	....	1.77	.30	.55	....	T.	1.21	.01	....	....	.35	.41	6.40
St. Louis Univ.[1,5]	Mississippi	.69	.02	T.	....	.07	.37	T.	....	....	.31	.09	....	....	....	....	....	....	.03	.01	....	1.11	.41	.46	....	....	1.19	T.	....	....	.73	.48	5.97
Washington Univ.[2]	do	.04	.69	....	....	....	.48	.06	....	....	.01	.31	....	....	....	....	....	....	....	....	....	.20	1.10	.92	.03	....	.77	.01	....	....	....	1.20	5.82

Continued on next page

Daily Precipitation for March 1948—Continued from preceding page

Stations	Drainage-basins	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Total
Southeastern Division —	*Concluded*																																
Salem	Meramec	.93	.11	....	....	....	.35	....	....	....	.05	.43	....	....	....	....	....	....	....	.31	....	.99	.10	.32	....	....	1.23	....	....	....	.18	.74	5.74
Sikeston[2]	Mississippi	....	1.12	....	....	....	.59	.06	....	....	....	.16	....	....	....	....	.04	....	....	.10	.04	T.	1.46	.37	T.	....	.59	.34	.02	....	....	1.19	6.08
Siloam Sprgs Lookout[2]	White	....	.47	.26	....	....	....	....	....	....	....	.75	....	....	....	....	....	....	....	....	....	....	.12	....	....	....	.49	....	....	....	*	.41	§2.50
Steelville[2] ...2½ mi. NE	Meramec	.25	.85	....	....	....	.32	....	....	....	....	.31	....	....	....	....	....	....	....	....	.10	....	.87	....	.22	....	.67	.22	T.	....	....	.87	4.68
Sullivan[2]	....do	.07	.70	T.	T.	....	.35	T.	....	....	.03	.16	....	....	....	....	....	....	....	T.	....	.11	.66	.33	.04	....	.51	.11	T.	....	....	.36	3.43
Summersville[2]	Black	.14	.63	....	....	....	.45	T.	....	....	....	.62	....	....	....	....	....	....	....	.39	T.	.15	.43	.21	....	....	.71	.51	....	....	.08	.52	4.84
Union[2] ....1½ mi. SE	Meramec	.08	.91	....	T.	....	.38	.03	....	....	.01	.27	....	....	....	....	....	....	....	T.	....	.28	1.28	.45	.01	....	.77	.06	T.	....	....	.65	5.18
Valley Park[2]	....do	.04	.76	....	....	....	.45	T.	....	....	T.	.55	....	....	....	....	T.	....	....	T.	....	.19	1.28	.48	.09	....	.79	.04	T.	....	....	1.13	5.80
Van Buren[2]	Black	....	.58	....	....	....	.48	....	....	....	....	.69	....	....	....	....	....	....	.05	....	....	....	.40	.05	....	....	1.07	.08	....	....	....	.68	4.08
Vichy[3] .....2 miles NW	Meramec	1.34	.10	T.	T.	.20	.38	T.	....	....	.35	.03	....	....	....	....	....	....	T.	.16	....	1.38	.36	.04	....	.06	.49	T.	....	....	.69	.51	6.09
Wappapello Dam[2]	St. Francis	....	1.04	....	....	....	.46	.02	....	....	....	.21	....	....	....	....	.02	....	....	.09	....	T.	.41	.25	T.	....	1.85	.21	T.	....	T.	1.21	5.77
Webster Groves	Mississippi	.18	.54	....	....	....	.58	....	....	....	.05	.28	....	....	....	....	....	....	....	T.	....	1.00	.07	.98	....	....	1.00	.01	....	....	.57	.66	5.92
Weingarten	....do	...	.55	....	....	....	.37	....	....	....	*	.20	....	....	....	....	....	....	....	.75	....	.37	.38	.34	....	....	1.80	....	....	....	.25	1.25	6.26
West Plains[3]	Black	.48	T.	....	....	.14	.26	....	T.	T.	.66	T	....	....	....	T.	....	....	T.	....	....	.38	.16	T.	....	....	.58	T.	....	....	.29	T.	2.95
Williamsville[2]	....do	T.	.98	....	....	....	.48	....	....	....	....	.40	....	....	....	....	T.	....	....	.12	....	....	.40	.26	....	....	1.19	....	....	....	....	1.03	4.86
Willow Springs[2] 500 ft E	White	.15	.86	....	....	....	.52	.02	....	....	....	.46	....	....	....	....	....	....	....	.33	.02	.13	.40	.17	....	....	.62	.07	*T.*	....	....	.29	4.04
Zalma[2]	Mississippi	....	.96	....	....	....	.54	.03	....	....	....	.12	....	....	....	....	.06	....	....	.15	....	....	.51	.40	.02	....	1.10	....	....	....	....	1.30	5.19
Cairo, Ill.[1], [6]	....do	.86	.03	....	....	....	.47	....	....	T.	.06	.07	....	....	....	.05	....	....	.12	.01	T.	.80	.98	.12	....	....	2.17	T.	....	....	.88	....	6.62

Except as otherwise indicated, amounts are for 24 hours ending late in afternoon. [1] Midnight to midnight. [2] Measured in the morning; for the preceding 24 hours. [3] Data for 24 hours ending 12:30 A. M. (C. S. T.) of following day. [6] Recording gage. T. Trace or 0.005 inch or less. * Included in next measurement. // Windshield on gage. Italics data interpolated. § Partly interpolated. (A) Record from cooperative station gage. (B) Record from river station gage. (C) Airport. ‡ Received too late to be included in means and extremes.

Daily Evaporation (inches), Mean Temperature (F°), and Wind Movement (miles) for March 1948

(See precipitation data in daily precipitation table)

Station	Data	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Monthly
Columbia (Univ. of Mo. Hort. Exp. Sta. 9 mi. WNW.)	Evaporation	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
	Mean temperature	35	32	28	29	30	32	29	29	28	20	5	11	27	44	60	52	42	54	64	63	62	44	54	56	64	63	44	37	52	52	48	41.6
	Wind movement	97	82	95	122	118	69	157	81	47	170	140	53	57	117	170	123	10	109	231	81	85	80	76	18	116	159	220	81	155	105	76	3,300
Lakeside (Osage Dam)	Evaporation	.071	.026	.032	*	.120	.013	*	*	.116	....	....	....	....	....	.028	.160	.094	.106	.197	.174	.180	.072	.029	.044	.153	.258	.301	.043	.127	.173	.051	3.062
	Mean temperature	37	38	32	36	30	33	34	31	27	20	10	12	26	40	56	48	46	52	56	58	58	46	55	56	60	65	35	40	48	52	50	41.5
	Wind movement	88	86	101	112	94	49	94	129	42	103	105	58	60	73	108	158	29	31	175	83	65	50	74	6	37	123	251	110	77	83	99	2,753
St. Louis (Washington University)	Evaporation	.190	.000	.043	*	*	.435	.028	*	*	*	*	*	*	*	.337	.034	.092	.110	.055	.196	.168	.072	.000	.023	.104	.146	.089	*	.162	.158	.000	2.366
	Mean temperature	36	40	32	34	33	34	37	32	32	20	16	18	29	42	52	48	48	55	61	67	66	48	48	56	60	66	40	40	52	48	52	43.4
	Wind movement	78	63	58	102	129	73	41	51	31	104	135	56	25	50	83	83	41	35	91	45	56	59	62	15	15	63	66	73	55	67	55	1,960

Observations taken at 8:00 a. m. except at 5:00 p. m. at Columbia. For Lakeside and St. Louis (Washington University) descriptions see April 1932 and August 1938 reports, respectively. * Included in next measurement.

(Continued from page 19)

Roby, St. Louis Airport, Vichy, West Plains; 30th at Butler, Monett, Neosho, West Plains, north-central Taney County. Moderate, 19th at Weingarten; 22d at Jackson; 25th at Tarkio; 26th at Warrenton, De Soto, Fremont Tower, St. Louis University, Salem, Wappapello Dam; 30th at Cassville, Sugar Camp Lookout. Heavy, 19th at Herculaneum; 26th at New Florence, Crystal City, Warrenton; 30th at Seligman. (See special storm table).

Sleet.—1st, 2d, 3d, 5th, 6th, 9th, 10th, 11th, 26th, 27th.

Tornadoes.—19th, 26th, 30th. (See special storm table).

Windstorms.—19th, 25th. (See special storm table).

Daily Temperatures for March 1948

Stations		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Northern Division																																	
Brunswick /	Maximum..	34	33	31	35	37	38	35	37	34	14	14	31	45	60	71	55	56	69	70	76	61	50	65	73	77	72	37	52	62	58	51	49.5
	Minimum ..	26	31	26	21	21	24	20	20	18	8	-2	-5	-5	16	36	36	29	28	42	50	48	37	37	44	45	53	34	26	26	40	40	28.1
Chillicothe 2 mi ESE(C)	Maximum..	32	31	29	29	33	35	29	33	18	12	13	29	42	55	66	52	54	66	67	74	67	54	67	74	76	69	37	51	58	60	51	47.2
	Minimum ..	30	24	24	16	21	22	14	16	9	0	-5	-7	12	31	35	33	27	38	50	46	39	33	41	42	48	34	29	24	41	38	35	27.1
Columbia	Maximum..	37	40	32	37	35	39	37	38	32	21	18	29	44	60	74	56	59	70	72	82	74	48	65	74	79	77	36	54	65	61	54	51.6
	Minimum ..	31	29	27	28	27	29	24	23	21	5	-1	-4	19	38	40	38	32	43	57	52	44	40	46	44	54	35	30	24	43	44	37	32.1
Fayette	Maximum..	39	34	31	37	38	34	37	38	34	25	13	31	45	58	73	61	56	69	72	80	74	47	64	73	78	75	50	52	65	59	54	51.5
	Minimum ..	31	30	25	20	30	19	21	23	18	3	-3	-10	11	31	46	34	28	41	55	47	46	38	44	40	51	50	35	23	38	42	42	30.6
Grant City	Maximum..	32	29	28	25	27	32	26	26	24	10	10	29	40	46	50	46	49	62	65	73	64	65	70	74	74	67	*40*	54	53	61	51	§45.2
	Minimum ..	29	24	20	12	18	24	13	12	4	-2	-11	-9	10	26	37	30	25	36	47	42	38	28	35	43	49	*40*	26	19	39	35	38	§25.1
Hannibal	Maximum..	32	32	29	34	34	38	34	37	30	17	18	29	45	59	70	55	53	65	69	81	70	48	62	69	74	77	41	52	60	57	51	49.1
	Minimum ..	28	26	23	19	20	29	22	21	15	5	-1	-6	14	34	43	35	30	38	52	47	42	37	42	40	45	40	29	25	39	34	37	29.2
Kansas City Airport	Maximum..	34	33	30	34	31	37	31	33	23	14	14	32	48	59	67	52	56	66	70	77	71	49	71	77	77	65	33	55	64	64	53	49.0
	Minimum ..	31	27	26	21	24	22	15	18	14	1	-3	3	21	38	39	34	29	42	48	45	40	36	43	45	55	33	30	28	45	45	38	30.1
Kirksville	Maximum..	32	31	27	32	33	36	34	34	27	15	13	30	42	55	63	53	54	69	66	74	71	56	64	71	74	72	50	50	55	61	51	48.2
	Minimum ..	29	25	21	14	17	29	18	19	8	4	-6	-5	14	31	40	34	28	35	51	44	41	31	41	43	47	49	29	23	41	32	39	27.9
Lathrop	Maximum..	32	33	32	31	32	39	32	26	23	15	13	32	45	53	63	51	54	63	69	75	69	52	67	74	75	69	40	53	61	62	52	48.0
	Minimum ..	29	22	22	15	20	27	12	12	8	2	-7	-3	16	32	42	32	26	38	52	47	40	31	38	44	50	40	29	22	41	40	41	27.7
Louisiana	Maximum..	39	36	32	38	36	42	38	37	37	31	19	30	46	59	70	63	57	65	71	82	76	61	62	70	74	76	60	53	63	58	54	52.7
	Minimum ..	30	30	26	21	19	33	26	23	19	14	2	-17	8	34	47	38	28	37	57	39	59	41	44	34	45	55	33	26	38	38	44	31.3
Macon /	Maximum..	32	32	29	30	34	37	35	38	28	15	20	31	47	60	71	56	56	67	67	78	63	51	65	72	75	74	36	51	61	62	51	49.2
	Minimum ..	23	27	21	15	16	19	18	19	13	5	-6	-7	0	20	42	34	26	30	39	44	48	33	35	39	42	50	33	22	34	33	35	25.9
Maryville	Maximum..	33	30	29	28	25	34	30	28	21	11	10	30	41	45	49	42	48	63	64	74	65	54	68	75	74	68	34	56	52	60	50	44.9
	Minimum ..	25	23	20	11	16	21	8	5	2	-4	-14	-4	7	24	34	28	23	35	44	43	37	27	33	42	49	34	25	17	37	36	35	23.2
Mexico /	Maximum..	33	35	29	37	35	40	38	39	31	16	18	31	46	59	73	58	58	69	73	82	63	48	65	74	79	78	40	54	65	60	54	51.0
	Minimum ..	28	30	25	21	21	25	24	24	19	11	-2	-6	-5	21	34	36	30	30	41	49	59	40	40	38	40	52	32	23	26	39	41	28.6
Moberly /.... 3½ mi. NE	Maximum..	41	39	29	39	35	38	35	37	32	15	15	29	50	60	70	57	59	*68*	68	72	56	65	68	70	63	72	35	51	68	50	51	§49.6
	Minimum ..	29	30	23	19	24	25	20	21	17	7	-4	-7	11	21	42	35	28	38	54	47	48	37	39	48	50	50	32	28	34	38	48	30.1
Oregon	Maximum..	34	32	32	34	30	37	33	35	19	12	11	33	46	48	52	43	53	66	67	74	63	56	71	77	78	67	33	58	58	61	52	47.3
	Minimum ..	31	21	20	16	12	19	10	9	3	-1	-11	-6	14	31	34	30	26	38	41	43	38	29	36	46	52	30	25	21	44	41	34	25.0
St. Charles	Maximum..	40	51	36	40	40	44	43	39	37	33	23	33	49	60	64	61	59	66	77	85	76	60	55	73	76	77	68	56	70	61	56	54.9
	Minimum ..	32	36	29	26	25	34	31	24	24	17	7	-1	16	30	47	39	34	40	58	51	59	45	46	40	41	56	34	27	40	41	47	34.7
St. Joseph Airport	Maximum..	34	31	32	30	28	33	30	33	18	9	13	34	47	51	48	46	56	67	68	76	63	56	73	78	78	62	33	58	60	63	51	47.1
	Minimum ..	30	24	24	17	22	18	11	8	8	-1	-7	-8	5	31	36	31	26	37	42	40	38	32	39	43	50	31	28	23	44	48	33	25.7
Trenton	Maximum..	39	34	32	30	33	39	32	33	29	16	14	35	44	55	61	53	53	67	70	67	65	56	67	74	76	70	43	*53*	57	62	54	§48.8
	Minimum ..	28	26	24	16	18	28	17	19	8	4	-5	5	19	32	44	33	28	38	52	41	42	32	36	43	50	43	30	23	44	37	40	28.9
Unionville /	Maximum..	32	31	32	28	31	37	29	32	20	11	12	32	40	52	59	52	54	66	66	74	62	56	66	72	74	73	38	52	54	62	49	46.7
	Minimum ..	20	18	20	12	14	16	13	14	2	0	-11	-9	-2	13	33	32	27	29	39	43	45	28	31	35	41	48	28	21	27	32	33	22.3
Warrenton	Maximum..	40	47	34	39	36	42	40	38	36	32	21	32	48	58	66	61	58	67	75	82	79	60	60	72	75	75	57	54	66	61	55	53.7
	Minimum ..	30	32	26	23	23	31	27	19	19	15	1	-11	15	33	49	37	30	38	52	46	58	42	44	38	49	55	33	22	40	40	45	32.3
Keokuk, Iowa	Maximum..	33	31	29	30	34	39	31	35	22	15	16	31	47	57	64	53	53	64	65	76	67	53	64	69	71	76	43	51	55	60	51	47.9
	Minimum ..	30	26	25	18	18	29	23	22	13	9	0	2	21	39	38	37	33	40	51	47	42	37	44	43	48	43	32	27	36	34	36	30.4
Southwestern Division																																	
Clinton	Maximum..	37	40	32	40	32	39	39	36	29	20	18	32	48	62	74	56	62	70	74	82	63	46	69	79	79	70	34	54	68	65	51	51.6
	Minimum ..	35	29	28	26	29	27	21	20	20	4	-3	-5	14	33	38	36	30	41	51	47	43	41	44	42	54	34	29	25	40	45	39	30.9
Eldon	Maximum..	40	43	34	41	36	35	40	38	35	30	16	33	48	59	73	69	61	72	75	80	75	58	65	75	78	75	58	54	66	62	58	54.3
	Minimum ..	32	31	27	21	24	31	23	21	23	12	-3	4	15	34	47	37	31	40	57	48	56	42	43	41	50	56	30	25	39	43	43	33.0
Harrisonville /	Maximum..	34	35	32	27	31	39	35	37	30	14	22	34	44	69	72	57	57	66	79	79	62	52	70	76	78	65	57	56	73	64	49	51.5
	Minimum ..	24	31	25	22	22	26	14	13	18	7	-5	-4	0	18	29	34	28	30	45	50	51	38	39	41	51	51	20	21	40	44	45	28.0
Jeffersou City	Maximum..	41	41	33	42	35	39	40	37	33	31	16	33	48	59	74	69	60	73	74	81	73	52	64	73	79	77	57	54	66	59	57	53.9
	Miuimum ..	32	32	27	25	25	32	25	22	22	13	1	-11	3	36	42	38	30	39	61	42	51	41	44	37	51	57	31	23	39	43	43	32.1
Joplin Airport	Maximum..	52	46	35	44	34	38	42	33	37	26	16	32	49	62	72	54	63	70	75	79	70	47	68	78	78	67	36	52	70	74	54	53.3
	Miuimum ..	39	32	29	26	28	30	22	24	26	4	-5	-5	13	41	40	34	30	45	54	53	44	40	40	45	52	33	31	25	43	50	43	32.5
Lamar /	Maximum..	55	39	35	45	33	40	42	37	33	14	19	31	47	64	73	54	65	72	75	81	64	48	69	76	80	67	45	53	69	71	54	53.2
	Minimum ..	28	35	27	25	25	25	18	20	22	11	-6	-9	-5	11	42	31	29	30	45	48	55	40	36	42	51	55	30	21	30	43	46	29.1
Lebanon	Maximum..	51	46	35	44	42	37	41	40	36	35	20	33	47	61	71	68	64	70	74	80	77	60	64	75	75	74	61	54	67	65	59	55.7
	Minimum ..	34	34	26	24	24	31	24	19	23	12	-4	-5	11	35	51	37	30	43	50	50	56	42	37	42	52	55	30	22	40	45	45	32.7
Lexington /	Maximum..	33	31	31	36	36	37	33	35	27	13	15	33	46	59	71	57	57	67	71	80	61	49	69	78	78	70	33	55	65	61	45	49.4
	Minimum ..	29	31	25	21	21	25	16	18	15	6	-5	-4	3	18	42	35	29	31	45	51	55	37	37	43	50	53	30	26	31	42	45	29.1
Marshall	Maximum..	50	34	30	35	34	37	36	37	35	25	14	30	45	59	72	65	55	70	69	79	78	47	63	75	78	75	54	51	62	60	54	51.9
	Miuımum ..	31	30	25	21	20	30	18	20	19	8	4	-4	14	35	48	34	30	39	54	47	47	38	45	45	51	52	31	26	42	41	42	31.7
Mountain Grove	Maximum..	49	44	37	43	40	43	43	39	38	37	22	34	40	58	68	65	62	67	75	82	76	62	58	73	74	75	60	55	69	67	55	55.2
	Minimum ..	39	36	28	25	26	33	28	21	31	15	0	-8	16	30	50	36	31	41	52	52	50	47	37	46	48	54	31	24	32	47	47	33.9
Neosho	Maximum..	56	48	37	45	45	37	45	43	38	37	24	38	49	64	74	70	64	70	75	81	79	63	69	79	79	77	58	56	71	72	71	58.5
	Minimum ..	40	32	30	28	31	31	22	20	30	13	-1	-11	9	39	58	34	25	44	59	44	57	44	39	38	51	56	32	22	41	46	49	33.9
Nevada	Maximum..	54	41	35	44	41	41	41	40	34	29	24	33	47	63	73	57	63	69	75	80	74	50	72	77	80	75	42	54	70	72	62	55.2
	Minimum ..	36	33	27	27	28	29	18	19	25	9	-4	-7	13	33	53	34	30	44	57	49	49	41	41	44	43	41	31	21	42	49	45	32.3
Sedalia	Maximum..	42	36	32	38	37	37	37	37	36	29	14	30	47	60	72	64	58	70	71	80	78	50	65	75	78	75	55	51	64	63	57	52.8
	Minimum ..	32	32	27	24	26	29	21	20	22	10	-4	-7	16	35	50	36	29	40	58	49	49	40	44	45	53	53	31	24	41	43	43	32.6
Springfield....4 mi. NW	Maximum..	48	45	32	42	32	33	40	31	36	28	14	32	43	62	71	51	61	68	73	81	68	59	65	75	76	70	34	55	66	64	53	51.9
	Minimum ..	36	30	27	25	27	31	22	22	28	5	-3	-3	10	35	45	36	31	44	54	49	48	39	38	45	52	34	30	25	37	50	40	31.9
Warrensburg	Maximum..	42	34	37	38	37	38	37	38	37	27	12	30	45	60	72	69	58	69	72	79	77	50	68	76	77	76	49	52	67	64	57	53.0
	Minimum ..	32	32	27	23	26	29	18	20	20	7	-3	-2	15	36	50	37	30	42	56	50	50	40	44	46	53	49	31	25	42	44	43	32.6
Southeastern Division																																	
Arcadia /	Maximum..	50	53	37	43	42	45	50	44	44	32	30	42	50	55	64	67	67	72	80	86	74	60	49	75	77	78	39	64	70	56	60	56.6
	Minimum ..	29	32	29	27	24	23	26	22	23	24	9	0	-1	11	22	34	29	29	33	40	41	52	43	35	35	44	34	25	34	37	46	28.7
Birch Tree.... ½ mile E	Maximum..	54	48	40	43	42	42	48	46	45	41	26	35	45	61	61	60	65	67	78	81	78	63	58	74	75	77	62	56	70	67	59	57.0
	Minimum ..	35	40	30	27	27	35	26	21	34	18	6	-5	-1	31	52	36	30	35	54	42	55	52	41	36	44	52	33	25	32	46	51	33.5
Caruthersville	Maximum..	51	64	62	42	51	50	56	54	45	45	41	35	49	64	63	65	64	68	82	80	80	78	61	70	77	79	68	50	65	64	71	61.1
	Minimum ..	41	49	39	32	33	40	35	32	39	36	20	17	23	32	52	57	39	49	57	64	67	57	45	46	52	63	40	34	40	52	54	43.1
Crystal City	Maximum..	45	54	47	42	45	44	46	43	42	38	29	35	51	62	62	62	64	70	78	86	78	62	63	72	79	79	67	57	74	68	57	58.1
	Minimum ..	34	38	31	30	25	36	33	24	27	19	9	-2	9	34	53	41	30	37	59	43	61	48	48	37	42	56	36	27	37	45	52	35.5
Doniphan	Maximum..	49	60	45	43	45	46	54	47	48	43	32	41	53	65	63	66	68	70	84	85	78	63	60	74	79	80	67	59	69	60	69	60.2
	Minimum ..	39	44	36	31	30	39	26	22	32	25	15	9	11	26	55	41	28	35	56	46	62	57	41	36	40	56	37	25	38	52	50	36.8
Farmington	Maximum..	47	51	41	40	41	42	46	42	41	36	24	37	50	59	59	60	63	68	77	84	75	58	56	72	76	78	65	57	70	66	58	56.1
	Minimum ..	31	37	27	27	22	35	29	21	27	16	7	0	9	31	51	37	34	38	51	47	56	48	41	35	45	55	31	25	35	40	48	33.4
Jackson	Maximuuı..	53	61	48	44	48	45	52	48	45	43	28	34	49	60	60	60	65	70	82	83	78	74	59	73	76	78	66	54	65	64	64	59.0
	Minimum ..	36	43	33	29	26	39	32	25	34	25	13	8	15	31	52	47	30	44	57	47	68	54	45	38	41	56	37	26	36	48	52	37.6
Poplar Bluff	Maximum..	50	62	47	41	45	45	55	54	45	43	32	42	52	64	64	65	69	68	84	84	78	67	60	73	77	78	71	55	67	61	68	60.2
	Minimum ..	38	44	36	32	29	39	30	27	36	28	16	11	18	27	54	48	35	40	56	49	67	58	45	40	44	55	38	30	38	50	50	39.0
Rolla /	Maximum..	45	44	31	37	40	41	37	34	33	18	19	46	55	59	68	55	56	64	75	81	59	45	63	73	67	67	47	55	67	52	51	51.1
	Minimum ..	32	32	27	26	24	28	21	20	27	15	-1	-1	6	35	51	37	34	39	51	48	59	43	39	43	49	55	31	25	39	42	48	33.0
St. Louis	Maximum..	41	49	33	42	42	43	41	37	36	28	20	32	46	61	62	60	59	65	75	82	73	57	53	70	73	74	44	55	67	54	55	52.5
	Minimum ..	33	31	29	27	25	35	29	26	26	14	8	7	22	35	53	39	38	43	58	54	57	45	47	47	52	44	33	31	48	44	44	36.1
Salem	Maximum..	48	47	38	42	39	41	44	39	40	36	22	35	50	60	65	62	64	70	76	83	76	60	59	74	77	76	59	56	71	63	55	55.7
	Minimum ..	34	38	28	26	25	35	31	20	29	17	0	-8	7	33	52	38	29	36	53	44	57	50	40	39	48	53	32	25	36	54	47	33.8
Sikeston /	Maximum..	52	65	41	39	48	44	54	44	45	40	29	35	50	63	63	61	66	72	82	83	80	62	59	73	77	77	48	53	65	62	66	58.0
	Minimum ..	35	39	35	30	29	30	31	27	29	31	16	12	14	25	39	50	36	36	44	60	63	58	45	44	45	52	40	30	34	42	53	37.2
Union ....1½ mi. SE	Maximum..	42	48	38	41	39	44	42	39	36	34	20	32	50	61	66	63	60	70	76	83	78	61	58	71	77	78	63	55	68	62	57	55.2
	Minimum ..	32	36	29	27	25	34	29	22	21	16	8	-7	5	32	41	39	31	32	58	40	59	40	45	37	44	55	34	25	32	41	45	32.3
West Plains	Maximum..	46	48	37	42	42	42	49	38	44	36	26	35	47	61	65	60	63	68	79	83	75	62	59	75	75	77	42	56	70	57	59	55.4
	Minimum ..	36	36	30	28	28	32	25	22	35	15	4	-8	1	26	55	40	31	35	47	44	56	43	40	36	42	42	33	26	30	50	45	32.4
Cairo, Ill.	Maximum..	52	62	43	39	48	44	53	43	45	42	29	36	50	63	63	61	65	72	80	81	79	62	59	71	77	77	56	52	65	60	66	57.9
	Minimum ..	40	42	34	32	30	41	35	30	37	24	18	15	24	36	57	46	38	48	64	63	58	50	47	48	52	56	37	33	41	53	51	41.3

/ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs. ᵃ, ᵇ, ᶜ, etc., number of days missing, for example, ᵇ indicates two days missing. Italics data interpolated. § Partly interpolated. (C) Airport.

Missouri Storms, March 1948

County	Date	Time	Nature of storm	Storm moved from	Width of path (miles)	Length of path (miles)	Loss of life	Property damage (estimated)	Remarks
Pemiscot	19	4:30 a.m.	High wind	SW	½	....	0	$2,000	Storm at Caruthersville where several roofs were blown off; some sign boards destroyed and trees blown down. No crop damage.
Caldwell	19	5:00 a.m.	Tornado	SW	650 feet	2	0	$15,200	11 farm buildings damaged in Easterville community; one residence and the bell tower of Easterville Church also damaged. Some chickens killed. Most people still in bed when strom struck.
St. Charles	19	5:30 a.m.	Tornado	SW	¼	....	0	Not reported	At Defiance power and telephone lines blown down. Hickory trees(some 50 years old) upooted, and sign boards scattered by the winds. Many farm buildings destroyed. Some plate glass windows blown in. Damage to buildings restricted to frame structures. Losses estimated at 30%.
Shelby	19	a.m. (hour not known)	High wind	W	....	....	0	Minor	Storm ocurred in scattered areas of County. Damage reported in small areas 20 miles north and 15 miles west, and also 10 miles east of Shelbina. Damage mostly confined to farm buildings. Some damage to residence roofs.
St. Charles	19	5:45 a.m.	High wind	W	....	....	0	$5,000	Only minor damage, mostly to farm buildings near Augusta. No crop or livestock losses.
Washington	19	6:00 a.m.	Tornado	SW	¼	....	4	Heavy	Storm occurred in southern part of County. Twenty injured. Several homes destroyed. Hardest hit were Belgrade, Belleview and Concord Townships. Many chickens and several head of livestock killed. Electric and telephone lines suffered much damage.
Jefferson	19	6:00 a.m.	High wind	SW	....	....	0	$1,000	Damage reported in Crystal City, Festus and Herculaneum. Roofs and trees damaged principally. Gusty wind all day; estimated 80 miles per hour gusts about 10:30 a. m.
St, Francois	19	6:15 a.m.	Tornado	SW	¼	1	0	$200,000	Storm struck Settleton, (north part of Bonne Terre). 18 persons injured, 3 seriously. Path of greatest damage one mile long. 20 homes destroyed and 30 more damaged. Some parked automobiles smashed. Trees uprooted and telephone and telegraph poles broken. "Miracle no one was killed" (Mayor of Bonne Terre). More than 150 buildings including barns, garages, and outbuildings were damaged.
Franklin	19	6:50 a.m.	Tornado	SW	⅛	16	0	$250,000	From near Beaufort through Jeffriesburg to east of Union. Crop damage $5,300, livestock losses $7,000. Nearly everything in path damaged or destroyed. No doubt greatest catastrophe in Franklin County's history, according to Franklin County Tribune. Storm first struck 3 miles west of Sullivan, where damage was slight, turned north and wrecked home, barn and all outbuildings near Noser's Mill, then turned slightly east and damaged or destroyed a number of homes, barns and outbuildings, continuing northeastward; many other buildings destroyed. Utility lines taken down over quite an area. 18 persons injured.
St. Francois	19	8:00 a.m.	High wind	SW	½	....	0	$5,000	Severe damage to only small area at Farmington; minor damage such as uprooting or damage to some trees, most of damage to roofs and outbuildings. Some window panes broken. Electric and telephone wires downed by falling trees and limbs. One person injured near Farmington.
Jefferson	19	2:05 p.m.	Heavy hail	SW	1	1	0	$1,000	Storm occurred at Herculaneum. Most of damage to roofs. Stones ⅝ to one inch in diameter.
Carroll	25	9:30 p.m.	High wind	SW	About 1	....	0	$2,500	Occurred at Carrollton and vicinity. Little if any crop damage. Most damage neighboring farm areas and confined to barns and small buildings. Only minor damage in Carrollton. Trees, wires and poles damaged slightly.
St. Charles	26	1:45 p.m.	Small tornado	SW	300 feet	....	0	$65,000	Two persons slightly injured near St. Charles. Damage confined to Smartt Field, a deactivated Navy field. Only 4 persons at the Field and two were injured trying to get to a safe place from storm, one injured when ¾ ton pickup truck was tossed 75 feet against wrecked Administration Building—other suffered only slight finger cut. Storm moved into Illinois.
Warren	26	Between 1:00 and 2:00 p.m.	Moderate to heavy hail	SW	2	....	0	Considerable	Considerable damage to neon signs, awnings and some windows. No crop damage.
Taney	30	6:30 p.m.	Small tornado	SW	1¼	About 10	0	$16,300	Storm occurred at Ozark Beach. Two houses, 3 tourist cabins and 3 barns destroyed. Several other barns and outbuildings damaged. Minor damage to several other buildings. Crop losses estimated at $1,000; livestock (2 cows) $300.

NOTE.—Several of the Missouri tornadoes on the 19th went into Illinois where destruction was much greater and fatalities more numerous. Time used on this tabulation is Central Standard Time, unless otherwise indicated.

WBO, St. Louis, 7-23-48—1130.

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U. S. DEPARTMENT OF COMMERCE, WEATHER BUREAU

P 10 1948

CLIMATOLOGICAL DATA

THE UNIVERSITY OF ILLINOIS
SEP 8 1948

MISSOURI SECTION

H. F. WAHLGREN
ST. LOUIS, MO.

Vol. LII APRIL 1948 No. 4

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GENERAL SUMMARY

For the State, as a whole, this month was the driest April in the 61 years State-wide records have been kept in Missouri. It was also the fourth-warmest month of its name for that period of time, for the whole State. This combination of warm, dry weather was very favorable for all outdoor work and for preparing the ground for seeding of early spring crops, and this work, two to three weeks behind normal advancement at the beginning of the month, progressed rapidly as the month advanced and by the close was further along than usual at that time of year.

The warm weather was general over the whole State, all three Divisions having monthly averages well above normal, viz:—Northern, 58.2°, +5.1°; Southwestern, 61.9°, +5.7°; Southeastern, 61.6°, +4.5°; for the State, 60.6°, +5.2°. Each individual station in the State also had a monthly temperature average in excess of normal, some stations as much as 6° or 7° above normal. The 1st, 2d, 3d, 9th, and 14th were the coldest days of the month, while the 6th, 7th, 16th, 17th, 18th, 23d, 24th, 26th, and 27th were the warmest. Near freezing temperatures, or below, were confined to the first few days and again on the 14th, as a rule, with an average of only 2 days during the month with minimum temperature 32°, or lower, for the State as a whole. At a number of stations, mostly in the southern half of the State, no freezing temperatures were recorded during April. There was practically no frost damage during the month, as vegetation was not advanced enough, as a rule, to be damaged the first half of April and no frost occurred during the latter half. Daytime temperatures did not go higher than the high 80's or low 90's anywhere in the State, the absolute maximum being 91° at two southeastern stations on the 27th.

Precipitation during April was all in the form of rain, no measurable snowfall being recorded anywhere in the State. Only three stations, all in the Northern Division, reported a Trace of snowfall during April. The month's rainfall was irregularly distributed, ranging from a total of 4.85 inches at Doniphan to only 0.39 inch at Marshall. Average precipitation, with departures from normal, for each of the three divisions and for the State were as follows:—Northern, 1.69 inches, —1.79 inches; Southwestern, 1.29 inches, —2.91 inches; Southeastern, 2.44 inches, —1.99 inches; for the State, 1.81 inches, —2.23 inches. Although the monthly averages for the State and for the Southwestern Division were the least in the past 61 years, drier Aprils have occurred in both the Northern and Southeastern Divisions, namely in 1924 and 1888 in the former division and in 1930, 1924, 1915, 1906, 1895, 1891, 1889 and 1888 in the latter division. Despite the decidedly deficient rainfall during April the Mississippi River, in the reach bordering the State, was near, or above, flood stage during the first few days of the month at most places above Cairo, Ill., and throughout the entire month below that point.

Damaging storms during the month were of a local nature and not unusually severe anywhere. Hail was rather frequent and general on several dates, but, as a rule, was mostly light to moderate and resulting damage was mostly neglible. For details of damaging storms see accompanying storm data table, elsewhere in this issue.

(Continued on page 27)

PRESSURE, WIND, HUMIDITY, AND SUNSHINE

Stations	Sea-level pressure, extremes-inches				Wind				Relative humidity				Percentage of sunshine	Degree days
	Highest	Date	Lowest	Date	Average hourly velocity	Maximum velocity ¶	Direction of maximum	Date	12:30 a. m.	6:30 a. m.	12:30 p. m.	6:30 p. m.		
Columbia	30.50*	9	29.39*	11	9.2	24	sw.	19	67*	75*	48*	48*	74	180
K. C. Airport	30.50	9	29.30	11	13.0	37	sw.	18	61	68	43	41	59	149
St. Joseph Ap't	30.47	9	29.31	10	10.5	30	nw.	26	70	76	51	49	55	196
St. Louis	30.56*	9	29.45*	11	14.5	44	s.	19	69*	72	48	52*	72	204
Springfield	30.45	9	29.45	11	14.2	36	sw.	19	66	75	50	50	65	165
Cairo, Ill.	30.54	3	29.59	11	10.8	29	s.	11	..	78	53	..	79	123
.....	.....	..	.....	..	....	..	......	..	..	..	..	..	..	....

* Data for Airport station. ¶ For 5-minute period.

COMPARATIVE DATA FOR APRIL

Year	Temperature			Precipitation					Number of days			
	Average for State	Highest	Lowest	Average for State	Average, Northern Division	Average, Southwestern Division	Average, Southeastern Division	Snowfall, Average for State	Precip. .01 inch or more	Clear	Partly cloudy	Cloudy
1888	57.9	94	20	1.92	1.54	2.37	1.85	....	5	..	..	..
1889	55.7	90	27	2.66	2.84	3.31	1.83	....	8	..	..	..
1890	56.2	93	25	3.58	2.26	3.43	5.05	....	8	..	..	..
1891	56.8	93	15	3.46	3.88	4.08	2.41	T.	9	..	..	..
1892	53.1	90	24	5.83	5.14	5.35	7.01	0 0	11	9	8	13
1893	53.9	95	19	8.27	6.37	9.14	9.29	0.0	12	8	9	13
1894	56.1	95	20	3.11	2.24	3.52	3.58	T.	8	12	10	8
1895	57.9	100	24	2.04	1.87	2.08	2.17	T.	7	14	8	8
1896	61.9	92	17	3.57	3.10	4.35	3.25	0.0	9	11	12	7
1897	54.4	88	21	4.65	4.07	3.78	6.10	T.	10	10	11	9
1898	52.5	90	14	3.64	3.77	3.75	3.40	T.	10	12	9	9
1899	54.0	96	6	3.80	3.46	4.02	3.93	3.8	8	12	9	9
1900	56.7	89	21	3.50	3.05	3.66	3.78	0.7	9	11	10	9
1901	53.3	94	24	2.96	2.63	2.83	3.41	1.8	8	14	7	9
1902	53.9	95	19	2.82	1.98	3.30	3.18	T.	11	13	11	6
1903	55.9	91	26	3.37	3.97	3.34	2.79	1.2	9	11	10	9
1904	49.0	84	19	5.63	6.14	6.07	4.67	2.7	9	15	6	9
1905	54.9	92	20	3.09	3.66	2.28	3.34	0.3	6	14	8	8
1906	59.5	93	22	2.42	2.67	2.40	2.18	0.0	6	17	7	6
1907	48.7	89	16	3.33	2.62	3.83	3.55	T.	8	11	8	11
1908	56.6	90	18	5.89	2.55	6.58	8.53	T.	11	11	8	11
1909	54.8	93	19	4.72	4.36	3.60	6.21	T.	8	13	9	8
1910	54.8	97	21	3.58	2.74	3.55	4.45	0.9	11	12	7	11
1911	53.5	91	20	4.93	4.28	4.70	5.81	T.	10	12	8	10
1912	56.0	89	24	6.08	3.78	6.47	8.00	0.7	10	13	7	10
1913	56.2	94	25	3.32	3.36	3.10	3.50	T.	7	16	5	9
1914	55.2	91	18	3.14	2.57	3.11	3.75	T.	8	12	7	11
1915	61.9	96	18	2.12	1.93	2.64	1.79	T.	7	16	8	6
1916	53.5	93	21	3.32	2.77	3.93	3.27	1.9	10	11	8	11
1917	53.2	89	19	5.95	5.66	5.08	7.11	1.2	12	12	6	12
1918	50.8	93	19	5.33	3.61	5.26	7.11	0.9	11	12	6	12
1919	55.3	94	20	3.03	3.15	3.46	2.47	T.	9	12	7	11
1920	50.2	89	4	3.82	4.86	3.30	3.31	4.8	11	11	7	12
1921	56.0	91	19	5.36	4.70	5.22	6.16	1.1	10	13	7	10
1922	57.3	91	24	6.41	4.96	8.47	5.81	T.	11	13	6	11
1923	54.2	92	14	3.26	2.52	3.38	3.89	0.4	8	14	8	8
1924	56.6	95	11	2.15	1.26	2.78	2.40	T.	6	14	8	8
1925	61.0	92	24	4.12	4.12	4.73	3.52	0.0	10	12	9	9
1926	49.9	91	11	2.42	2.39	2.17	2.69	2.4	8	14	6	10
1927	57.7	94	18	8.68	6.73	8.61	10.70	T.	14	10	7	13
1928	51.6	88	16	4.86	2.76	5.46	6.37	0.2	8	13	7	10
1929	57.4	96	27	6.15	6.32	6.58	5.56	0.0	12	11	8	11
1930	59.1	96	23	2.02	1.89	2.77	1.39	0.0	8	14	8	8
1931	54.8	90	22	2.96	2.92	2.77	3.18	T.	9	14	6	10
1932	57.6	95	22	2.58	2.43	2.52	2.78	0.0	8	14	8	8
1933	54.9	88	22	3.84	2.08	3.82	5.62	0.7	10	11	9	10
1934	56.5	90	24	2.50	2.06	2.61	2.84	T.	7	16	8	6
1935	52.3	90	23	2.90	3.10	3.02	2.59	0.7	9	9	7	14
1936	53.0	95	9	2.45	2.00	1 93	3.41	0.5	8	16	7	7
1937	54.5	93	21	4.04	3.25	3.67	5.21	T.	10	10	8	12
1938	56.7	89	18	3.68	3.79	4.13	3.13	3.2	10	13	9	8
1939	53.4	88	16	5.01	4.35	4.32	6.36	0.1	10	11	8	11
1940	54.0	92	15	4.41	3.01	4.57	5.64	0.3	11	11	8	11
1941	59.2	90	29	4.49	3.47	6.20	3.81	0.0	10	11	9	10
1942	59.1	94	20	3.83	3.07	4.56	3.87	0.0	9	14	8	8
1943	56.0	91	18	2.91	2.28	3.15	3.30	T.	9	13	10	7
1944	52.2	89	16	6.68	7.69	5.78	6.57	0 0	13	8	9	13
1945	55.9	86	20	7.75	5.73	9.00	8.52	T	14	9	8	13
1946	59.6	94	25	3.37	2.28	3.95	3.87	0.0	8	13	8	9
1947	55.2	90	22	6.78	6.42	7.27	6.64	0.0	13	9	8	13
1948	60.6	91	22	1.81	1.69	1.29	2.44	0.0	7	13	9	8
Period	55.4	100	4	4.04	3.48	4.20	4.43	0.5	9	12	8	10

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Climatological Data for April 1948

Stations	Counties	Elevation, feet	Temperature, in degrees Fahr.							Precipitation, in inches						Number of days				Prevailing direction of wind	Observers
			Length of record, years	Mean	Departure from the normal	Highest	Date	Lowest	Date	Length of record, years	Total	Departure from the normal	Greatest in 24 hours [4]	Date	Total snowfall, unmelted	With precip. .01 inch or more	Clear	Partly cloudy	Cloudy		
Northern Division																					
Albany	Gentry	930	7	58.2	......	88	18	26	1	19	2.97	+0.18	0.92	6-7	0	8	12	8	10	s.	William J. Butler
Amity	DeKalb	1,007	2	58.7	......	87	18	25	1	13	1.76	−2.34	0.67	26	0	7	10	9	11	se.	O. M. Colhour
Bethany	Harrison	916	53	57.1	+ 5.6	86	18	23	1	55	3.01	−0.28	1.06	6	0	8	16	4	10	se.	B. A. McGregor
Brookfield	Linn	767	7	58.6	......	87	18	29	1	7	0.84	......	0.23	25	0	5	13	8	9	n.	G. F. Breen
Brunswick	Chariton	652	67	58.0	+ 3.8	87	18	31	1†	69	1.40	−2.43	0.43	26	0	6	13	5	12	se.	O. K. Benecke
Canton, Lock & Dam 20	Lewis	488	10	58.4	+ 5.5	87	24	28	9	18	2.44	−0.32	1.30	6-7	0	6	11	14	5	se.	Lockmaster
Carrollton	Carroll	754	2	59.9	......	88	18	29	1†	2	0.65	......	0.24	24-25	0	8	15	9	6	s.	Harold E. Finley
Chillicothe 2 mi ESE(C)	Livingston	771	39	57.8	+ 5.8	87	18	28	1	42	0.78	−2.44	0.23	26	0	5	5	12	13	nw.	Civil Aeronautics Adm.
Columbia	Boone	740	58	61.0	+ 6.2	87	18	32	1	58	0.82	−2.95	0.55	12-13	0	6	12	10	8	s.	U. S. Weather Bureau
Conception	Nodaway	1,108	59	58.6	+ 6.4	88	18	26	1	64	2.82	+0.09	0.79	24-25	0	7	7	14	9	se.	Fr. Adelhelm Hess
Edgerton	Platte	856	28	57.6§	+ 3.8	87	19	24	1	45	1.69	−1.39	0.80	24-25	T.	5	6	15	9	sw.	Leroy H. Mindrup
Elsberry	Lincoln	449	17	57.6[d]	+ 4.0	89[d]	7†	29[d]	3	17	0.82	−2.23	0.45	12-13	0	4	10[d]	7[d]	9[d]	sw.	Soil Conservation Service
Fayette	Howard	760	68	60.0	+ 5.8	86	18	29	1	65	0.80	−2.75	0.43	27	0	4	16	8	6	n.	Irvin E. Schnell
Fulton	Callaway	818	60	59.7	+ 5.1	88	18	30	9	56	0.85	−3.16	0.29	12	0	6	24	2	4	sw.	Frank E. Hillgartner
Grant City	Worth	1,134	44	56.8§	+ 4.6	86	18	23	1	56	3.89	+0.93	1.96	22	0	7	10	7	13	e.	J. Homer Korn
Hannibal	Marion	759	56	57.8	+ 4.4	87	18	29	1	64	2.28	−0.91	1.46	6-7	0	9	13	9	8	s.	Hannibal Water Dept.
Kansas City Airport	Jackson	741	59	61.8	+ 7.0	87	18	31	1	59	0.80	−2.72	0.62	24-25	0	5	5	12	13	s.	U. S. Weather Bureau
Kidder	Caldwell	1,020	56	57.7	+ 5.5	86	18	24	1	60	0.87	−2.41	0.31	25	0	7	17	2	11	sw.	Mrs. Geraldine Terry
Kirksville	Adair	969	59	57.0	+ 5.1	84	18	26	1	66	2 43	−1.67	0.96	6-7	T.	7	17	5	8	se.	Dow Jones
Kirksville Airport	Adair	970	9	55.9	......	84	18	26	1	9	2.00	......	0.88	6-7	0	8	5	12	13	s.	Civil Aeronautics Adm.
Lathrop	Clinton	1,071	1	58.6[c]	......	86[c]	18	25[c]	1	1	1.60	......	0.86	26	0	5	14[c]	11[c]	2[c]	s.	E. L. Fisher
Louisiana	Pike	469	54	59.6	+ 5.6	87	18†	31	3†	67	1.25	−2.47	0.45	12-13	0	9	14	7	9	s.	Stark Bro's Nurseries
Macon	Macon	875	49	56.3	+ 3.2	86	18	26	1	55	1.96	−1.70	0.76	26	0	6	9	9	12	se.	John W. Atwell
Maryville	Nodaway	1,169	58	56.8	+ 6.0	88	18	22	1	54	3.55	+0.54	1.84	22	0	8	14	7	9	se.	R. B. Montomery
Memphis	Scotland	787	9	54.2§	+ 3.0	86	18	27	1	18	1.89	−1.31	0.48	26-27	0	7	12	11	7	sw.	John W. Alexander
Mexico	Audrain	800	59	59.0	+ 5.2	88	18	29	1	70	1.44	−2.31	0.40	11	0	8	16	8	6	sw.	D. N. Woods
Moberly .....3½ mi. NE	Randolph	860	11	58.4§	+ 4.7	86	18	28	1	11	1.60	−2.43	1.15	6-7	0	3	15	9	6	n.	Robert J. Platter
New Florence. 1 mi SE	Montgomery	885	5	57.9	......	85	7†	32	9	6	1.04	......	0.58	25	0	5	11	6	13	s.	U. S. Weather Bureau
Oregon	Holt	1,093	92	58.4	+ 5.7	88	18	26	1	92	3.92	+0.63	1.41	24-25	0	7	17	5	8	ne.	James M. Curry
Polo	Caldwell	1,000	2	57 2	......	85	18	27	1	2	1.28	......	0.79	26	0	5	10	16	4	s.	F. B. Albright
St. Charles	St. Charles	520	60	61.6	+ 6.0	90	7	36	9	70	1.60	−2.15	1.03	12-13	0	7	15	10	5	n.	Mrs. Myrtle Bregel
St. Joseph Airport	Buchanan	957	38	59.8	+ 6.3	88	18	32	2	76	1.63	−1.56	1.01	24-25	0	7	7	10	13	s.	U. S Weather Bureau
Salisbury	Chariton	723	2	59.6	......	86	18	29	1	2	1.04	......	0.38	11	0	8	13	12	5	s.	David H. Robertson
Saverton, Lock No. 22.	Ralls	472	10	59.0	+ 4.2	89	19	31	1	10	2.03	−2.66	0.78	6-7	0	8	17	8	5	se.	Lockmaster
Shelbina	Shelby	779	7	58.0	......	84	23†	28	1	55	1.44	−2.31	0.36	11	T.	8	16	9	5	nw.	Guyman Hatcher
Steffenville	Lewis	650	50	57.7	+ 4.6	85	18	29	1†	55	2.46	−1.12	1.25	7	0	9	18	6	6	s.	Mrs. Fannie V. Gross
Tarkio	Atchison	916	45	56.8	+ 4.6	90	18	24	1	54	2.80	−0.44	1.29	24	0	7	8	12	10	s.	Civil Aeronautics Adm.
Trenton	Grundy	822	52	59.4	+ 6.7	87	18	28	1	53	0.90	−2.68	0.28	24-25	0	8	8	19	3	n.	W. H. Estes
Unionville	Putnam	1,062	55	54.2	+ 3.2	85	18	25	1†	55	2.71	−0.99	0.65	11†	0	8	12	6	12	s.	George D. Choate
Vandalia	Audrain	766	4	58.4	......	87	18	33	14	9	1.22	......	0.52	12-13	0	5	15	13	2	s.	Mrs. Naomi K. Stoutz
Warrenton	Warren	880	66	60.0	+ 5.2	87	7†	29	9	58	1.77	−2.27	0.71	25	0	8	13	15	2	s	W. T. Zimmerman
Keokuk, Iowa	Lee, Ia	574	76	57.2	+ 4.9	86	18	33	2	76	2.11	−0.88	0.63	6-7	0	8	13	10	7	nw.	U. S. Weather Bureau
Division means	**and extremes**	.....	..	**58.2**	**+ 5.1**	**90**	**7†**	**22**	**1**	..	**1.69**	**−1.79**	**1.96**	**22**	**0**	**7**	**13**	**9**	**8**	**s.**	
Southwestern Division																					
Anderson ...1½ mi SW	McDonald	1,000	44	61.6	+ 4.9	87	6†	26	14†	49	2.13	−2.56	0.92	1	0	6	18	5	7	s.	Samuel G. Chamberlain
Appleton City	St. Clair	800	53	62.0	+ 5.9	86	18	29	14	56	1.06	−3.07	0.49	24-25	0	7	17	9	4	sw.	F. Paul Eye
Bolivar	Polk	1,071	45	62.6	+ 6.3	85	18	34	14	53	1.22	−2.95	0.48	12	0	5	15	9	6	sw.	Southwest Baptist College
Boonville	Cooper	650	10	58.5	+ 4 6	87	18	30	1	71	0.45	−3.42	0.24	12-13	0	6	18	9	3	s.	Boonville Water Dept.
Butler	Bates	865	2	62.0	......	86	18	29	14	7	1.62	......	1.28	25	0	8	6	14	10	e.	Harley W. Johnson
Camdenton	Pulaski	940	2	64.8	......	88	7†	35	1	2	1.05	......	0.60	11	0	3	14	13	3	sw.	Mo. Conservation Com.
Carthage	Jasper	962	14	64.3	......	88	17	27	14	24	1.69	......	0.53	20-21	0	6	12	14	4	s.	Carthage W. and E. Plant
Clinton	Henry	786	55	61.7	+ 5.4	89	18	32	14	61	0.95	−3.22	0.78	25	0	3	10	13	7	s.	U. S. Weather Bureau
Eldon	Miller	934	53	61.9	+ 6.5	86	7†	33	1	49	1.05	−3.11	0.77	12-13	0	6	10	17	3	sw.	Arthur Rothwell
Harrisonville	Cass	904	70	60.0	+ 6.1	86	7†	30	1	73	1.08	−2.30	0.83	25	0	5	10	6	14	se.	Jeffrey B. Patterson
Jefferson City	Cole	557	58	60.7	+ 4.7	87	18†	31	2	66	1.11	−2.87	0.68	6	0	6	15	5	10	sw.	K W. O. S. Radio Farm
Joplin Airport	Jasper	988	26	63.2	+ 4.7	87	17	30	14	43	2.13	−2.57	0.85	20-21	0	7	7	7	16	s.	Civil Aeronautics Adm.
Kansas City Univ.	Jackson	908	10	63.4	+ 6.8	88	18	31	1†	10	0.93	−4.36	0.71	24-25	0	6	16	8	6	s.	University of Kansas City
Lakeside	Miller	595	17	61.0	+ 5.6	89	18	30	2	17	0.82	−2.16	0.60	11-12	0	5	..	..	..	s.	W. S. Frame
Lamar	Barton	980	60	60.4	+ 3.8	87	6	28	14†	67	1.20	−3.32	0.43	12	0	5	17	6	7	sw.	Mrs. Marie Mann
Lebanon	Laclede	1,265	60	59.9	+ 4.4	85	18	34	1	61	1.06	−3.29	0.70	12	0	5	12	9	9	se.	Mrs. Rosa E. Montelius
Lexington	Lafayette	688	68	59.9	+ 5.3	88	18	31	1	64	0.82	−2.98	0.49	24-25	0	5	10	15	5	s.	William H. Cullon
Lockwood	Dade	1,078	42	62.8	+ 6.3	87	6	31	14	52	1.57	−2.96	0.62	20-21	0	5	15	11	4	se.	Hubert A. Nieman
Marshall	Saline	779	61	60.4	+ 5.6	87	18	30	1	58	0 39	−3.50	0.14	25	0	7	16	9	5	s.	Thomas A. Reid
Marshfield	Webster	1,484	3	61.8	......	85	18†	32	2	7	1.78	......	0.93	30	0	10	11	11	8	sw.	Sho-Me Power Co.
Monett	Barry	1,317	1	61.6	......	84	6	33	14	1	1.33	......	0.51	20-21	0	7	19	5	6	s.	Mo. Univ. Fruit Exp. Sta.
Mountain Grove	Wright	1,463	47	61.7	+ 6.8	85	19	34	1	51	0.83	−3.69	0.29	11-12	0	6	13	12	5	se.	Mo. Fruit Exp. Station
Mount Vernon	Lawrence	1,174	36	....	......	..	..	..	..	48	....	......	....	..	....	..	..	..	..	......	John C. Heying
Neosho	Newton	1,011	61	64.5	+ 6.2	87	17	27	14	65	1.59	−2.97	0.58	9-10	0	9	15	9	6	s.	U. S. Fisheries Station
Nevada	Vernon	862	55	63.7	+ 8.0	89	6	29	14	56	2.23	−2.06	0.71	24-25	0	7	13	5	12	sw.	Henry Kraft
Ozark Beach	Taney	700	8	63.4	......	89	16†	32	2	23	1.11	−3.36	0.36	25	0	7	17	6	7	s.	Empire District Elec. Co.
Sedalia	Pettis	910	35	61.4	+ 6.1	87	18	30	1	37	0.58	−3.15	0.25	25	0	4	16	6	8	nw.	Dr. J. E. Cannaday
Seligman	Barry	1,542	47	63.4	+ 6.8	84	6	27	1†	45	1.89	−2.17	1.05	12	0	3	14	11	5	s.	Floyd E. Fawver
Seymour ....4 miles NE	Webster	1,642	42	58.6	+ 2.9	83	18	29	3	42	1.33	−2.99	0.40	25-26	0	6	15	7	8	sw.	Ira H. Hailey
Springfield... 4 mi. NW	Greene	1,265	60	60.7	+ 5.5	85	18	33	14	60	1.22	−2.64	0.34	20-21	0	8	8	9	13	s.	U. S. Weather Bureau
Sweet Springs	Saline	700	7	60.7	......	87	18	29	14	7	0.64	......	0.34	25	0	6	12	15	3	s.	H. F. Nelson
Warrensburg	Johnson	878	61	62.2	+ 6.1	87	18	31	1	68	0.44	−3.22	0.38	25	0	3	16	10	4	se.	Central Teachers College
Warsaw	Benton	687	47	63.0	+ 6.3	87	18	31	1†	53	1.01	−3.45	0.56	12	0	6	9	11	10	se.	Dora B. Johnson
Wasola	Ozark	1,294	7	64.4	......	87	18†	37	2	8	1.71	......	0.61	20-21	0	6	14	8	8	s.	A. W. Pinckney
Waynesville...1½ mi. E	Pulaski	805	2	....	......	..	..	..	..	2	....	......	....	..	....	..	..	..	..	......	Fred M. Sanderson
Division means	**and extremes**	.....	..	**61.9**	**+ 5.7**	**89**	**6†**	**26**	**14†**	..	**1 29**	**−2.91**	**1.28**	**25**	**0**	**6**	**13**	**10**	**7**	**s.**	
Southeastern Division																					
Advance.... ¼ mile W	Stoddard	354	11	60 8	+ 3.3	86	25†	32	2	11	3.13	−2.04	1.62	11-12	0	8	8	12	10	s.	U. S. Weather Bureau
Arcadia	Iron	926	67	60.2	+ 4 9	87	16†	28	2	70	1.78	−3.04	1.00	12-13	0	3	9	3	18	e.	Arcadia College
Birch Tree... ½ mile E	Shannon	1,000	53	61.8[h]	+ 4.7	85[h]	27	28[h]	2	54	3.69	−1.07	1.52	12	0	5	10[h]	13[b]	5[b]	s.	Mrs. Mildred E. Catlett
Black.......9 miles NW	Iron	1,000	55	....	......	..	..	..	..	55	....	......	....	..	....	..	..	..	..	......	J. Cornell Shy
Campbell	Dunklin	314	22	....	......	..	..	..	..	22	....	......	....	..	....	..	..	..	..	......	Mrs. Ruth Christian
Cape Girardeau	Cape Girardeau	347	3	62.6	......	85	24	36	2	48	3.54	−0.34	1.70	13	0	5	10	15	5	s.	State Teachers College
Caruthersville	Pemiscot	265	52	65.8	+ 5.6	85	23†	39	2	56	2.35	−2.17	1.20	12-13	0	6	18	8	4	s.	Victor T. Malloure
Clearwater Dam	Wayne	648	2	63.1	......	88	19	28	2	2	3.30	......	1.50	11-12	0	6	12	10	8	s.	U. S. Engineer Office
Crystal City	Jefferson	420	14	62.2	+ 7.2	88	7†	32	3	14	1.07	−2.57	0.47	11-12	0	6	13	2	15	se.	Richard K. Ragland
Doniphan	Ripley	344	44	64.0	+ 5.5	91	27	28	2	44	4.85	−0.08	1.92	11-12	0	6	20	3	7	sw.	Boyce Lackey
Farmington	St. Francois	896	37	60.0	+ 3.1	85	19	30	2	51	1.68	−2.84	0.88	12-13	0	7	11	7	12	s.	F. M. Karsch
Greenville ...1 mile SW	Wayne	415	39	62.6	+ 6.0	90	26	27	2	41	2.25	−2.45	0.90	11-12	0	9	5	18	7	s.	C. L. Rubottom
Jackson	Cape Girardeau	428	57	62.4	+ 5.3	87	27	30	2	58	4.07	−0.27	2.25	11-12	0	5	11	12	7	s.	Danny Siebert
Koshkonong	Oregon	958	47	65.1[a]	+ 6.6	88	16	..	..	48	3.21	−1.81	0.94	11-12	0	7	17	4	9	s.	Mrs. Genevieve T. Smith

Continued on next page

Climatological Data for April 1948—Continued from preceding page

Stations	Counties	Elevation, feet	Temperature, in degrees, Fahr.							Precipitation, in inches						Number of days				Prevailing direction of wind	Observers
			Length of record, years	Mean	Departure from the normal	Highest	Date	Lowest	Date	Length of record, years	Total	Departure from the normal	Greatest in 24 hours[4]	Date	Total snowfall, unmelted	With precip., .01 inch or more	Clear	Partly cloudy	Cloudy		
Southeastern Division—	*Concluded*																				
Licking...... 4 miles N	Texas	1,170	11	59.2	+ 2.5	84	18†	33	2	11	1.06	−3 62	0.60	11-12	0	4	16^{a}	4^{a}	9^{a}	s.	Fern E. Austin
Marble Hill	Bollinger	532	53	59.3	+ 2.1	88	27	26	2	55	3.47	−1.02	2.20	12	0	6	19	8	3	s.	R. A. DeWitt
Poplar Bluff	Butler	339	43	64.0	+ 4.5	91	27	32	2†	44	4.31	−0.20	1.89	11-12	0	6	19	5	6	s.	Osmon M. Richardson
Rolla	Phelps	1,202	48	59.5	+ 3.6	88	7	34	1	64	1.28	−2.94	0.60	11-12	0	5	18	11	6	e.	Rolla School of Mines
St. Louis:																					
City Office		465	111	60.1	+ 4.0	88	7	38	1	111	2.21	−1.60	1.09	11-12	0	9	10	9	11	s.	**Section Center**
St. Louis Airport	St. Louis	556	11	59.8	+ 5.0	88	19	38	3	17	1.32	−2.30	0.68	11-12	0	10	6	7	17	se.	U. S. Weather Bureau
St. Louis University	St. Louis City	578	36	60.2	+ 4.5	87	19	38	1	36	1.89	−1 97	0.56	11-12	0	10	22	5	3	se.	St. Louis University
Salem	Dent	1,206	44	59.8	+ 3.8	85	19	33	9	47	2.14	−2.36	0.76	25-26	0	5	13	14	3	s.	E. E. Martin
Sikeston	Scott	318	41	62.8	+ 4.7	88	27	36	2	51	2.26	−2.36	1.38	12-13	0	7	14	14	2	sw.	Mrs. Lucy W. Humphreys
Union ....1½ mi. SE	Franklin	520	10	60.0	+ 3.1	89	19	31	2†	31	2 13	−2.23	0.48	11-12	0	9	12	5	13	s.	Cornelius Sieges
Vichy ....2 mi. NW	Maries	1,125	12	60.0	......	87	19	34	1	13	1.54	......	0.97	11-12	0	7	8	9	13	s.	Civil Aeronautics Adm.
Wappapello Dam	Butler	475	9	62.9	+ 3.6	87	16†	35	2	9	4.01	−1.47	2.00	11-12	0	7	14	10	6	nw.	U. S. Engineer Office
Webster Groves	St. Louis	507	2	60.2	......	89	7	33	2†	3	1.95	......	1.17	11-12	0	10	13	13	4	se.	R. W. Lawrie
Weingarten	St. Genevieve	833	7	60.0	......	83	7†	35	2†	8	1.71	......	1.22	11	0	3	11	15	4	s.	William J. Miller
West Plains	Howell	1,005	11	60.9	+ 3.9	86	16†	30	2	11	2.22	−3.43	0.64	23	0	8	7	11	12	s.	U. S. Weather Bureau
Willow Springs 500 ft E	Howell	1,238	7	62.0	......	87	19	29	2	41	1.36	−3.48	0.35	23	0	6	13	9	8	s.	Allen Frazee
Cairo, Ill.	Alexander, Ill.	314	76	64.0	+ 4.9	86	27	40	2	77	2.19	−1.53	1.59	12-13	0	7	8	12	10	s.	U. S. Weather Bureau
Division means	**and extremes**	.....	..	61.6	+ 4.5	91	27	26	2	..	2.44	−1.99	2.46	12-13	0	7	13	9	8	s.	
State means	**and extremes**	.....	..	60.6	+ 5.2	91	27	22	1	..	1.81	−2.23	2.46	12-13	0	7	13	9	8	s.	

The departures from normal temperature are computed from the averages of the entire period for stations having 10 or more years of record. Departures of precipitation for stations with 15 years or more of record are computed from a normal or "standard mean", adjusted to a uniform 35-year period; for stations of 10 to 14 years the means for the period of record are used. The normal may be found by adding the departures when minus (−) or subtracting when plus (+). Figures and letters following stations indicate distance in miles and direction of station from the city Post Office, unless otherwise indicated. T. Trace or 0.005 inch or less. ^{a}, ^{b}, ^{c}, etc., number of days missing; for example, ^{b}, indicates two days missing. Italics data interpolated. § Partly interpolated. † And other dates. ‡ Received too late to be included in means and summaries. [4] Best available used for stations not equipped with recorders. Post office address of: Altona is Adrian; Clearwater Dam is Piedmont; Crane Mountain is Arcadia; East End is Goodland; Hailey is Cassville; High Lookout is Birch Tree; Macedonia Lookout is Doniphan; Oates Tower is Centerville; Perry is Center; Pineview Lookout is Cape Fair; Sugar Camp Lookout is Seligman; Topaz is Cabool; Wilderness Lookout is Lampe. (C) Airport. ¶ Indicates plus.

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The warmer and drier weather, that was so urgently needed at the close of March, materialized early in April and prevailed, generally, throughout the remainder of the month. Field work and the planting of early spring crops that had been delayed as much as two to three weeks by wet, cold weather during March, progressed rapidly under the more favorable conditions during April and this work was further advanced than normal at the close of the month. Fall-sown small grains made good growth and were in excellent condition at the close of the month, but were needing rain. Oat seeding was mostly completed by the third week of April, but dry weather the latter half of the month delayed germination and growth. Most of the oat crop was sown considerably later than usual this year. Pastures and meadoes were slow in getting started and were short and in need of general soaking rain at the end of the month. First cuttings of alfalfa were being made the last few days of the month. About one-third of the corn crop was planted by the close of April, while most of the cotton crop had been planted, in the cotton growing counties of the State, by that time. Fruit trees bloomed heavily during the month and prospects were favorable for a good crop of all fruits, although not as large a crop as last year was expected. Some damage was done to peaches by the extremely low temperatures in mid-March. Early gardens and truck crops were planted early in the month and made good progress, but were needing a general soaking rain, as were all other crops and grasses, at the close of the month.—M. R. W.

TEMPERATURE

The monthly mean for the State, 104 stations reporting, was 60.6°, or 5.2° warmer than the 61-year April average. The highest monthly mean was 65.8° at Caruthersville, and the lowest was 54.2° at Memphis and Unionville. The highest reported was 91° at Doniphan and Poplar Bluff on the 27th, and the lowest was 22° at Maryville on the 1st.

PRECIPITATION

The average for the State, 212 stations reporting, was 1.81 inches, or 2.23 inches less than the 61-year April average. The greatest monthly amount was 4.85 inches at Doniphan No. 1, and the least was 0.39 inch at Marshall. The greatest amount reported in 24 hours was 2.46 inches at Deering on the 12-13th. The average number of days with 0.01 inch, or more, was 6.

There was no snowfall, except a trace at a few scattered stations in the Northern Division.

MISCELLANEOUS PHENOMENA

Floods.—In Mississippi River, in the reach from Keokuk, Iowa to Cairo, Ill., continued from March to various dates the first half of April; in the reach below Cairo, continued from March, throughout April and into May. In St. Francis River, at Fisk, April 1st to 7th and 15th to 17th.

Fogs.—Heavy, 4th, 6th, 10th, 13th, 14th, 15th, 26th, 27th.

Frosts.—Light, 1st, 2d, 3d, 9th, 10th, 13th, 14th, 15th; heavy, 2d, 9th, 14th; killing, 1st, 2d, 3d, 9th, 14th.

Hail.—Light, 1st at Lexington; 4th near Maryville; 5th New Florence, Centerville No. 2, Cuba, Moselle, Roby, St. Louis, near Sullivan; 6th Amity, near Browning, Brunswick, Carrollton, Hannibal, Kirksville, Linneus, Saverton, Trenton, Lexington, Marshall, St. Louis Airport; 7th Albany, Bethany, Saverton, Crocker, Jackson, St. Louis, St. Louis University, Sikeston; 9th Neosho; 10th Springfield, High Lookout, Roby; 11th Unionville; 12th Columbia, Kansas City Airport, Martinsburg, New Florence, Kansas City University, Lexington, Springfield, Warrensburg, Macedonia Lookout, Moselle, St. Louis, St. Louis Airport, St. Louis University, Webster Groves; 17th Oregon; 21st Sprinfield; 22d near Browning, Shelbina; 26th Bethany, Brunswick, Kirksville, Lathrop, Macon, Oregon, Polo, St. Joseph Airport; 30th Marshfield. Moderate, 4th Tarkio; 5th Edgerton, Martinsburg, Warrenton, Wellsville, near Montgomery City, near Mexico; 6th Chillicothe Airport, Kirksville Airport, Moberly, Higbee, Oregon; 7th Cape Girardeau; 26th Amity, Edgerton. Heavy, 6th LaBelle, Lewistown with slight damage, Jefferson City; 9th Granby and scattered areas of Newton County. (See special storm table).

Sleet.—12th.

Tornado.—6th. (See special storm table).

Windstorm.—6th. (See special storm table).

Daily Precipitation for April 1948

Stations	Drainage-basins	Day of month																															Total
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	..	
Northern Division																																	
Albany	Grand							.92				T.	.10										.58	.03		.58	.30	.28			.18		2.97
Amity	do							.02			T.		.09	T.				T.	T.	T.			.09	.06		.64	T.	.67			.19		1.76
Auxvasse	Missouri					T.		T.				.18	.53	.02									.09			.10	.05	.13					1.10
Bethany	Grand							1.06				.14	.14										.50	.06		.48		.47			.16		3.01
Bowling Green[2]	Mississippi													.58													.58	.19					1.35
Brookfield[2]	Grand							.22				.07											.14			T.	.23	.18					0.84
Browning .....3 mi. NE	do		.01				T.	.30			T.	.12	.17	T.				T.	T.	T.			.25	T.		.24		.32			.05		1.46
Brunswick[2]	do							.22				.24	T.	.23										T.		.06	.22	.43					1.40
Canton, Lock No. 20[2]	Mississippi							1.30			T.	.19		.17	T.	T.								.26			.82	.20			T.		2.44
Carrollton	Missouri		.01					.05				.09	.16	.03												.24		.04			.03		0.65
Centralia[2]	Mississippi	.02											.09	.32													.06	.33					0.82
Chillicothe[2] ......(B)	Grand							.12			T.			.15									T.			.16	T.	.24					0.67
Chillicothe[3] 2 mi ESE (C)	do						.13			T.		T.	.12	T.					T.				T.			.14	.23				.16		0.78
Columbia[1], [5]	Missouri	T.					.02				T.	.10	.53	.02	T.								T.	T.		.14	.01				T.		0.82
Columbia[5] ..9 mi. WNW	do						T.	T.				.08	.36	T.									T.			.10	.06	.03			T.		0.63
Conception	do							.16					.31	T.						T.			.76	.57		.79		.14			.09		2.82
Edgerton[2]	do	T.												.07				T.					T.		.10	.80	T.	.68			.04		1.69
Edina[2]	Mississippi							1.44				.10		.32	T.									.30			.10	.40			T.		2.66
Elsberry S. C. S.[2]	do						.21					.02	.14	.45	T.											T.					T.		0.82
Fayette	Missouri						T.				T.	T.	.25	T.												.09	.03	.43			T.		0.80
Fulton[2]	do							.10				.10	.29	.13										.03			.20				T.		0.85
Gallatin[2]	Grand							T.						.14									.14		.08	.30	T.	.33					0.99
Grant City	do							.46				T.	.34										1.18	.78		.65		.17			.31		3.89
Hannibal[1] ....(A)	Mississippi						.78	.68				.05	.35	.05									.08			.18	.04				.07		2.28
Hannibal[3] ....(B)	do	T.					T.	1.16				.18		.50	T.									.13			T.						1.96
Kahoka[2]	do		.06					.29				.18		.33	T.									.24			.28	.71			.02		2.11
Kansas City Airport[1], [5]	Missouri									T.		T.	.06	T.					T.				T.	T.	.46	.17	.05			T.	.06		0.80
Kidder[2]	Grand													.09									.03		.14	.31	.06	.14			.10		0.87
King City	Missouri							.60					.10						T.				.43	.17		.65		.16			.17		2.28
Kirksville	Mississippi							.96				.15	.28										.35			.05		.60			.04		2.43
Kirksville Airport[3], [5]	do						.82	.06		T.	T.	.04	.21	T.					T.				.55			.05	.26				.01		2.00
LaBelle[2]	do	T.						1.41						.49	T.									.17			.09	.52			T		2.68
Lathrop	Grand												.10										.10	.01		.53		.86					1.60
Linneus	do							.05				T.	*	.08												.19		.68			.05		1.05
Louisiana ....(A)	Mississippi					.05		.03				.10	.35	.10									.04		.05		.35	.18					1.25
Louisiana[2] ....(B)	do	T.					.02	.02			T.	.02	.05	.80	.02									.06	.26		.33	.18			T.		1.26
Lucerne[2]	Grand							.52			T.	.23	.05	.21									.30	.06	.25	.03	.12	.19			.06		2.02
Macon[2]	Chariton							.40				.30		.10										.20			.20	.76					1.96
Madison[2]	Mississippi							.45					*	.28													.12		.30				1.15
Martinsburg[2]	Missouri	T.					.18					.12	.01	.52	T.						T.			.21	.01		.31	.19					1.55
Maryville	do					.02		T.					.15						T.	.02			1.68	.18		1.33	.10				.07		3.55
Memphis[2]	Mississippi							.47				.40	*	.20	T.									.23			.11	.48					1.89
Mexico[2]	do	.02					.02					.40	*	.47	.04												.20	.29					1.44
Milan[2]	Grand							.65				.19		.12									.26				.03	.63					1.88
Moberly[2] ....3½ mi. NE	Mississippi							1.15				.25		.20										T.	T.	T.	T.						1.60
Monroe City	do							1.61				.22	.23	.04									.06			T.	.22	.12					2.50
New Florence[3], [5] 1 mi SE	Missouri					.04					.08	.07	.27	T.							T.		T.	T.		.58	T.	T.			T.		1.04
Oregon[1]	do				T.		.77						.03					T					1.31	T.	1.11	.30	22			T.	.18		3.92
Palmyra[2]	Mississippi							.69				.13		.30										.05			.30	.08			T.		1.55
Paris[2]	do	T.						.46						.20										.05			.06	.18					0.95
Perry ....1 mile E	do							.05					.50	.03													.10	.05					0.73
Philadelphia	do							.70				.18	.20	.05									.16			T.	.25	.18					1.72
Polo[2]	Missouri													.11												.31	.06	.79			.01		1.28
St. Charles[2]	do	T.					.02	.15			.01		.24	1.03	T.							T.			.04		.11						1.60
St. Joseph Airport[1], [5]	do					T.	.03						T.	T.					T.	T.			.23	.01	.69	.32	.20			T.	.15		1.63
Salisbury	Chariton							.10				.38	.09	.05									.01			.21	.02	.18			T.		1.04
Saverton, Lock No. 22[2]	Mississippi	.02					T.	.78				.07		.37										.15	.04		.42	.18			T.		2.03
Shelbina	do							.30				.36	.15	.03									.24			.04	.04	.28			T.		1.44
Shelbyville	do							.38				.32	.12									.14						.28					1.24
Steffenville	do							1.25				.81	.13	.01									.23			.18	.08	.24			.03		2.46
Tarkio[3]	Missouri				.50		.15						.09						T.	T.			.57	.16	1.29	T.	T.			T.	.04		2.80
Trenton[2]	Grand	T.						.15						.14									.17	T.	.16	.12	.02	.12			.02		0.90
Troy[2]	Mississippi	.01					.22						.07	.95	T.										.15		.30	.02					1.72
Unionville[2]	Chariton							.44				.65		.26									.65		.03	.02	.22	.44					2.71
Vandalia	Mississippi					T.						.15	.46	.06									T.			T.	.33	.22			T.		1.22
Warrenton	do	T.				.12	T.				.05	.03	.54	.16							.02				.14		.71						1.77
Keokuk, Iowa[1]	do						.19	.44			T.	.23	.34	T.		T.							.20			.31	.38	.02			T.		2.11
Southwestern Division																																	
Altona[2]	Osage													.03												.87	.06				.13		1.09
Anderson[2] ...1½ mi. SW	Neosho	.92									.04	.70										.14				.03	.30						2.13
Appleton City	Osage										.02		.20	.08						T.	.10					.49	.05				.12		1.06
Ava Ranger Station[2]	White																																
Bolivar	Osage										.02		.48								.19					.33					.20		1.22
Boonville[2] ....(A)	Missouri	.02						.05				.04	.17	.07													.10						0.45
Boonville[2] ....(B)	do	.02						.02				.03	T.	.28													.08	T.					0.43
Bradleyville[2]	White			.20																		.41	.02		.21		.40						1.24
Buffalo[2]	Osage	T.											.53	T.	T.							.15				.33					T.		1.01
Butler	do	T.									.08		.02	.01						T.	.03		.01			1.28	.02				.17		1.62
Camdenton	do											.60														.21					.24		1.05
Caplinger Mills[2]	do							.03				.05	.34	T.							.02	T.				.05	.22				.04		0.75
Carthage	Neosho										.47	.05	.25									.53				.32					.07		1.69
Cassville[2]	White	T.									.14	.12	.02	.32								.07			.03		.18				T.		0.88
Chadwick[2]	do	.10									.15		.36	.05								.26			.17		.39				.69		2.17
Clinton[3]	Osage										T.		.14	T.						T.	.03				T.	.78					T.		0.95
Concordia	Missouri						.02	T.					.12	.03												.41					.05		0.63
Crocker	Osage							.20				.03	.60	.15								T.				.16					.22		1.36
Eldon	Missouri							T.			T.		.75	.02							.03					.15	.04				.06		1.05
Eldorado Springs	Osage							.09			.18		.69	.08							.09		.11			.45					.47		2.16
Elijah[2]	White										.60		.50									.60			.55		.45						2.70
Forsyth[2]	do										.05	.10		.05								.15	.05		.12		.28						0.80
Galena[2]	do	.01						.01			.24	.08	.04	.21								.65			.10		.31						1.65
Granby[2]	do										.22	.29	.03									.37					.20						1.11
Hailey	do									.18			.62						T.				.12			.24					.22		1.38
Harrisonville[2]	Osage													.08												.83	.09	.01			.07		1.08
Jefferson City[2] ....(A)	Missouri	.02						.68				T.	.19	.20								T.					.01	.01					1.11
Jefferson City[2] .....(B)	do	.02						.72					.22	.18								T.		T.			.11						1.25
Joplin Airport[3]	Neosho						T.				.38	T.	.34	T.					T.		.18	.67			.16	.36					.04		2.13
Kansas City University	Missouri												.09	.01									T.	T.		.71	.01	.01			.10		0.93
Lakeside[2], [5]	Osage	T.						.02				.02	.60	.03								T.			T.		.15	T.					0.82
Lamar[2]	Neosho											.12	.43									.24				.31	.10						1.20

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Stations	Drainage basins	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	..	Total
Southwestern Division—	*Concluded*																																
Lebanon[2]	Osage							T.				T.	.59	.11								.02			.07		.27				T.		1.06
Lexington[2]	Missouri		T.					.09			T.	.02		.18												.49	.04	T.			T.		0.82
Lockwood[2]	Osage											.12	.48									.62					.25				.10		1.57
Mansfield[2]	White	.13									.12		.54	.09								.52			.24		.41						2.05
Marshall	Missouri		T.				.05	.06					.02	.04									T.			.14		.02			.06		0.39
Marshfield	White										.19	.01	.23	.06							.02	.04			.05	.21	.04				.93		1.78
Monett[2]	Neosho										.13	.05	.03	.05								.51			T.		.39				.17		1.33
Mountain Grove[2]	Gasconade										.01		.24	.05								.20			.05		.28						0.83
Mount Vernon[2]	Neosho																																....
Neosho	....do										.58	.01	.03	.04							.17	.28				.22		.01			.25		1.59
Nevada	Osage							.20			.07		.46									.16				.71	.40				.23		2.23
Osceola[2]	....do							.13				.01	.48	.08							.01	.06				.14	.20				T.		1.11
Ozark[2]	White	*T.*										.10	.16	.05								.84			.13		.87				T.		1.65
Ozark Beach[2]	....do										.15	.11	.05	.05								.23			.16		.36						1.11
Pierce City	Neosho										.20	.05									.50	.45				.24		.05			.08		1.57
Pineview Lookout[2]	White							.03		.20	.35	.10	.45									.15				.06	.26				.05		1.65
Pleasant Hill[2]	Osage										.02			.06												.82	.06				.10		1.06
St. Thomas[2]. 2¼ mi SW	....do							*.01*				*.02*	.56	.60							T.	T.	T.		T.		.15						§1.34
Sedalia	Missouri												.22	.03												.25					.08		0.58
Seligman[2]	Neosho										.23			1.05												T.	.61						1.89
Seymour[2] ..... 4 mi. E	White										.06		.32	.08								.24			.23		.40						1.33
Shell Knob[2]...3 mi. SE	....do										.13	.17	.06	.11								.37			.08		.27				T.		1.19
Springfield[1,5]. 4 mi. NW	Osage										.05	.05	.25	T.							.20	.14		.02		.26					.25		1.22
Stover[2]	Missouri							*.03*					.55	.07													.27						§0.92
Sugar Camp Lookout[2]	White						*	.02			.20	.12	.02	.41								.07			.12		.20						1.16
Sweet Springs	Missouri						.17		.04		T.		.03	.02												.34					.04		0.64
Tecumseh[2]. ..¼ mi. W	White											.35	.72	.74								.30	.05		.62		.48						3.26
Topaz[2]	....do												.10	.30								.12			.45		.36						1.33
Vanzant[2]....3¾ mi. SE	....do										.05	.16	.17									.15			.25		.46				*		1.24
Waco[2]	Spring						.48						*.15*	*.53*							T.	*.54*				*.52*	*.10*				*.23*		§2.30
Warrensburg	Missouri										T.		T.	T.						T.						.38	.01				.05		0.44
Warsaw[2]..........(A)	Osage							.07			T.		.50	.06							T.	.03				.03	.32				T.		1.01
Warsaw[2]..........(B)	....do							.03					.55	.03							T.						.30	T.			T.		0.91
Wasola[2]	White	T.									.19		.08	.06								.61			.20		.57						1.71
Waverly[2]	Missouri		.01					.02				.06	T.	.09									*T.*		*T.*	.17	.09	T.					0.44
Waynesville...1½ mi. E	Gasconade																																....
Wilderness Lookout[2]	White										.30	.19	.16	.08								.18			.20		.21						1.32
Southeastern Division																																	
Advance[2].....½ mile W	St. Francis	T.						.10			.04	1.26	1.47	.12												.01	.07				.06		3.13
Alton.......10 miles SE	Black																																....
Annapolis[2].....7 mi. W	....do	T.					.45				.03		1.22	.83											T.		.86	.02					3.41
Arcadia[2]	St. Francis						T.						.10	1.00													.68						1.78
Belleview[2]	Meramec	.01					.07	.49					.38									T.					.60						1.55
Bernie[2]	St. Francis	.16									.26		.58	1.47	.11								.08				.19						2.85
Birch Tree[2] ...½ mile E	Black												1.26	1.52								.08			.35		.48						3.69
Black...... 9 miles NW	....do																									.10	.56				.25		....
Bloomfield[2]	St. Francis		T.									T.	1.53	1.41	.15								T.				.14	T.					3.23
Bunker[2]... 4 miles NW	Black	.05									.03		.56	.37											.55		.53				.25		2.34
Campbell	St. Francis																																....
Cape Girardeau....(A)	Mississippi						.04	.24					1.27	1.70	T.												.29						3.54
Cape Girardeau[2]...(B)	....do						.03	.27					.97	1.42	.10												.31						3.10
Caruthersville[2]	....do								T.		.14	.03	.64	1.20	.03								T.				.31						2.35
Centerville(1)[2]	Black						.20				T.		.47	.54											.09		.43						1.73
Centerville(2)[2]	....do	.01					.52				.01	T.	.21	.59								T.			.10		.41						1.85
Clearwater Dam[2]	....do										.04	.02	1.50	.58								.06					1.10						3.30
Cook Station[2]	Meramec						.15						.38	.07											.25		.72						1.57
Crane Mountain[2]	St. Francis						.08	.01					.58	.52													.83						2.02
Crystal City	Mississippi						T.				.01	.33	.47	.10	T.						T.		.09				.07				T.		1.07
Cuba[2]	Meramec						.86	.01			.01		.60	.05								T.			.19		.67						1.89
Deering[2]	St. Francis								T.		.10		.41	2.46	T.												.40						3.37
De Soto	Mississippi					.09	T.				T.	.08	.49	.10									.02		.01		.02						0.81
Dexter[2]	St. Francis	.05							.12		.04	.03	1.02	1.38	.09							.08					.15						2.96
Doniphan(1)	Black	.04									.40		1.92	1.82													.54				.13		4.85
Doniphan(2)[2]	....do	.11							.12		.31		1.50	1.45	.06												.74						4.29
East End[2]	Meramec										.09		.08	.57											.32		.38						1.44
Ellington[2]	Black										.10	.10	1.45	1.34								.04			.10		.34						3.47
Ellsinore	....do										T.		1.15	.88								.10					1.00				.32		3.45
Farmington[2]	St. Francis	.01					.03					.07	.45	.88								T.					.22	.02					1.68
Fisk[2]	....do	T.									T.	T.	1.71	1.80	T.							T.	T.				.18						3.69
Fredericktown[2]	St. Francis						.06	T.					.90	.90													.15						2.01
Fremont[2]	Black											.08	1.05	.54								.08			.26		.58						2.59
Gerald	Meramec					.04		.17				.34	.67	.14							.02				.15		.47				.06		2.06
Greenville[2] .. 1 mi. SW	St. Francis	.01						.03			.01	.05	.90	.70								T.		.05			.47	.03					2.25
Hermann[2]	Missouri							.10					*	.60								.03					.55						1.28
High Lookout	Black										.28		.87	.24							T.	.14			.26	.43	.15				.26		2.63
Jackson	Mississippi						.06	.67					2.25	.97							T.						.12				T.		4.07
Jerome[2]	Gasconade	.08					.04	.14				.04	.56	.46							T.	.04			.04		.14						1.54
Koshkonong[2]	Black										.31		.94	.70								.14	.03		.32		.77						3.21
Leeper[2]	....do	.03						T.			.07	.01	1.20	.59	T.							.04	T.				1.39						3.33
Licking[2]	Gasconade												.50	.10											.23		.23						1.06
Macedonia Lookout[2]	Black	.02									.15		1.87	1.56													.82						4.42
Marble Hill	Mississippi						.20	.08					2.20	.81													.10				.08		3.47
Morehouse	....do	.09							.13				.83	1.07													.18				.10		2.40
Moselle[2]	Meramec						.40	.12					.86	.10	.02										.17		.86	.20					2.23
New Madrid[2]	Mississippi										.07	T.	.42	.97								T.					.28						1.74
Oates Tower[2]	Black										T.	T.	.26	.57								T.			.16		.37						1.36
Owensville[2]	Gasconade	.07					.18	.60					1.10	.25											.10		.40	.11					2.81
Pacific[2]	Meramec						*	*	.46			T.	.57	1.02								T.			*		1.30	.07					3.42
Parma[2]	St. Francis	.09									.19		.41	1.55	.05								.07				.19						2.55
Perryville	Mississippi						.06		T.			.30	.83	.60							T.						.07						1.86
Poplar Bluff[2]	Black										.07		1.89	1.88	.05							.02	T.				.40						4.31
Puxico[2]	St. Francis	.02											1.54	1.87	.03							.03					.20						3.69
Qulin[2]	....do	.03									.25	T.	.80	1.23	.01			T.									.28						2.60
Reynolds[2]	Black						.38				.04		.22	.51											.12		.39						1.66
Richwoods[2]	Meramec						.20	.16					.50	.12											.12		.13						1.23
Roby	Gasconade					.10					.01	.05	.42	.08							.05				.04	.17	.02				.32		1.26
Rolla[2]	Meramec						T.						.60	.05								.03			.05		.55						1.28
Round Spring[2]	Black						.20				.08		.38	.25								.25			.58		.76						2.50
St. Louis:																																	
City Office[1,5]	Mississippi					.61	T.	.10			.06	.65	.60	.02							.01		T.		.03	T.	.13				T.		2.21
Airport[3,5]	Missouri					.06	.22	T.			.03	.36	.48	.02							T.		T.	T.	.03	.03	.07	T.			.02		1.32
St. Louis Univ.[1,5]	Mississippi					.37	.01	.18			.06	.44	.56	.02							.01		T.		.05	T.	.19				T.		1.89
Washington Univ.[2]	...do						.31		.07		.04		.79	.31											.06		.11						1.69
Salem[2]	Meramec						.03						.73	.17	T.										.45		.76						2.14

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Stations	Drainage-basins	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	..	Total
Southeastern Division —	*Concluded*																																
Sikeston[3]	Mississippi	.05	T.	....	....	....	....	.01	T.	....	.02	T.	.57	1.38	.02	....	....	....	....	....	....	T.	....	....	....	....	.21	T.	....	....	....	....	2.26
Siloam Sprgs Lookout[2]	White	....	....	....	....	....	....	....	....	....	.47	....	.40	1.00	....	....	....	....	....	....	....	.11	....	....	.52	....	.36	....	....	....	....	....	2.86
Steelville[2] ...2½ mi. NE	Meramec	T.	....	....	....	....	.02	....	....	....	....	....	T.	T.	.60	.10	....	....	....	....	....	....	.36	....	....	.21	....	.78	....	....	....	....	2.07
Sullivan[2]	....do	T.	....	....	....	....	.29	.60	T.	....	....	....	.54	.04	.02	....	....	....	....	....	....	T.	....	.03	.28	....	.44	....	....	....	....	....	2.24
Summersville[2]	Black	.02	....	....	....	....	....	....	....	....	T.	T.	.36	.26	....	....	....	....	....	....	....	.12	T.	....	.46	....	.54	....	....	....	....	....	1.76
Union[2] ....1½ mi. SE	Meramec	.02	....	....	....	....	.31	.18	.14	....	....	....	.48	.46	T.	....	....	....	....	....	....	T.	....	....	.14	....	.34	.06	....	....	....	....	2.13
Valley Park[2]	....do	T.	....	....	....	....	.09	T.	.25	....	T.	....	.43	.45	....	....	....	....	....	....	....	T.	....	....	.04	....	.11	....	....	....	....	....	1.37
Van Buren[2]	Black	....	....	....	....	....	....	....	....	....	....	....	1.55	.81	....	....	....	....	....	....	.12	....	....	....	....	....	.51	....	....	....	....	....	2.99
Vichy[3] .....2 miles NW	Meramec	....	....	....	....	.04	....	T.	....	....	T.	.14	.88	.01	....	....	....	....	....	....	.02	....	....	T.	....	.31	....	T.	....	....	.14	....	1.54
Wappapello Dam[3]	St. Francis	.02	....	....	....	....	....	.03	....	....	T.	....	2.00	1.45	.02	....	....	....	....	....	....	.03	....	....	....	....	.46	....	....	....	....	....	4.01
Webster Groves	Mississippi	....	....	....	....	.03	.03	.20	....	....	.04	.07	1.17	.17	....	....	....	....	....	....	T.	....	....	....	.04	....	.10	.10	....	....	T.	....	1.95
Weingarten	....do	....	....	....	....	....	....	....	....	....	....	.36	.86	.49	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1.71
West Plains[3]	Black	....	....	....	....	....	....	T.	....	....	.24	.55	.45	T.	....	....	....	....	....	....	.01	.04	....	.64	....	.19	T.	....	....	....	.10	....	2.22
Williamsville[2]	....do	.02	....	....	....	....	....	....	....	....	....	....	1.11	1.50	T.	....	....	....	....	....	....	.18	....	....	....	....	.59	.03	....	....	....	....	3.43
Willow Springs[2] 500 ft E	White	....	....	....	....	....	....	....	....	....	.12	....	.24	.29	....	....	....	....	....	....	....	.10	....	....	.35	....	.26	....	....	....	....	....	1.36
Zalma[2]	Mississippi	....	....	....	....	....	....	....	....	....	....	....	1.03	1.20	.03	....	....	....	....	....	....	....	....	....	....	....	.16	....	....	....	....	....	2.42
Cairo, Ill.[1, 5]	....do	.07	....	....	....	T.	....	.10	....	....	.02	....	1.55	.22	....	....	....	....	....	....	T.	....	....	....	....	....	.21	....	....	....	.02	....	2.19
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....

Except as otherwise indicated, amounts are for 24 hours ending late in afternoon. [1] Midnight to midnight. [2] Measured in the morning; for the preceding 24 hours. [3] Data for 24 hours ending 12:30 A. M. (C. S. T.) of following day. [5] Recording gage. T. Trace or 0.005 inch or less. * Included in next measurement. // Windshield on gage. Italics data interpolated. § Partly interpolated. (A) Record from cooperative station gage. (B) Record from river station gage. (C) Airport. ‡ Received too late to be included in means and extremes.

Daily Evaporation (inches), Mean Temperature (F°), and Wind Movement (miles) for April 1948

(See precipitation data in daily precipitation table)

Station	Data	Day of month																															Monthly
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	..	
Columbia (Univ. of Mo. Hort. Exp. Sta. 9 mi. WNW.)	Evaporation	.103	.130	.253	.345	.142	.099	.269	.234	.141	.205	.191	.021	.004	.088	.235	.237	.207	.412	.326	.216	.175	.200	.338	.284	.256	.136	.244	.262	.219	.177	....	6.149
	Mean temperature	42	44	54	62	62	60	71	60	46	56	62	49	41	47	59	60	54	70	72	70	56	64	71	72	69	66	64	58	60	62	..	59.6
	Wind movement	59	47	91	134	78	24	126	71	39	122	164	74	123	38	75	61	59	149	140	80	26	92	123	162	91	37	35	65	23	31	..	2,439
Lakeside (Osage Dam)	Evaporation	.155	.041	.167	.318	.281	.165	.230	.313	.204	.225	.139	.263	.010	.057	.143	.245	.293	.307	.448	.325	.137	.232	.282	.356	.329	.164	.216	.294	.307	.228	....	6.874
	Mean temperature	48	46	53	63	66	66	68	54	51	58	64	46	44	53	58	62	62	70	76	68	64	68	72	73	70	66	64	60	58	61	..	61.0
	Wind movement	33	98	49	125	81	51	84	83	62	109	148	82	104	67	29	59	73	81	122	97	52	62	94	145	112	75	45	50	79	45	..	2,396
St. Louis (Washington University)	Evaporation	.054	.120	.154	.152	.212	.163	.082	.197	.203	.133	.113	.087	.044	.044	.115	.125	.269	.161	.230	.289	.130	.112	.109	.235	.281	.240	.164	.286	.258	.212	....	4.974
	Mean temperature	46	46	52	60	66	61	70	58	48	56	60	45	44	51	56	64	52	65	72	72	52	60	68	74	75	72	69	60	60	60	..	59.8
	Wind movement	51	37	47	45	62	45	39	34	58	44	102	57	111	71	34	46	37	85	53	69	49	39	30	66	49	55	25	51	55	38	..	1,584

Observations taken at 8:00 a. m. except at 5:00 p. m. at Columbia. For Lakeside and St. Louis (Washington University) descriptions see April 1932 and August 1938 reports, respectively. * Included in next measurement.

Missouri Storms, April 1948

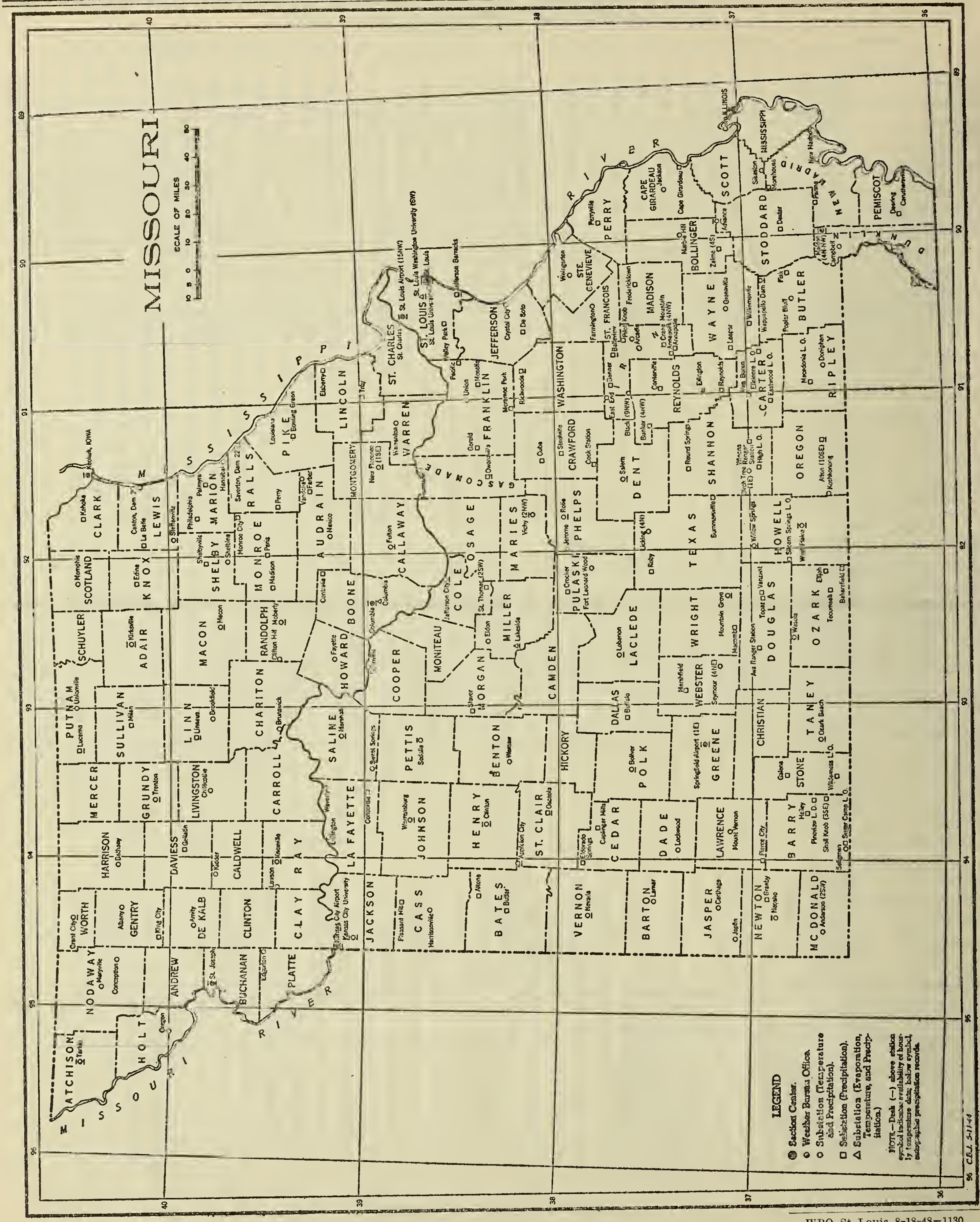
Place	Date	Time	Width of path	Loss of life	Value of property destroyed	Character of storm	Remarks
Boone County	6	10:00 p.m. to 10:05 p.m.	....	0	$800	High wind	Principal damage to a farm 20 miles north of Columbia, and about 2 miles off Highway No. 63. A garage and the automobile therein damaged; several small outbuildings damaged.
Randolph County	6	9:20 p.m.	1000 feet	0	$50,000	Tornado	Storm at Higbee, over an area about 3 city blocks square, in center of the town, with greatest damage over 2 blocks. About 200 structures (houses and store buildings) damaged but none completely destoyed. Many window panes blown out and some large plate glass ones broken. One person slightly injured by flying glass. Trees and wires blown down and broken.
Grundy County	6	At night	....	0	....	High wind	Damage estimated at "several thousand dollars". Many roofs damaged, chimneys blown over; many window panes and some large plate glass windows were blown out and broken. Utility wires were also broken and trees damaged. Storm occurred at Trenton.
Newton County	9	11:30 p.m.	½ mile	0	....	Heavy hail	At Granby there were some hailstones as large as small hen eggs. Fall of hail was heavy. Considerable damage to roofs, strawberry beds and spring gardens at Granby and also over other scattered areas in Newton County.

Time used on this tabulation is Central Standard Time, unless otherwise indicated.

Daily Temperatures for April 1948

Stations		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	..	Mean
Northern Division																																	
Brunswick /	Maximum..	56	56	73	75	70	74	81	56	61	70	61	51	50	66	75	70	70	87	81	71	71	83	84	82	77	78	72	70	73	74	..	70.6
	Minimum ..	31	31	35	41	51	45	48	46	34	34	50	46	40	33	33	47	43	43	60	58	45	44	52	63	60	55	53	50	47	45	..	45.4
Chillicothe 2 mi ESE(C)	Maximum..	56	54	72	75	68	72	78	56	59	67	70	50	52	66	76	68	70	87	81	68	71	81	82	83	71	79	72	71	75	75	..	70.2
	Minimum ..	28	31	37	47	48	44	52	36	30	45	46	39	39	29	44	45	42	57	63	50	40	50	60	61	58	52	50	47	41	53	..	45.5
Columbia	Maximum..	56	58	72	76	74	78	85	61	63	65	68	50	46	64	78	76	70	87	85	72	71	84	84	85	82	80	73	71	75	74	..	72.1
	Minimum ..	32	38	42	51	57	49	61	43	37	48	50	41	40	35	49	50	43	57	68	53	46	50	64	66	62	58	55	50	46	56	..	49.9
Fayette	Maximum..	56	56	72	75	71	75	82	72	61	66	70	58	46	64	77	74	70	86	84	78	70	83	85	84	80	78	76	70	74	73	..	72.2
	Minimum ..	29	35	39	49	54	47	58	43	33	46	57	40	39	32	43	49	41	51	63	60	42	49	60	62	59	55	52	48	44	52	..	47.7
Grant City	Maximum..	57	54	73	73	66	72	73	62	54	65	67	53	55	70	79	72	69	86	83	75	69	62	72	79	73	74	69	67	74	72	..	69.0
	Minimum ..	23	26	38	49	43	40	57	31	29	43	46	39	35	31	*58*	50	40	50	66	50	41	48	56	60	57	50	45	47	45	49	..	§44.6
Hannibal	Maximum..	54	52	68	75	72	67	83	60	55	66	66	50	44	63	75	67	62	87	83	71	63	65	85	85	85	80	73	68	71	70	..	68.8
	Minimum ..	29	33	36	49	55	45	56	40	32	47	48	38	37	34	48	48	37	52	66	49	44	46	59	62	60	59	54	49	44	48	..	46.8
Kansas City Airport..	Maximum..	63	58	74	78	69	76	78	58	67	73	73	52	56	71	80	75	78	87	82	74	73	83	80	84	68	79	72	70	76	80	..	72.9
	Minimum ..	31	36	49	55	51	47	58	40	41	52	49	41	40	34	56	52	48	66	71	55	50	54	65	61	58	56	53	52	47	56	..	50.8
Kirksville	Maximum..	54	53	70	73	69	71	78	62	53	66	63	52	47	64	72	70	65	84	79	74	68	67	82	80	80	76	79	67	70	68	..	68.5
	Minimum ..	26	30	34	45	54	45	55	35	28	43	51	37	87	32	44	51	38	51	65	51	41	46	55	61	59	56	51	46	45	50	..	45.4
Lathrop	Maximum..	59	57	72	75	70	77	..	68	59	67	71	51	56	68	77	75	73	86	81	..	70	81	78	82	75	75	70	69	74	..	..	^{c}71.0
	Minimum ..	25	30	38	50	54	42	..	35	33	48	48	39	38	32	53	48	42	62	68	..	42	50	61	61	57	52	47	46	44	..	..	^{c}46.1
Louisiana	Maximum..	54	54	65	75	74	70	85	76	59	65	70	60	45	65	74	72	65	87	85	80	65	70	85	87	86	80	76	70	72	70	..	71.4
	Minimum ..	33	32	31	47	53	48	59	47	31	47	57	41	39	38	40	55	38	51	65	64	38	45	57	63	64	61	51	51	47	41	..	47.8
Macon /	Maximum..	55	54	72	75	70	70	80	55	57	68	62	49	46	63	76	67	76	86	80	70	67	72	84	83	82	78	72	69	73	73	..	69.5
	Minimum ..	26	30	32	38	49	45	45	40	28	35	45	41	36	30	35	48	35	41	57	57	40	46	47	60	60	56	50	46	47	49	..	43.1
Maryville	Maximum..	58	53	73	75	69	70	74	68	57	66	63	52	57	72	80	73	72	88	84	78	68	64	71	79	74	74	68	67	72	73	..	69.7
	Minimum ..	22	26	38	48	42	42	53	30	31	43	42	39	33	29	52	48	41	60	62	49	41	47	57	60	55	47	42	46	44	52	..	44.0
Mexico /	Maximum..	55	56	73	76	74	73	86	59	60	71	70	47	44	65	75	73	70	88	85	74	69	78	86	85	85	81	73	70	73	75	..	71.6
	Minimum ..	29	32	37	44	53	47	50	45	31	39	48	45	38	32	41	51	38	50	60	62	40	48	51	65	61	58	53	48	42	50	..	46.3
Moberly /.... 3½ mi. NE	Maximum..	55	64	71	76	78	80	*80*	50	58	68	60	43	49	70	76	70	80	86	81	70	68	76	84	*84*	*81*	76	71	70	78	71	..	§70.6
	Minimum ..	28	34	40	48	48	46	50	41	30	46	53	42	38	32	44	50	40	49	63	59	40	48	46	67	*58*	*57*	50	47	49	47	..	§46.3
Oregon	Maximum..	61	58	73	78	67	74	76	57	60	69	69	51	57	74	82	68	75	88	84	68	70	71	74	80	65	74	73	70	75	74	..	70.5
	Minimum ..	26	33	29	52	45	44	56	36	33	48	45	40	35	34	56	46	44	62	62	48	46	51	61	59	56	46	48	49	49	53	..	46.4
St. Charles	Maximum..	55	57	66	76	83	71	90	80	59	66	75	62	47	65	73	78	68	86	88	81	69	73	85	87	85	83	78	72	75	72	..	73.5
	Minimum ..	38	37	38	48	51	53	61	50	36	45	56	42	41	41	45	49	39	49	64	65	44	46	59	63	65	62	61	50	44	48	..	49.7
St. Joseph Airport	Maximum..	63	60	73	77	67	76	77	57	63	70	69	51	58	74	82	70	77	88	84	68	72	78	76	83	67	75	70	70	76	76	..	71.6
	Minimum ..	27	32	42	54	46	43	56	36	38	46	46	42	38	33	54	46	45	65	65	53	47	53	63	60	58	52	48	49	44	55	..	47.9
Trenton	Maximum..	58	55	73	75	70	73	78	73	64	67	69	60	55	68	78	70	69	87	83	76	70	76	81	81	76	78	72	70	75	73	..	71.8
	Minimum ..	28	31	38	48	53	46	47	35	31	45	52	46	39	31	50	50	42	59	63	54	43	49	59	61	58	53	50	47	46	52	..	46.9
Unionville /	Maximum..	56	53	71	74	63	71	76	55	53	65	55	45	50	65	73	64	66	85	69	65	67	62	81	81	75	76	69	68	72	68	..	66.4
	Minimum ..	25	26	29	38	47	44	43	32	25	33	45	42	35	30	36	49	38	40	62	50	40	42	55	60	57	54	48	45	44	50	..	42.1
Warrenton	Maximum..	55	56	67	75	80	70	87	81	57	66	72	60	43	63	73	77	67	87	87	82	69	75	84	83	84	79	78	71	73	67	..	72.3
	Minimum ..	35	33	35	47	58	42	61	47	29	42	55	40	39	39	42	57	37	50	67	59	40	45	59	61	63	60	54	49	43	45	..	47.8
Keokuk, Iowa	Maximum..	53	50	65	74	68	67	79	60	52	63	62	50	44	62	72	63	62	86	80	70	63	60	83	82	82	77	68	67	70	66	..	66.7
	Minimum ..	33	33	38	49	53	45	56	39	37	47	50	39	39	36	54	44	37	52	67	51	44	47	60	65	62	58	55	49	47	49	..	47.8
Southwestern Division																																	
Clinton	Maximum..	60	59	75	77	74	85	84	59	69	72	70	49	48	68	80	79	80	89	82	75	74	85	85	84	67	81	75	74	77	80	..	73.9
	Minimum ..	33	39	46	52	55	48	59	42	37	52	47	41	39	32	48	50	45	60	65	55	48	56	61	62	59	53	51	50	45	56	..	49.5
Eldon	Maximum..	57	58	72	75	79	83	86	77	65	67	72	61	45	66	76	78	74	82	86	80	79	83	83	82	80	79	77	70	75	75	..	74.1
	Minimum ..	33	38	39	49	56	50	65	48	35	49	60	42	39	35	44	54	43	55	67	59	45	50	60	61	58	54	55	50	46	52	..	49.7
Harrisonville /	Maximum..	64	62	75	79	78	84	86	66	68	71	74	49	53	70	77	79	77	86	80	72	72	82	80	83	65	77	75	72	74	77	..	73.6
	Minimum ..	30	34	40	39	43	46	51	42	37	41	52	44	40	32	31	50	44	48	64	59	45	49	61	61	56	52	50	49	47	54	..	46.4
Jefferson City	Maximum..	56	60	73	74	77	79	84	74	63	66	71	59	45	66	75	77	71	87	87	79	71	83	83	83	81	80	74	71	75	75	..	73.3
	Minimum ..	33	31	36	47	55	46	60	46	33	47	57	41	39	35	40	52	42	54	65	60	46	49	61	64	60	54	52	48	42	47	..	48.1
Joplin Airport	Maximum..	61	68	74	77	74	86	83	64	72	72	75	55	50	70	78	84	87	86	85	70	78	81	80	81	65	81	79	74	80	86	..	75.2
	Minimum ..	34	38	49	52	59	56	58	45	41	48	52	42	37	30	46	56	48	62	67	56	55	61	63	60	58	54	53	51	47	57	..	51.2
Lamar /	Maximum..	61	66	75	77	77	87	86	61	70	72	74	49	49	67	78	83	85	86	82	65	75	85	80	81	68	80	78	73	75	83	..	74.3
	Minimum ..	31	31	33	43	49	57	57	48	39	39	47	44	39	28	28	44	48	49	65	62	53	54	59	60	57	51	48	47	40	41	..	46.4
Lebanon /	Maximum..	58	64	70	74	79	82	81	64	68	69	71	46	45	66	75	80	76	85	84	68	75	81	79	80	77	78	78	71	76	71	..	72.4
	Minimum ..	34	35	37	43	57	50	53	50	35	38	48	43	39	37	38	48	44	46	55	65	53	53	55	60	61	53	52	50	42	47	..	47.4
Lexington /	Maximum..	60	58	74	73	70	76	79	58	62	71	64	50	52	69	77	74	75	88	82	73	73	83	82	84	68	80	74	72	77	81	..	72.0
	Minimum ..	31	33	36	49	56	47	51	40	37	41	53	48	40	32	36	52	44	49	65	58	47	52	56	63	58	54	53	48	48	55	..	47.7
Marshall	Maximum..	55	55	73	75	71	74	80	75	61	66	70	54	47	64	76	75	70	87	85	81	70	83	83	81	80	80	78	70	72	77	..	72.3
	Minimum ..	30	35	40	48	57	46	62	42	35	46	47	40	39	33	49	50	42	59	67	59	49	50	61	64	59	50	51	48	41	58	..	48.6
Mountain Grove	Maximum..	57	64	68	73	78	81	82	77	65	64	79	65	50	65	72	83	80	84	85	80	71	79	77	79	77	76	83	79	78	76	..	74.2
	Minimum ..	34	37	39	44	53	50	63	51	38	43	56	44	39	39	43	50	45	49	62	59	50	50	58	59	60	56	57	51	45	52	..	49.2
Neosho	Maximum..	63	72	74	76	79	86	83	81	72	72	74	68	55	70	78	86	87	85	85	82	79	83	80	80	78	82	81	78	78	85	..	77.7
	Minimum ..	34	31	44	44	61	55	69	46	42	50	64	50	43	27	40	50	49	61	69	62	56	59	63	64	58	51	52	52	88	54	..	51.3
Nevada	Maximum..	62	66	75	77	75	89	85	82	70	73	73	69	52	68	79	83	85	87	87	78	76	82	81	83	78	82	80	75	79	85	..	77.2
	Minimum ..	32	33	44	50	58	53	65	48	39	48	59	43	41	29	45	50	46	59	69	54	51	61	60	62	57	52	53	47	44	55	..	50.2
Sedalia	Maximum..	57	58	73	75	74	80	81	78	65	70	71	60	46	64	77	76	75	87	84	80	72	83	83	82	81	79	78	71	74	78	..	73.7
	Minimum ..	30	35	45	52	58	46	46	43	36	50	59	40	39	31	49	53	44	61	68	58	49	51	63	63	59	56	51	48	42	55	..	49.0
Springfield....4 mi. NW	Maximum..	57	66	70	74	78	83	80	62	67	69	70	50	45	67	77	82	78	85	83	68	73	80	76	79	69	77	77	70	76	73	..	72.0
	Minimum ..	35	37	45	47	55	53	59	43	37	47	50	42	40	33	41	50	48	53	64	56	54	57	60	61	58	54	56	51	45	52	..	49.4
Warrensburg	Maximum..	59	57	73	76	73	80	83	78	65	70	72	60	49	65	76	76	75	87	81	79	73	82	82	82	79	79	79	73	75	79	..	73.9
	Minimum ..	31	37	46	52	57	47	67	44	37	51	58	41	40	33	50	52	45	60	66	60	46	53	62	62	58	54	53	50	49	55	..	50.5
Southeastern Division																																	
Arcadia /	Maximum..	58	64	74	75	80	84	86	74	66	63	82	55	52	67	76	87	76	84	87	77	80	80	82	86	82	80	85	73	80	70	..	75.5
	Minimum ..	37	28	29	32	44	48	49	53	34	38	47	45	42	39	37	40	40	39	49	63	48	44	46	62	64	60	58	52	44	40	..	45.0
Birch Tree.... ½ mile E	Maximum..	58	65	69	74	76	83	82	80	68	63	81	77	50	67	71	..	..	83	83	80	75	79	78	80	79	78	85	79	77	74	..	^{b}74.8
	Minimum ..	41	28	32	36	58	51	66	50	39	43	53	46	42	41	38	..	..	43	63	62	53	48	60	59	61	60	54	53	39	45	..	^{b}48.7
Caruthersville	Maximum..	69	68	65	75	78	83	83	80	73	65	80	79	66	55	66	79	74	80	84	84	81	81	85	85	85	82	85	83	76	75	..	76.8
	Minimum ..	47	39	44	51	60	61	67	62	49	47	55	56	54	45	41	48	50	51	62	64	62	51	63	66	64	61	59	59	53	52	..	54.8
Crystal City	Maximum..	56	62	64	76	82	77	88	84	64	65	82	53	48	65	72	83	68	87	88	85	73	73	85	86	85	83	80	77	76	73	..	74.7
	Minimum ..	40	33	32	45	54	51	61	55	35	47	53	46	43	42	39	50	40	48	66	69	47	48	56	66	63	64	59	54	43	43	..	49.7
Doniphan	Maximum..	61	71	69	79	80	88	89	79	68	59	83	80	56	67	72	89	75	84	88	85	80	85	83	87	87	83	91	78	81	71	..	78.3
	Minimum ..	44	28	31	39	55	51	68	51	41	46	55	50	46	45	36	40	48	41	61	60	59	50	57	62	62	62	61	56	38	44	..	49.7
Farmington	Maximum..	54	59	67	74	78	81	84	79	63	58	81	62	47	62	69	80	67	83	85	78	69	78	81	83	82	79	80	70	73	67	..	72.4
	Minimum ..	37	30	34	44	53	51	64	52	35	42	51	43	40	38	39	48	37	46	63	63	45	43	55	61	62	60	58	49	46	42	..	47.7
Jackson	Maximum..	60	65	68	74	76	84	82	79	67	63	79	72	53	62	67	84	78	80	81	84	73	76	84	84	86	82	87	79	76	72	..	75.3
	Minimum ..	44	30	82	46	55	60	63	56	40	47	54	47	45	42	36	43	40	42	59	63	50	45	61	64	63	63	56	53	42	40	..	49.4
Poplar Bluff	Maximum..	61	68	68	75	79	85	86	79	68	61	82	79	55	68	70	83	76	82	85	85	78	83	83	84	84	78	91	82	81	72	..	77.0
	Minimum ..	44	32	32	42	57	57	68	60	44	46	55	49	47	44	39	44	46	44	61	62	55	49	57	63	63	62	57	57	49	45	..	51.0
Rolla /	Maximum..	49	59	66	66	78	78	83	63	64	67	67	45	47	61	73	72	82	82	78	73	68	81	75	73	73	80	72	66	66	76	..	69.4
	Minimum ..	34	36	39	46	61	52	65	49	37	47	55	41	39	38	41	52	41	52	60	65	48	47	61	60	64	56	56	49	45	51	..	49.6
St. Louis	Maximum..	52	53	63	74	80	72	88	69	59	63	74	50	46	61	68	75	62	82	86	74	58	72	84	85	83	79	75	68	72	69	..	69.9
	Minimum ..	38	41	41	46	54	52	63	49	40	45	50	41	41	40	46	49	39	49	61	57	47	48	60	66	64	64	63	55	51	50	..	50.3
Salem /	Maximum..	54	61	70	75	80	83	82	67	68	63	79	48	46	62	72	82	75	84	85	73	76	81	82	81	81	80	79	70	74	70	..	72.8
	Minimum ..	35	34	38	44	46	48	51	49	33	42	48	44	40	39	40	44	42	46	56	52	53	48	51	60	64	58	56	51	42	46	..	46.7
Sikeston /	Maximum..	58	66	65	75	77	85	85	76	65	67	80	61	52	60	67	82	67	79	85	84	74	80	84	85	85	79	88	75	77	75	..	74.6
	Minimum ..	45	36	38	44	54	60	64	57	42	47	49	50	50	43	41	49	43	44	59	63	55	48	55	66	65	62	59	54	43	45	..	51.0
Union ....1½ mi. SE	Maximum..	54	58	68	77	82	72	87	75	60	66	73	58	45	62	74	78	65	87	89	83	70	76	84	84	80	80	78	70	73	69	..	72.6
	Minimum ..	36	31	32	42	56	49	60	48	31	40	55	43	40	40	37	50	38	45	64	61	44	46	57	58	61	60	58	51	42	44	..	47.3
West Plains	Maximum..	58	66	68	74	78	84	84	72	66	58	82	57	50	67	72	86	75	85	85	79	73	81	78	80	77	78	86	73	78	69	..	74.0
	Minimum ..	34	30	32	39	47	49	62	46	40	45	57	49	43	40	37	42	49	48	63	59	56	51	55	58	62	56	54	47	42	46	..	47.8
Cairo, Ill.	Maximum..	56	65	65	73	77	81	83	76	64	60	78	61	60	60	67	83	66	79	85	84	70	77	84	84	85	80	86	73	76	71	..	73.6
	Minimum ..	44	40	43	51	61	62	68	52	46	50	58	51	47	43	43	51	46	51	64	67	54	51	65	68	67	64	62	59	52	53	..	54.4

/ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs. ^{a}, ^{b}, ^{c}, etc., number of days missing, for example, ^{b} indicates two days missing. Italics data interpolated. § Partly interpolated. (C) Airport.


MISSOURI
SCALE OF MILES
10 5 0 10 20 30 40 50
LEGEND
● Section Center.
○ Weather Bureau Office.
○ Substation (Temperature and Precipitation).
□ Substation (Precipitation).
△ Substation (Evaporation, Temperature, and Precipitation.)
NOTE—Dash (—) above station symbol indicates availability of hourly temperature data; below symbol, autographic precipitation records.
MISSISSIPPI RIVER
MISSOURI RIVER
ATCHISON
NODAWAY
WORTH
HARRISON
MERCER
PUTNAM
SCHUYLER
SCOTLAND
CLARK
HOLT
ANDREW
GENTRY
DAVIESS
GRUNDY
SULLIVAN
ADAIR
KNOX
LEWIS
BUCHANAN
DE KALB
CALDWELL
LIVINGSTON
LINN
MACON
SHELBY
MARION
PLATTE
CLINTON
CLAY
RAY
CARROLL
CHARITON
RANDOLPH
MONROE
RALLS
PIKE
JACKSON
LA FAYETTE
SALINE
HOWARD
BOONE
AUDRAIN
MONTGOMERY
LINCOLN
ST. CHARLES
ST. LOUIS
WARREN
CALLAWAY
CASS
JOHNSON
PETTIS
COOPER
MONITEAU
COLE
OSAGE
GASCONADE
FRANKLIN
JEFFERSON
BATES
HENRY
BENTON
MORGAN
MILLER
MARIES
CRAWFORD
WASHINGTON
STE. GENEVIEVE
ST. FRANCOIS
PERRY
CAPE GIRARDEAU
VERNON
ST. CLAIR
HICKORY
CAMDEN
PULASKI
PHELPS
DENT
IRON
REYNOLDS
MADISON
BOLLINGER
SCOTT
MISSISSIPPI
BARTON
CEDAR
POLK
DALLAS
LACLEDE
TEXAS
SHANNON
WAYNE
CARTER
BUTLER
STODDARD
NEW MADRID
PEMISCOT
JASPER
DADE
GREENE
WEBSTER
WRIGHT
DOUGLAS
HOWELL
OREGON
RIPLEY
DUNKLIN
NEWTON
LAWRENCE
CHRISTIAN
OZARK
MC DONALD
BARRY
STONE
TANEY
ILLINOIS
Keokuk, IOWA
CBJ 5-11-44

51.05
NMS
1.52⁵

Nat. Hist

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U. S. DEPARTMENT OF COMMERCE, WEATHER BUREAU

CLIMATOLOGICAL DATA

19

SEP 25 1948

MISSOURI SECTION

H. F. WAHLGREN
ST. LOUIS, MO.

VOL. LII MAY 1948 No. 5

PRICE: 5 CENTS A COPY; 25 CENTS A YEAR

GENERAL SUMMARY

May averaged slightly cooler and considerably drier than normal, but it was a favorable month for outdoor and field work and for good crop growth and development, particularly the latter half.

No unusual extremes of temperature occurred during the month and no outstanding warm or cool periods prevailed. Low nighttime temperatures were mainly responsible for the average temperature deficiency for the month; daytime temperatures averaged slightly higher than normal, as a rule. Monthly average temperatures by divisions, with departures from normal were:—Northern, 62.6°, —0.7°; Southwestern, 64.4°, —0.5°; Southeastern, 64.7°, —1.1°; for the State, 63.9°, —0.5°. This was the fourth consecutive May with below-normal temperature average for the State, as a whole. It was the warmest May, however, since 1944 and averaged 1.6° warmer than May a year ago. Light frost formed locally on the 7th and 8th, but without causing any damage. No freezing temperatures were recorded anywhere in the State.

Precipitation, although deficient, was generally sufficient for current needs, during most of the month. The greater part of the month's rainfall occurred during the first half, the latter half being almost rainless, except for more or less local showers on the 22-23d and scattered unimportant light showers on the 30th. Monthly totals varied from 6.85 inches at Farmington to 1.25 inches at Moberly. The three divisions of the State had averages and deficiencies from normal as follows:—Northern, 2.97 inches, −1.66 inches; Southwestern, 3.85 inches, −1.36 inches; Southeastern, 3.69 inches, —0.86 inch; for the State, 3.50 inches, −1.30 inches. This was the driest May since 1941, for the State as a whole, and also for each of the three divisions. It was the second consecutive month of the current season averaging drier than normal, the deficiency for the two months being 3.53 inches, for the State. Heavy to excessive rains occurred locally on the 1st-2d and again on the 15th, when 24-hour amounts of more than two inches to as much as 3.75 inches were recorded at some stations. There was no snowfall recorded anywhere in the State.

Damaging storms were mostly local and confined to the 1st, 10th, and 15th and were not particularly severe. Thunderstorms were rather frequent during the first half of the month, but generally without damage, except on dates mentioned. On the afternoon of the 10th, at St. Louis, a man was struck and killed by lightning and five other persons were slightly shocked.

No floods occurred during the month in any of the major rivers of the State, except in portions of the Mississippi and the St. Francis rivers. As a rule, river stages steadily decreased during the month and were much lower at the close than at the beginning of May.

General soaking rains, that were needed at the close of April, set in the first day or two of May and beneficial showers were frequent until the middle of the month, after which there was very little rainfall, except local showers on 22-23d. The moisture received during the first half of the month was generally sufficient to sustain growing crops and grasses throughout the remainder of the month, although by the end of May more rainfall was beginning to be needed in most areas of the State.

(Continued on page 35)

PRESSURE, WIND, HUMIDITY, AND SUNSHINE

Stations	Sea-level pressure, extremes-inches				Wind				Relative humidity				Percentage of sunshine	Degree days
	Highest	Date	Lowest	Date	Average hourly velocity	Maximum velocity ¶	Direction of maximum	Date	12:30 a. m.	6:30 a. m.	12:30 p. m.	6:30 p. m.		
Columbia	30.33*	19	29.36*	1	6.5	31	n.	1	78*	85*	57*	56*	75	80
K. C. Airport	30.29	19	29.41	2	9.4	34	nw.	6	72	78	49	48	64	79
St. Joseph Ap't	30.29	19	29.42	1	7.2	26	nw.	6	79	85	54	55	60	84
St. Louis	30.37*	19	29.41*	2	9.9	40	w.	1	75*	74	52	57*	68	65
Springfield	30.31	19	29.40	1	10.1	42	w.	10	81	85	58	61	67	99
Cairo, Ill.	30.31	19	29.50	2	8.5	45	sw.	2	..	80	54	..	80	24
....	.....	..	.....	..	....	..	......	..	..	..	..	..	..	....

* Data for Airport station. ¶ For 5-minute period.

COMPARATIVE DATA FOR MAY

Year	Temperature			Precipitation					Number of days			
	Average for State	Highest	Lowest	Average for State	Average, Northern Division	Average, Southwestern Division	Average, Southeastern Division	Snowfall, Average for State	Precip. .01 inch or more	Clear	Partly cloudy	Cloudy
1888	62.1	93	30	4.98	6.23	4.73	3.98	....	5	..	..	..
1889	63.5	100	28	6.06	7.41	6.91	3.87	....	5	..	..	..
1890	62.8	97	26	3.65	2.91	4.62	3.43	....	6	..	..	..
1891	61.5	97	27	4.11	4.84	3.87	3.62	0	8	..	..	..
1892	60.7	91	28	9.04	8.72	10.11	8.28	0	17	5	9	17
1893	61.8	94	30	6.14	5.74	6.11	6.56	0	10	11	11	9
1894	63.7	96	29	4.31	2.60	5.18	5.14	0	8	13	11	7
1895	64.6	103	28	3.95	4.01	5.45	2.40	0	9	13	12	6
1896	70.1	96	37	9.17	9.00	10.29	8.22	0	12	12	12	7
1897	62.4	93	28	2.60	2.64	2.68	2.47	0	7	16	11	4
1898	65.2	97	31	7.68	8.86	7.81	6.88	0	14	12	10	9
1899	66.9	96	34	6.07	7.01	5.89	5.31	0	12	10	13	8
1900	66.3	97	29	3.63	3.80	3.00	4.09	0	10	14	11	6
1901	63.8	98	30	1.47	1.55	1.43	1.42	0	6	15	10	6
1902	69.4	98	39	4.82	5.31	5.65	3.51	0	11	13	11	7
1903	65.1	92	23	7.05	7.01	8.21	5.93	0	15	9	10	12
1904	63.1	95	32	4.74	5.46	5.40	3.35	0	12	13	10	8
1905	64.9	94	34	5.33	4.20	6.62	5.17	0	10	12	11	8
1906	66.3	98	27	2.45	2.08	3.02	2.25	0	7	15	10	6
1907	59.5	91	17	5.61	3.64	5.92	7.27	0.8	10	14	6	11
1908	66.1	96	24	6.91	8.16	6.77	5.79	0	12	12	10	9
1909	63.3	96	25	5.55	5.19	6.22	5.25	T.	9	15	9	7
1910	60.1	94	32	6.38	7.46	7.42	4.25	0	13	11	8	12
1911	68.8	101	27	1.46	2.45	1.10	0.84	0	5	19	7	5
1912	67.6	97	30	3.80	3.90	3.45	4.05	0	7	18	8	5
1913	65.8	101	33	2.79	3.82	3.16	1.40	0	8	16	7	8
1914	66.6	98	31	1.49	0.97	2.31	1.20	0	5	17	9	5
1915	63.7	97	30	7.72	8.34	8.11	6.70	0	12	12	7	12
1916	65.6	96	33	5.47	7.30	5.46	3.64	0	11	15	8	8
1917	58.7	91	30	4.28	4.14	5.38	3.32	0	10	15	7	9
1918	68.3	100	28	5.50	5.71	4.23	6.57	0	10	16	8	7
1919	62.0	93	35	5.74	5.65	5.96	5.61	0	13	10	10	11
1920	63.8	97	32	5.01	3.77	5.10	6.15	0	12	9	9	13
1921	66.4	102	28	3.68	3.80	3.68	3.55	0	7	17	8	6
1922	67.2	97	38	3.07	3.53	3.59	2.09	0	10	14	10	7
1923	62.7	97	25	4.68	2.45	4.40	7.18	T.	12	11	10	10
1924	58.6	96	31	4.71	3.18	5.13	5.83	0	10	13	8	10
1925	61.2	98	24	2.10	2.32	2.39	1.60	0	7	14	9	8
1926	67.0	100	29	2.78	2.42	3.34	2.58	0	7	16	9	6
1927	64.6	94	34	6.95	4.55	6.77	9.54	0	12	11	10	10
1928	65.8	95	29	2.87	2.05	3.16	3.41	0	8	16	9	6
1929	61.7	95	28	7.76	5.30	9.66	8.31	0.3	13	9	10	12
1930	64.7	95	33	3.33	3.22	3.78	2.98	0	9	16	8	7
1931	61.0	96	29	4.50	4.84	4 64	4.03	0	10	15	6	10
1932	66.1	98	31	1.80	2.44	2.03	0.93	0	6	18	9	4
1933	65.9	96	35	7.75	6.44	8.07	8.74	0	13	11	9	11
1934	69.0	110	31	1.93	1.82	2.42	1.56	0	5	21	7	3
1935	60.3	92	32	8.46	9.73	7.99	7.66	0	17	6	8	17
1936	68.8	95	32	2.52	3.07	2.95	1.54	0	7	17	10	4
1937	66.2	98	34	3.86	3.97	4.36	3.25	0	9	13	11	7
1938	65.0	94	32	6.13	5.32	7.75	5.31	0	13	9	12	10
1939	67.4	102	31	4.17	2.94	5.98	3.60	0	9	15	9	7
1940	62.7	95	30	2.44	2.44	2.40	2.48	0	8	16	9	6
1941	68.9	97	35	2.29	2.71	1.95	2.21	0	8	16	11	4
1942	63.8	97	29	5.31	5.09	5.37	5.47	0	10	11	11	9
1943	63.9	95	33	9.91	7.83	13.05	8.85	0	16	7	9	15
1944	68.4	99	27	4.44	4.29	4.12	4.91	0	12	10	13	8
1945	60.5	92	31	5.50	4.79	6.20	5.50	0	12	10	9	12
1946	61.4	87	30	6.88	5.05	6.50	9.09	0	14	10	9	12
1947	62 3	92	29	4.38	4.75	4.54	3.85	0	11	13	10	8
1948	63.9	92	33	3.50	2.97	3.85	3.69	0	10	13	9	9
Period	**64.4**	**110**	**17**	**4.80**	**4.63**	**5.21**	**4.55**	**T.**	**10**	**13**	**10**	**8**

NAT. HIST.

Climatological Data for May 1948

Stations	Counties	Elevation, feet	Temperature, in degrees Fahr.							Precipitation, in inches						Number of days				Prevailing direction of wind	Observers
			Length of record, years	Mean	Departure from the normal	Highest	Date	Lowest	Date	Length of record, years	Total	Departure from the normal	Greatest in 24 hours[4]	Date	Total snowfall, unmelted	With precip., .01 inch or more	Clear	Partly cloudy	Cloudy		
Northern Division																					
Albany	Gentry	930	7	63.0	......	87	23	37	7	19	3.00	+0.32	1.44	5-6	0	10	14	11	6	ne.	William J. Butler
Amity	DeKalb	1,007	2	63.1	......	84	20†	38	7	13	4.44	-0.81	1.43	1-2	0	8	13	8	10	se.	O. M. Colhour
Bethany	Harrison	916	53	61.6	- 0.9	84	23	36	7	55	3.75	-0.42	1.75	6	0	10	18	2	11	se.	B. A. McGregor
Brookfield	Linn	767	7	63.6	......	88	28	40	7	7	4.37	......	2.60	1-2	0	9	15	9	7	n.	G. F. Breen
Brunswick	Chariton	652	67	62.8	- 1.4	84	23†	42	7†	69	4.83	+0.22	1.45	1	0	11	16	5	10	nw.	O. K. Beuecke
Canton, Lock & Dam 20	Lewis	488	10	63.4	+ 0.8	92	20	39	3	18	2.24	-3.08	0.51	1-2	0	12	16	8	7	ne.	Lockmaster
Carrollton	Carroll	754	2	63.4	......	85	20	39	7	2	3.78	......	1.37	1-2	0	12	14	9	8	e.	Harold E. Finley
Chillicothe 2 mi ESE(C)	Livingston	771	39	62.3	- 0.6	85	23	38	7	42	2.86	-1.23	1.44	1-2	0	11	6	12	13	e.	Civil Aeronautics Adm.
Columbia	Boone	740	58	64.2	- 0.8	85	21	40	7	58	3.71	-0.75	1.65	1	0	10	10	9	12	e.	U. S. Weather Bureau
Conception	Nodaway	1,108	59	63.6	+ 1.5	85	20†	40	7	64	2.40	-1.66	1.20	1-2	0	6	12	10	9	ne.	Fr. Adelhelm Hess
Edgerton	Platte	856	28	62.2	- 0.8	86	21	34	7	45	1.95	-2.25	0.87	1-2	0	7	14	9	8	ne.	Leroy H. Mindrup
Elsberry	Lincoln	449	17	62.2	- 2.5	86	28	37	3†	17	3.45	+0.13	2.26	1	0	8	19	5	7	se.	Soil Conservation Service
Fayette	Howard	760	68	63.2	- 0.6	85	28	42	7	65	3.38	-0.94	0.95	15	0	10	16	9	6	ne.	Irvin E. Schnell
Fulton	Callaway	818	60	62.7§	- 1.9	86	21	41	7	56	2.77	-1.83	0.96	15	0	9	22	3	6	ne.	Frank E. Hillgartner
Grant City	Worth	1,134	44	62.4	+ 0.4	85	23	39	10	56	1.54	-2.69	0.71	1-2	0	9	14	8	9	e.	J. Homer Korn
Hannibal	Marion	759	56	62.0	- 1.6	84	28	41	7	64	3.91	-0.44	0.86	6	0	12	15	5	11	nw.	Hannibal Water Dept.
Kansas City Airport	Jackson	741	59	65.5	+ 0.7	87	20	43	13	59	1.72	-2.22	0.66	9-10	0	9	7	12	12	ne.	U. S. Weather Bureau
Kidder	Caldwell	1,020	56	62.0	- 0.6	85	20†	38	7	60	3.37	-1.28	1.38	1	0	10	22	1	8	se.	Mrs. Geraldine Terry
Kirksville	Adair	969	59	62.1	- 0.2	86	23	40	3†	66	2.48	-2.85	0.68	1-2	0	10	19	6	6	ne.	Dow Jones
Kirksville Airport	Adair	970	9	61.1	......	84	23	38	7	9	2.66	......	0.69	1-2	0	11	8	10	13	n.	Civil Aeronautics Adm.
Lathrop	Clinton	1,071	1	63.1[a]	......	84[a]	20	39[a]	7	1	4.28	......	1.70	1	0	11	19[b]	6[b]	4[b]	s.	E. L. Fisher
Louisiana	Pike	469	54	62.4	- 1.3	87	28	38	3†	67	1.99	-2.71	0.55	1-2	0	11	16	6	9	ne.	Stark Bro's Nurseries
Macon	Macon	875	49	62.2	- 1.3	86	28	39	7	55	2.51	-2.08	0.73	1-2	0	9	18	4	9	ne.	John W. Atwell
Maryville	Nodaway	1,169	58	61.3	0.0	85	20	36	7	54	2.68	-1.97	1.25	1-2	0	8	14	4	13	e.	R. B. Montomery
Memphis	Scotland	787	9	60.7	- 0.9	87	23	40	3†	18	2.23	-1.78	0.60	6	0	9	9	13	9	sw.	John W. Alexander
Mexico	Audrain	800	59	63.2	- 0.8	85	21†	39	7	70	2.78	-1.82	0.91	1-2	0	10	14	12	5	ne.	D. N. Woods
Moberly 3½ mi. NE	Randolph	860	11	62.9§	- 1.1	87	20	39	6†	11	1.25	-2.72	0.25	15	0	8	17	9	5	n.	Robert J. Platter
New Florence. 1 mi SE	Montgomery	885	5	61.6	......	84	28	40	3	6	2.33	......	0.74	1	0	9	8	9	14	ne.	U. S. Weather Bureau
Oregon	Holt	1,093	92	63.4	+ 0.2	85	20†	42	7	92	3.70	-0.83	2.20	1-2	0	8	13	6	12	s.	James M. Curry
Polo	Caldwell	1,000	2	62.1	......	88	26†	41	7	2	4.27	......	1.88	1-2	0	8	10	14	7	se.	F. B. Albright
St. Charles	St. Charles	520	60	65.1	+ 2.0	87	28	43	7	70	2.95	-1.33	1.09	15-16	0	11	16[a]	7[a]	7[a]	ne.	Mrs. Myrtle Bregel
St. Joseph Airport	Buchanan	957	38	64.2	0.0	86	22	39	7	76	2.88	-1.82	1.74	1-2	0	10	9	10	12	s.	U. S Weather Bureau
Salisbury	Chariton	723	2	64.0	......	88	21	41	7	2	2.74	......	1.06	1-2	0	9	20	6	5	e.	David H. Robertson
Saverton, Lock No. 22.	Ralls	472	10	62.2	- 1.2	84	23†	42	19	10	3.47	-1.94	0.82	1-2	0	13	16	9	6	nw.	Lockmaster
Shelbina	Shelby	779	7	62.6[a]	......	86[a]	23	38[a]	7	55	4.56	+0.24	1.03	1	0	10	20[a]	3[a]	7[a]	nw.	Guyman Hatcher
Steffenville	Lewis	650	50	62.0	- 1.8	86	28	39	3	55	2.06	-2.51	0.66	10	0	10	16	6	9	n.	Mrs. Fannie V. Gross
Tarkio	Atchison	916	45	61.6	- 1.0	85	20†	36	7	54	1.90	-2.64	1.02	30	0	5	8	10	13	s	Civil Aeronautics Adm.
Trenton	Grundy	822	52	63.6	+ 0.1	85	23	40	7	53	3.49	-1.21	1.47	1-2	0	9	15	11	5	n.	W. H. Estes
Unionville	Putnam	1,062	55	60.4	- 1.7	85	23	38	7	55	2.59	-2.66	0.72	1-2	0	9	14	7	10	w.	George D. Choate
Vandalia	Audrain	766	4	61.0	......	83	23†	39	3	9	3.00	......	1.45	2	0	8	17	9	5	e.	Mrs. Naomi K. Stoutz
Warrenton	Warren	880	66	62.0	- 2.9	87	21	39	3†	58	3.12	-1.28	1.09	15	0	9	12	14	5	ne.	W. T. Zimmerman
Keokuk, Iowa	Lee, Ia.	574	76	62.6	- 1.2	84	23	43	3	76	2.17	-1.76	0.68	5-6	0	12	15	6	10	ne.	U. S. Weather Bureau
Division means	**and extremes**	....	..	**62.6**	**- 0.7**	**92**	**20**	**34**	**7**	..	**2.97**	**-1.66**	**2.60**	**1-2**	**0**	**10**	**14**	**8**	**9**	**ne.**	
Southwestern Division																					
Anderson 1½ mi SW	McDonald	1,000	44	62.6	- 3.1	90	13	33	7	49	6.05	+0.30	2.03	10	0	11	19	3	9	sw.	Samuel G. Chamberlain
Appleton City	St. Clair	800	53	65.0	0.0	89	1†	41	7	56	2.79	-2.01	1.55	10	0	11	19	5	7	sw.	F. Paul Eye
Bolivar	Polk	1,071	45	64.4	- 0.4	87	1†	41	7	53	3.85	-1.50	1.77	10	0	11	13	11	7	sw.	Southwest Baptist College
Boonville	Cooper	650	10	63.0	- 0.4	84	21	42	7	71	3.79	-0.82	0.85	1-2	0	10	13	9	9	e.	Boonville Water Dept.
Butler	Bates	865	2	64.6	......	88	21	37	7	7	2.31	......	1.34	10	0	10	14	8	9	e.	Harley W. Johnson
Camdenton	Pulaski	940	2	65.6	......	90	21	41	7	2	2.66	......	0.97	10	0	7	13	11	7	sw.	Mo. Conservation Com.
Caplinger Mills	Cedar	764	0	65.0	......	89	21	38	7	22	3.83	-1.04	1.32	10	0	11	12	15	4	ne.	Sherman E. Price
Carthage	Jasper	962	14	66.0	......	89	1	87	7	24	4.54	......	2.04	15	0	10	10	19	2	n.	Carthage W. and E. Plant
Clinton	Henry	786	55	64.1	- 1.4	89	21	42	7	61	4.19	-0.64	1.82	23	0	7	12	9	10	n.	U. S. Weather Bureau
Eldon	Miller	934	53	64.2	0.0	87	21	44	7	49	3.50	-0.80	1.36	1-2	0	8	13	12	6	sw.	Arthur Rothwell
Harrisonville	Cass	904	70	64.0	+ 0.2	88	21	43	7	73	3.66	-0.77	1.49	9-10	0	11	16	5	10	s.	Jeffrey B. Patterson
Jefferson City	Cole	557	58	62.4	- 2.3	86	21	38	7	66	3.54	-0.87	1.36	15	0	10	14	7	10	sw.	K. W. O. S. Radio Farm
Joplin Airport	Jasper	988	26	66.2	- 0.1	89	21†	42	7	43	2.52	-2.84	0.94	10	0	10	5	8	18	s.	Civil Aeronautics Adm.
Kansas City Univ.	Jackson	908	10	65.4	+ 0.4	86	20†	38	7	10	1.68	-2.87	0.72	9-10	0	10	15	10	6	s.	University of Kansas City
Lakeside	Miller	595	17	63.2	- 2.9	88	21	38	7	17	3.09	-1.18	0.80	10	0	12	..	..	..	se.	W. S. Frame
Lamar	Barton	980	60	62.7	- 2.9	87	21	38	7†	67	3.79	-1.47	1.26	3-4	0	8	17	5	9	sw.	Mrs. Marie Mann
Lebanon	Laclede	1,265	60	62.5	- 2.4	88	1	38	7	61	5.11	-0.10	1.33	23	0	11	10	7	14	se.	Mrs. Rosa E. Montelius
Lexington	Lafayette	688	63	64.9	+ 0.5	86	9†	43	7	64	3.11	-1.85	1.10	9-10	0	8	7	16	8	e.	William H. Cullon
Lockwood	Dade	1,078	42	65.6	+ 1.2	88	21	41	7	52	4.21	-1.11	1.75	3-4	0	10	15	9	7	se.	Hubert A. Nieman
Marshall	Saline	779	61	....	......	..	..	..	..	58	....	......	....	..	0	..	.	..	..	......	Thomas A. Reid
Marshfield	Webster	1,484	3	64.2	......	86	1	40	7	7	4.76	......	1.29	10	0	12	13	4	14	ne.	Sho-Me Power Co.
Monett	Barry	1,317	1	63.2	......	84	1	41	7	1	6.28	......	2.55	15	0	7	19	5	7	s.	Mo. Univ. Fruit Exp. Sta.
Mountain Grove	Wright	1,463	47	64.0	+ 0.2	88	21	40	7	51	3.34	-1.12	0.75	10	0	13	15	15	1	se.	Mo. Fruit Exp. Station
Mount Vernon	Lawrence	1,174	36	....	......	..	..	..	..	48	....	......	....	..	....	..	..	..	..	......	John C. Heying
Neosho	Newton	1,011	61	65.8	- 0.2	88	22	35	7	65	4.51	-1.05	1.93	10	0	13	15	11	5	se.	U. S Fisheries Station
Nevada	Vernon	862	55	65.8	+ 1.3	90	21	38	7	56	3.26	-1.67	1.52	10	0	8	11	10	10	ne.	Henry Kraft
Ozark Beach	Taney	700	8	66.8	......	92	21	40	7	23	3.22	-2.00	0.92	5	0	10	16	7	8	w.	Empire District Elec. Co.
Sedalia	Pettis	910	35	64.0	- 1.3	84	21	39	7	37	5.27	+0.73	2.15	1-2	0	10	15	10	6	nw.	Dr. J. E. Cannaday
Seligman	Barry	1,542	47	64.2	- 0.3	83	1†	38	7†	45	4.38	-1.06	1.77	10	0	7	17	6	8	se.	Floyd E. Fawver
Seymour 4 miles NE	Webster	1,642	42	....	......	..	..	..	..	42	....	......	....	..	0	..	..	..	..	......	Ira H. Hailey
Springfield 4 mi. NW	Greene	1,265	60	63.2	- 0.5	86	21	40	7	60	3.48	-1.71	1.49	10	0	9	6	8	17	e.	U. S. Weather Bureau
Sweet Springs	Saline	700	7	63.4	......	86	21	38	7	7	5.42	......	2.13	9-10	0	10	13	13	5	s.	H. F. Nelson
Warrensburg	Johnson	878	61	65.9	+ 0.9	87	21	43	7	68	4.86	-0.36	2.01	10	0	8	16	8	7	nw.	Central Teachers College
Warsaw	Benton	687	47	64.9	- 0.6	89	21	36	7	53	3.68	-1.32	1.30	1	0	10	11	9	11	se.	Dora B. Johnson
Wasola	Ozark	1,294	7	65.4	......	89	21	41	7	8	3.57	......	0.92	5	0	9	17	9	5	e.	A. W. Pinckney
Waynesville 1¼ mi. E	Pulaski	805	2	....	......	..	..	..	..	2	....	......	....	..	....	..	..	..	..	......	Fred M. Sanderson
Division means	**and extremes**	....	..	**64.4**	**- 0.5**	**92**	**21**	**33**	**7**	..	**3.85**	**-1.36**	**2.55**	**15**	**0**	**10**	**14**	**9**	**8**	**sw.**	
Southeastern Division																					
Advance ¼ mile W	Stoddard	354	11	64.8	- 1.0	89	21	40	5	11	3.56	-0.71	1.30	12	0	10	11	7	13	n.	U. S. Weather Bureau
Arcadia	Iron	926	67	61.8	- 2.3	90	21	34	6	70	5.29	+1.05	2.62	15-16	0	9	12	2	17	e.	Arcadia College
Birch Tree ½ mile E	Shannon	1 000	53	63.2[f]	- 1.8	88[f]	21†	40[f]	7†	54	4.60	+0.25	1.22	1-2	0	8	8[f]	5[f]	12[f]	n.	Mrs. Mildred E. Catlett
Black 9 miles NW	Iron	1,000	55	62.4[l]	- 1.6	89[k]	1	33[n]	6	55	4.02	-0.49	1.50	15	0	9	13[c]	5[c]	8[c]	......	J. Cornell Shy
Campbell	Dunklin	314	22	67.8	+ 0.3	88	21	43	7	22	2.63	-2.38	0.85	2	0	9	15	15	1	n.	Mrs. Ruth Christian
Cape Girardeau	Cape Girardeau	347	3	66.4	......	92	21	43	7	48	5.36	+1.29	1.85	15-16	0	8	9	13	9	n.	State Teachers College
Caruthersville	Pemiscot	265	52	69.6	- 0.2	88	21	46	7	56	2.07	-2.37	0.86	2	0	7	16	11	4	ne.	Victor T. Malloure
Clearwater Dam	Wayne	648	2	64.8	......	88	21	38	7	2	3.49	......	0.77	15-16	0	8	18	5	8	n.	U. S. Engineer Office
Crystal City	Jefferson	420	14	65.2	0.0	88	21	42	8†	14	3.12	-1.04	0.89	10-11	0	9	7	10	14	se.	Richard K. Ragland
Doniphan	Ripley	344	44	66.2	- 0.3	90	21	37	7	44	2.60	-1.76	0.72	11	0	8	17	7	7	sw.	Boyce Lackey
Farmington	St. Francois	896	37	62.2	- 1.5	87	21	39	5	51	6.85	+1.78	3.75	15	0	10	8	6	17	ne.	F. M. Karsch
Greenville 1 mile SW	Wayne	415	39	64.4	- 1.5	90	21	38	7	41	3.41	-0.77	0.99	12	0	9	8[a]	18[a]	4[a]	w.	C. L. Rubottom
Jackson	Cape Girardeau	428	57	66.5	+ 0.9	92	21	40	5	58	5.60	+1.33	3.63	15-16	0	7	12	9	10	nw.	Danny Siebert

Continued on next page

Climatological Data for May 1948—Continued from preceding page

Stations	Counties	Elevation, feet	Temperature, in degrees, Fahr. — Length of record, years	Mean	Departure from the normal	Highest	Date	Lowest	Date	Precipitation, in inches — Length of record, years	Total	Departure from the normal	Greatest in 24 hours [4]	Date	Total snowfall, unmelted	Number of days — With precip., .01 inch or more	Clear	Partly cloudy	Cloudy	Prevailing direction of wind	Observers
Southeastern Division—	*Concluded*																				
Koshkonong	Oregon	958	47	66.5	− 0.1	88	21	42	7	48	3.90	−0.65	1.06	10	0	10	15	5	11	s.	Mrs. Genevieve T. Smith
Licking...... 4 miles N	Texas	1,170	11	62.4§	− 2.0	85	21†	37	7	11	4.29	−0.84	1.45	23	0	9	16[a]	1[a]	13[a]	s.	Fern E. Austin
Marble Hill	Bollinger	532	53	63.7	− 1.9	89	21	35	5	55	6.09	+1.60	1.65	12	0	8	17	11	3	s.	R. A. DeWitt
Poplar Bluff	Butler	339	43	67.4	− 0.1	91	21	43	8	44	2.84	−1.68	0.99	12	0	9	17	5	9	s.	Osmon M. Richardson
Rolla	Phelps	1,202	48	62.0	− 2.5	87	21	40	7	64	4.15	−0.60	0.95	3–4	0	10	12	12	7	ne.	Rolla School of Mines
St. Louis:																					
City Office		465	111	65.3	− 1.7	85	28	47	7	111	3.17	−1.17	0.78	4	0	9	9	11	11	ne.	**Section Center**
St. Louis Airport	St. Louis	556	11	64.0	− 1.8	85	21	45	7	17	2.44	−1.48	0.97	15	0	9	6	8	17	nw.	U. S. Weather Bureau
St. Louis University	St. Louis City	578	36	65.2	− 0.5	84	10†	46	7	36	3.10	−1.09	0.82	4	0	9	23	3	5	se.	St. Louis University
Salem	Dent	1,206	44	62.4	− 2.1	88	1	40	7†	47	4.89	+0.38	1.68	15	0	12	12	14	5	s.	E. E. Martin
Sikeston	Scott	318	41	67.1	− 1.4	88	29	43	7	51	2.06	−2.18	0.56	15	0	8	11	14	6	nw.	Mrs. Lucy W. Humphreys
Union ....1½ mi. SE	Franklin	520	10	62.4	− 2.3	88	21	40	8	31	2.27	−2.27	0.70	15	0	9	8	15	8	nw.	Cornelius Sicges
Vichy ....2 mi. NW	Maries	1,125	12	62.8	......	87	21	42	7	13	3.25	......	1.18	15	0	11	7	11	13	nw.	Civil Aeronautics Adm.
Wappapello Dam	Butler	475	9	66.4	0.0	89	21	44	8	9	2.96	−1.55	0.73	12	0	9	22	3	6	nw.	U. S. Engineer Office
Webster Groves	St. Louis	507	2	64.0	......	87	21	42	3	3	3.36	......	1.04	15	0	10	14	7	10	nw.	R. W. Lawrie
Weingarten	St. Genevieve	833	7	62.4	......	81	1†	42	28	8	6.47	......	3.75	15	0	7	10	17	4	n.	William J. Miller
West Plains	Howell	1,005	11	63.0	− 1.6	88	21	39	7	11	3.49	−1.49	0.93	23	0	9	8	8	15	ne.	U. S. Weather Bureau
Willow Springs 500 ft E	Howell	1,238	7	64.0	......	85	1†	40	7	41	3.33	−1.27	0.98	23	0	9	12	8	11	s.	Allen Frazee
Cairo, Ill.	Alexander, Ill.	314	76	68.4	− 1.0	90	21	49	7	77	1.97	−1.74	0.90	15–16	0	9	9	9	13	ne.	U. S. Weather Bureau
Division means	**and extremes**	.....	..	**64.7**	**− 1.1**	**92**	**21**	**33**	**6**	..	**3.69**	**−0.86**	**3.75**	**15**	**0**	**9**	**12**	**9**	**10**	**nw.**	
State means	**and extremes**	.....	..	**63.9**	**− 0.5**	**92**	**20†**	**33**	**6†**	..	**3.50**	**−1.30**	**3.75**	**15**	**0**	**10**	**13**	**9**	**9**	**ne.**	

The departures from normal temperature are computed from the averages of the entire period for stations having 10 or more years of record. Departures of precipitation for stations with 15 years or more of record are computed from a normal or "standard mean", adjusted to a uniform 35-year period; for stations of 10 to 14 years the means for the period of record are used. The normal may be found by adding the departures when minus (−) or subtracting when plus (+). Figures and letters following stations indicate distance in miles and direction of station from the city Post Office, unless otherwise indicated. T. Trace or 0.005 inch or less. [a], [b], [c], etc., number of days missing; for example, [b], indicates two days missing. Italics data interpolated. § Partly interpolated. † And other dates. ‡ Received too late to be included in means and summaries. [4] Best available used for stations not equipped with recorders. Post office address of: Altona is Adrian; Clearwater Dam is Piedmont; Crane Mountain is Arcadia; East End is Goodland; Hailey is Cassville; High Lookout is Birch Tree; Macedonia Lookout is Doniphan; Oates Tower is Centerville; Perry is Center; Pineview Lookout is Cape Fair; Sugar Camp Lookout is Seligman; Topaz is Cabool; Wilderness Lookout is Lampe. (C) Airport. ¶ Indicates plus.

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Small grains made very good progress during the month and prospects for a larger than average crop, particularly wheat, were excellent. Wheat was heading and in the southern portion of the State was beginning to ripen by the close of the month. Oats also were beginning to head, particularly over the southern part of the State, at the end of May and although the crop was planted late it made very good growth during the month and was in good condition at the close. Pastures and meadows were rather slow in getting started during April and the first half of May, but improved rapidly the latter half and were in good condition at the end of the month, but needing rain. First cuttings of alfalfa and clover hay were made during May, but this work was hampered by showers the first half of the month, while the latter half was very favorable for hay harvest. Corn planting was mostly completed during the month, over much of the State, and the crop came up to a good stand, but some replanting was necessary because of cut worms and soil erosion. Cultivation of the early planted corn corp was in progress the latter part of the month. Nearly one-half of the soybean crop had been planted by the end of May, for the State as a whole, while in some sections nearly two-thirds of that crop had been planted. Cotton planting was completed early in the month in the southeastern counties of the State and chopping and cultivation was in progress at the close; the crop made good progress throughout the month. Fruits were not too promising and, as a rule, were not expected to produce as large a crop as last year. Strawberries ripened and were mostly marketed by the end of the month. In the commercial growing areas, in the southern half of the State, the crop was fairly good, but in the northern half it was generally poor. General soaking rains were needed for best growth and development of most crops, grasses, and gardens at the close of May. —M. R. W.

TEMPERATURE

The monthly mean for the State, 105 stations reporting, was 63.9°, or 0.5° cooler than the 61-year May average. The highest monthly mean was 69.6° at Caruthersville, and the lowest was 60.4° at Unionville. The highest reported was 92° at Canton on the 20th and at Ozark Beach, Cape Girardeau, and Jackson on the 21st, and the lowest was 33° near Black on the 6th and near Anderson on the 7th.

PRECIPITATION

The average for the State, 207 stations reporting, was 3.50 inches, or 1.30 inches less than the 61-year May average. The greatest monthly amount was 6.85 inches at Farmington and the least was 1.25 inches at Moberly. The greatest amount reported in 24 hours was 3.75 inches at Farmington and Weingarten on the 15th. The average number of days with 0.01 inch, or more, was 10.

There was no snowfall reported anywhere in the State.

MISCELLANEOUS PHENOMENA

Auroras.—2d, 15th.

Floods.—In Mississippi River, at Cairo, Ill., and below, continued from March to May 3d. In St. Francis River, at Fisk,

Fogs.—Heavy, 3d, 4th, 5th, 11th, 12th, 13th, 15th, 16th, 24th.

Frosts.—Light, 7th, 8th.

19th to 20th.

Hail.—Light, 1st at New Florence, Bolivar, Butler, Harrisonville, Jefferson City, Lockwood, Marshfield, Pierce City, Sedalia, Springfield, High Lookout, St. Louis; 2d at Martinsburg, Fremont Lookout, High Lookout, Jackson, Parma, Sikeston, Webster Groves, Lakeside; 3d at Springfield; 5th at Anderson; 9th at St. Joseph; 10th at Butler and High Lookout; 15th at Amity, Shelbina, Warrenton, Anderson, Granby, Monett, Pierce City, Roby; 23d near Sullivan. Moderate, 1st at Columbia, Warrenton, Altona, Eldon, Joplin Airport, St. Louis Airport, Fulton; 2d at Caruthersville; 3d at Lockwood and Koshkonong; 10th at Shelbina and Sweet Springs. Heavy, 1st at St. Thomas, Woolridge, and southern third of Cooper county; 3d at Butler; 15th, 6 miles east and 12 miles south of Amity, and at Wilderness Lookout. (See storm table for details and damage).

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Daily Precipitation for May 1948

Stations	Drainage-basins	Day of month																															Total
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Northern Division																																	
Albany	Grand	....	1.08	T.	.01	.29	1.15	....	.04	....	.22	.02	....	T.	.11	.06	....	....	....	....	....	T.	....	....	....	....	....	....	....	....	.02	....	3.00
Amity	do	....	1.43	T.	.02	.17	.43	....	.03	....	.45	T.	....	T.	T.	1.15	....	....	....	....	....	....	....	.76	....	....	....	....	....	....	T.	....	4.44
Auxvasse	Missouri	T.	1.23	....	.28	.23	.08	....	....	....	.49	T.	.21	....	T.	.49	....	....	....	....	....	....	....	.50	....	....	....	....	....	....	....	....	3.46
Bethany	Grand	....	1.06	....	.05	.25	1.75	....	.07	....	.25	.03	.02	....	.12	.15	....	....	....	....	....	T.	....	....	....	....	....	....	....	....	....	....	3.75
Bowling Green²	Mississippi	.04	.66	....	.30	....	.14	.23	....	....	....	.19	.15	....	....	.41	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	2.12
Brookfield²	Grand	.03	2.60	....	.17	....	.17	.15	....	....	.53	.20	.05	....	....	.47	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	4.37
Browning.....3 mi. NE	do	....	1.06	T.	.23	.14	.49	....	.04	....	.65	.08	.02	....	.20	.21	....	....	....	....	....	T.	....	....	....	....	....	....	....	....	T.	....	3.12
Brunswick²	do	T.	1.45	....	.18	....	.38	.12	....	T.	.43	.28	.08	....	....	.60	.08	....	....	....	....	....	T.	1.05	.18	....	....	....	....	....	....	....	4.83
Canton, Lock No. 20²	Mississippi	T.	.51	.05	.07	....	.25	.23	....	.05	.27	.12	.21	.01	....	.12	....	....	....	....	....	....	.30	....	....	....	....	....	....	....	....	....	2.24
Carrollton	Missouri	....	1.37	....	.14	.11	.20	....	.02	....	.80	.04	.03	....	.02	.70	....	....	....	....	....	.01	....	.34	....	....	....	....	....	....	....	....	3.78
Centralia²	Mississippi	.08	.71	....	.29	....	.20	....	....	....	.24	.37	.21	....	....	.17	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	2.27
Chillicothe²......(B)	Grand	.21	1.56	....	.26	....	.21	.26	....	.01	.61	.11	.06	....	....	.20	....	....	....	....	....	....	....	.02	....	....	....	....	....	....	....	....	3.51
Chillicothe³ 2mi ESE(C)	do	.95	.49	.12	.01	.15	.18	....	.01	T.	.67	.05	T.	....	.09	.14	....	....	....	....	....	T.	....	....	....	....	....	....	....	....	T.	....	2.86
Columbia¹, ⁵	Missouri	1.65	T.	.05	.16	.40	.03	....	T.	....	.80	.05	.13	....	T.	.31	....	....	....	....	....	....	....	.13	....	....	....	....	....	....	T	....	3.71
Columbia ⁵..9 mi. WNW	do	....	1.83	....	.30	.35	.24	....	....	....	.72	.11	.10	....	T.	.43	....	....	....	....	....	....	....	.18	....	....	....	....	....	....	....	T.	4.26
Conception	do	....	1.20	....	....	.22	.55	....	....	....	.16	....	....	T.	T.	.24	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.03	....	2.40
Edgerton²	do	....	.87	....	....	....	.08	....	....	T.	T.	.52	.05	T.	.12	....	....	....	....	....	....	....	....	....	.26	....	....	....	....	....	....	.05	1.95
Edina²	Mississippi	....	.55	T.	.08	....	.18	.33	....	....	.11	.20	.13	T.	....	.45	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	2.03
Elsberry S. C. S.²	do	.33	1.93	....	.38	....	.09	.08	....	....	....	.24	.05	....	....	.35	....	....	....	....	....	....	T.	....	....	....	....	....	....	....	....	....	3.45
Fayette	Missouri	....	.83	T.	.12	.18	.32	....	T.	....	.71	.01	.04	....	.04	.91	....	....	....	....	....	....	....	.22	....	....	....	....	....	....	T.	....	3.38
Fulton²	do	....	.60	....	.33	....	.29	.02	....	....	.01	.30	.17	....	....	.96	....	....	....	....	....	....	....	.09	....	....	....	....	....	....	....	....	2.77
Gallatin²	Grand	.09	1.41	....	T.	....	.69	....	....	*.03*	.54	.05	.04	....	....	.13	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	2.98
Grant City	do	....	.71	....	.09	.20	....	....	.03	T.	.06	.03	....	....	.05	.25	....	....	....	....	....	T.	....	....	....	....	....	....	....	....	.12	....	1.54
Hannibal¹.........(A)	Mississippi	.74	.26	.05	.38	.15	.86	....	.03	....	.28	.05	.40	....	.04	.67	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	3.91
Hannibal².........(B)	do	.52	.86	....	.32	....	.12	.80	....	....	.05	.13	.39	T.	....	.72	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	T.	3.91
Kahoka²	do	*T.*	.50	.07	.24	....	.48	.20	....	.05	.16	.20	.16	.02	....	.03	....	....	....	....	....	....	.12	....	....	....	....	....	....	....	....	....	2.23
Kansas City Airport¹, ⁵	Missouri	.55	T	.07	....	.14	T	....	T.	.02	.64	.02	....	....	.13	T.	....	....	....	....	....	T.	....	.06	....	....	....	....	....	....	.09	....	1.72
Kidder²	Grand	.01	1.38	....	.06	....	.29	....	....	....	.57	.05	.02	....	....	.61	....	....	....	....	....	....	....	.36	.02	....	....	....	....	....	....	....	3.37
King City	Missouri	....	1.84	T.	....	.20	.54	....	.11	T.	.32	.01	....	T.	T.	....	....	....	....	....	....	....	....	....	....	....	....	....	....	T	....	....	3.02
Kirksville	Mississippi	....	.68	....	.29	.13	.60	....	.06	....	.41	.05	.08	....	.04	.14	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	2.48
Kirksville Airport³, ⁵	do	.49	.20	.23	.01	.26	.52	....	.05	T.	.37	.08	.04	....	T.	.41	....	....	....	....	....	T.	....	....	....	....	....	....	....	....	....	T.	2.66
LaBelle²	do	....	.60	....	.10	....	.17	....	.33	.03	.10	.20	.17	T.	....	.27	....	....	....	....	....	....	....	....	....	....	....	....	....	....	T.	....	1.97
Lathrop	Grand	....	1.70	.05	....	.09	....	....	....	....	.70	.02	.01	.06	.06	.46	....	....	....	....	....	....	....	1.09	....	....	....	....	....	....	.04	....	4.28
Linneus	do	.11	2.11	....	.30	.09	.20	....	.03	....	.59	.05	.05	....	.25	.18	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	§3.96
Louisiana ....(A)	Mississippi	.20	.55	....	.34	.05	.20	.03	....	....	.18	.04	.06	....	.05	.29	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	T.	1.99
Louisiana².........(B)	do	.16	.65	....	.34	....	.11	.14	....	....	....	.12	.06	....	....	.44	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	2.02
Lucerne²	Grand	....	.57	....	.08	....	2.07	T.	....	....	.47	.04	T.	....	....	.19	....	....	....	....	....	....	T.	....	....	....	....	....	....	....	....	....	3.42
Macon²	Chariton	.35	.73	....	.11	....	.18	.18	....	T.	.23	.17	.04	....	....	.52	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	2.51
Madison²	Mississippi	....	1.02	....	.28	....	.23	....	....	.66	.38	....	....	....	....	.43	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	3.00
Martinsburg²	Missouri	T.	.95	T	.28	....	.19	.15	....	T.	.01	.36	.18	....	....	.35	T.	....	....	....	....	....	....	....	T.	....	....	....	....	....	....	T.	2.47
Maryville	do	....	1.25	....	....	.18	.76	....	T.	....	.05	....	....	.06	....	.21	....	....	....	....	....	....	....	.06	....	....	....	....	....	....	.11	....	2.68
Memphis²	Mississippi	T.	T.	....	.24	....	.56	.60	....	.02	.15	.24	.14	T.	....	.16	....	....	....	....	....	....	.12	....	....	....	....	....	....	....	....	T.	2.23
Mexico²	do	.04	.91	....	.41	....	.24	.20	....	....	.18	.49	.11	.02	....	.18	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	2.78
Milan²	Grand	....	.73	....	.22	....	1.02	T.	....	....	.46	.21	....	....	....	.42	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	3.06
Moberly² ....3½ mi. NE	Mississippi	.12	.15	....	.19	T.	.10	T.	....	T.	.14	.20	.10	....	....	.25	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1.25
Monroe City	do	.58	.76	....	.37	T.	.44	....	T.	....	.65	.06	.19	....	.14	.20	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	3.39
New Florence³, ⁵ 1 mi SE	Missouri	.74	T.	.01	.32	.17	.11	....	T.	....	.43	.01	.08	....	T.	.46	....	....	....	....	....	....	....	T.	....	....	....	....	....	....	....	....	2.33
Oregon ¹	do	1.10	1.10	....	....	.13	.52	....	.02	....	.06	....	....	....	....	.55	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.22	....	3.70
Palmyra²	Mississippi	.44	.65	.01	.30	....	.16	.40	....	....	.30	.37	*	.33	....	.37	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	3.33
Paris²	do	.03	.45	....	.28	....	.20	.24	....	....	.31	.34	T.	....	....	.48	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	2.33
Perry ....1 mile E	do	.20	.75	....	.20	.02	.05	....	....	....	.42	....	.03	....	.03	.28	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1.98
Philadelphia	do	.15	.75	....	.28	.07	.23	....	.02	....	.46	.07	.26	....	.15	.20	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	2.64
Polo³	Missouri	.08	1.88	....	.23	....	.20	....	....	T.	.68	.05	T.	....	....	.58	....	....	....	....	....	....	....	....	.57	....	....	....	....	....	....	T.	4.27
St. Charles²	do	.11	.44	T.	.40	.08	.07	.11	....	....	....	.56	.05	.04	....	.85	.24	....	....	....	....	....	T.	....	....	....	....	....	....	....	....	....	2.95
St. Joseph Airport¹, ⁵	do	1.01	.73	T.	....	.22	.17	....	.03	.08	.35	T.	....	.01	....	.22	....	....	....	....	....	T.	....	T.	....	....	....	....	....	T.	.06	....	2.88
Salisbury	Chariton	....	1.06	....	.15	.11	.52	....	T.	....	.58	.04	.05	....	.02	.21	....	....	....	....	....	....	....	T.	....	....	....	....	....	....	....	....	2.74
Saverton, Lock No. 22²	Mississippi	.47	.81	.01	.42	....	.11	.29	....	.01	.06	.20	.28	.01	....	.79	....	....	....	....	....	....	T.	....	....	....	....	....	....	....	....	.01	3.47
Shelbina	do	1.03	.62	....	.26	....	.85	....	.02	....	.93	.33	.15	....	.14	.23	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	4.56
Shelbyville	do	....	.61	....	.18	.25	.38	....	....	....	.89	.13	....	....	.18	.36	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	2.98
Steffenville	do	....	.60	....	.08	.08	.20	....	.01	....	.63	.03	.12	....	.09	.22	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	2.06
Tarkio⁴	Missouri	.15	.17	T.	....	.38	T.	....	....	T.	T.	T.	....	T.	....	.18	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1.02	....	1.90
Trenton²	Grand	T.	1.47	....	.07	T.	.90	.05	T.	.05	.60	.06	.04	....	....	.25	....	....	....	....	....	....	T.	....	....	....	....	....	....	....	....	....	3.49
Troy³	Mississippi	....	1.26	....	.50	....	.20	.05	....	....	....	.30	.02	T.	....	.26	.01	....	....	....	....	....	....	....	1.10	....	....	....	....	....	....	....	3.70
Unionville²	Chariton	T.	.72	....	.12	....	.52	.37	....	T.	.35	.17	.11	....	....	.18	....	....	....	....	....	....	.05	....	....	....	....	....	....	....	....	T.	2.59
Vandalia²	Mississippi	.10	1.45	....	.33	....	.10	.12	....	....	.45	T.	.25	....	....	.20	....	....	....	....	....	....	T.	....	....	....	....	....	....	....	....	....	3.00
Warrenton	do	....	.98	....	.34	.17	.06	....	....	....	.35	.06	.07	....	....	1.06	.03	....	....	....	....	....	....	T.	....	....	....	....	....	....	....	....	3.12
Keokuk, Iowa¹	do	.35	.28	.02	.03	.34	.44	....	.02	....	.36	.02	.17	....	.07	.07	....	....	....	....	....	T.	....	....	....	....	....	....	....	....	....	....	2.17
Southwestern Division																																	
Altona²	Osage	....	.90	....	.14	T.	.14	....	....	....	1.25	.33	.03	....	....	....	....	....	....	....	....	....	....	.22	.13	....	....	....	....	....	....	....	3.14
Anderson² ...1½ mi. SW	Neosho	....	.64	.34	.04	....	.75	....	....	....	.41	1.62	.15	....	....	....	1.82	....	....	....	....	....	....	.03	.22	.03	....	....	....	....	....	....	6.05
Appleton City	Osage	.05	.50	.20	.26	.03	.01	....	....	....	1.55	.03	.03	....	....	....	....	....	....	....	....	....	....	.07	.06	....	....	....	....	....	....	....	2.79
Ava Ranger Station²	White	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Bolivar	Osage	.02	.24	.09	.52	.03	.01	....	....	....	1.77	.02	.02	....	....	.30	....	....	....	....	....	....	....	.83	....	....	....	....	....	....	....	....	3.85
Boonville² ....(A)	Missouri	....	.85	....	.40	....	.43	.02	....	....	.57	.44	.07	....	....	.55	.02	....	....	....	....	....	....	.44	....	....	....	....	....	....	....	....	3.79
Boonville² ....(B)	do	....	1.02	....	.38	....	.47	....	....	....	.55	.43	.04	T.	....	.49	.02	....	....	....	....	....	....	.47	.10	....	....	....	....	....	....	....	3.97
Bradleyville²	White	....	.41	....	.46	....	.74	....	....	....	.16	.88	.15	....	....	....	.51	....	....	....	....	....	.09	....	.16	....	....	....	....	....	....	....	3.56
Buffalo²	Osage	.25	.41	....	.65	....	.19	....	....	....	.14	.77	.12	T.	....	....	.43	....	....	....	....	....	....	.15	.70	....	....	....	....	....	....	....	3.81
Butler	do	....	.31	.02	.32	.07	....	....	....	....	1.34	.02	....	....	....	T.	....	....	....	....	....	.02	....	.04	.15	....	....	....	....	....	.02	....	2.31
Camdenton	do	....	.47	....	.14	....	.14	....	....	....	.97	....	.13	....	....	.34	....	....	....	....	....	....	....	.47	....	....	....	....	....	....	....	....	2.66
Caplinger Mills	do	.33	.34	.23	.33	T.	.23	....	....	....	1.32	.06	....	....	....	.37	.02	....	....	....	....	....	....	.56	.04	....	....	....	....	....	....	....	3.83
Carthage	Neosho	....	.33	.14	.45	.15	....	....	....	....	1.13	....	.10	....	....	2.00	.04	....	....	....	....	....	....	*	.20	....	....	....	....	....	....	....	4.54
Cassville²	White	.07	.30	.33	.07	....	1.40	T.	....	....	.36	1.60	....	....	....	....	.54	....	....	....	....	....	....	.02	.79	.02	....	....	....	....	....	....	5.50
Chadwick²	do	....	.30	.18	.43	....	.58	....	....	....	.12	1.02	.22	....	....	....	.59	....	....	....	....	....	1.05	....	.17	....	....	....	....	....	....	....	4.66
Clinton³	Osage	.57	....	.29	....	.13	....	....	....	....	1.27	.06	T.	....	....	.05	....	....	....	....	....	....	....	1.82	....	....	....	....	....	....	T.	....	4.19
Concordia	Missouri	....	*1.29*	*.10*	.10	.48	.09	....	....	....	1.90	....	....	....	....	.43	....	....	....	*T.*	....	T.	....	.07	....	....	....	....	....	....	T.	....	§4.46
Crocker	Osage	....	.65	.42	....	.08	.14	....	....	....	.70	....	....	....	....	1.01	....	....	....	....	....	....	....	1.31	....	....	....	....	....	....	....	....	4.31
Eldon	Missouri	....	1.36	....	.23	.07	.03	....	....	....	.74	T.	.11	....	....	.46	....	....	....	....	....	....	....	.50	....	....	....	....	....	....	....	....	3.50
Eldorado Springs	Osage	....	.50	.20	.32	.04	....	....	....	....	1.13	.05	.13	....	....	.02	....	....	....	....	....	.08	....	.80	.13	....	....	....	....	....	T.	....	3.40
Elijah ²	White	....	.25	....	.20	....	.75	....	....	....	....	.65	.20	....	....	....	....	....	....	....	....	....	....	.75	....	....	....	....	....	....	....	....	2.80
Forsyth²	do	.20	.15	T.	.70	....	.80	....	....	....	.03	.85	.15	....	....	....	.05	....	....	....	....	....	1.10	....	.05	....	....	....	....	....	....	....	4.08
Galena²	do	.08	.41	.16	.20	....	.80	.03	....	....	.08	1.17	....	....	....	....	.10	....	....	....	....	....	....	....	.13	....	....	....	....	....	....	....	3.16
Granby²	do	.11	.68	....	.20	....	.18	....	....	....	1.73	.16	.10	....	....	....	1.86	....	....	....	....	....	....	.58	.50	....	....	....	....	....	....	....	6.10
Hailey	do	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Harrisonville²	Osage	.02	1.10	....	.09	....	.32	....	T.	....	1.25	.24	.02	....	....	T.	.01	....	....	....	....	....	....	.37	.19	....	....	....	....	....	....	.05	3.66
Jefferson City² ....(A)	Missouri	....	.79	....	.29	....	.16	.01	....	....	.06	.43	.17	....	....	1.33	.03	....	....	....	....	....	....	.27	....	....	....	....	....	....	....	....	3.54
Jefferson City².....(B)	do.	.01	.76	T.	.29	....	.16	T.	....	....	.04	.45	.17	T.	....	.87	.20	....	....	....	....	....	....	.19	T.	....	....	....	....	....	....	....	3.14
Joplin Airport³	Neosho	.57	....	.53	T.	.04	....	....	....	....	.94	.05	.06	....	....	.24	....	....	....	....	....	.05	....	.02	T.	....	....	....	....	....	.02	....	2.52
Kansas City University	Missouri	....	.54	....	.06	.08	T.	....	....	....	.72	.01	....	....	.02	.01	....	....	....	....	....	T.	....	.01	.10	....	....	....	....	....	.13	....	1.68
Lakeside², ⁵	Osage	.11	.59	....	.17	....	.04	.02	....	....	.05	.75	.08	....	....	.50	.09	....	....	....	....	....	.02	.67	T.	....	....	....	....	....	....	....	3.09
Lamar²	Neosho	.59	.48	....	1.26	....	.17	....	....	....	.38	.41	T.	....	....	....	.25	....	....	....	....	....	....	....	.25	....	....	....	....	....	....	T.	3.79

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Stations	Drainage basins	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Total
Southwestern Division—	*Concluded*																																
Lebanon[2]	Osage	.37	.45	....	.74	....	.31	....	....	....	.12	1.07	.23	....	....	....	.44	....	....	....	....	....	.05	.08	1.25	....	....	....	....	....	....	....	5.11
Lexington[2]	Missouri	T.	.99	....	.18	....	.26	....	T.	....	.92	.18	.04	....	T.	.44	....	....	....	....	....	....	....	....	.10	....	....	....	....	....	....	T.	3.11
Lockwood[2]	Osage	.25	.20	....	1.75	.09	.02	....	....	....	.35	1.08	.10	....	....	....	.30	....	....	....	....	....	....	T.	....	.07	....	....	....	....	....	....	4.21
Mansfield[2]	White	.17	.53	....	.76	....	.56	.05	....	....	.18	.88	.24	.06	....	....	.14	....	....	....	....	....	.15	T.	.28	....	....	....	....	....	....	....	4.00
Marshall	Missouri	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Marshfield	White	....	.54	.25	.65	.12	.55	....	....	....	1.29	.05	.16	....	....	.36	.03	....	....	....	....	....	.46	.30	T.	....	....	....	....	....	....	....	4.76
Monett[2]	Neosho	....	....	.64	.25	....	.42	....	....	....	.45	1.75	T.	....	....	....	2.55	....	....	....	....	....	....	T.	.22	....	....	....	....	....	....	....	6.28
Mountain Grove[2]	Gasconade	.19	.34	*	.50	....	*	.35	....	....	.08	.75	.12	.01	....	....	.49	....	....	....	....	....	.08	....	.43	....	....	....	....	....	....	....	3.34
Mount Vernon[2]	Neosho	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Neosho	....do	....	.35	.09	.03	.38	.03	....	....	....	1.93	.05	.04	....	....	....	.41	....	....	....	....	....	.03	.02	1.14	....	....	....	....	....	.01	....	4.51
Nevada	Osage	....	.70	.21	.25	.05	....	....	....	....	1.52	.09	....	....	....	....	....	....	....	....	....	....	....	.21	.23	....	....	....	....	....	T.	....	3.26
Osceola[2]	....do	.12	.53	....	.15	....	.01	....	....	....	.53	.49	.12	....	....	T.	.01	....	....	....	....	....	....	.11	.93	....	....	....	....	....	....	....	3.00
Ozark[2]	White	.35	.43	.04	.30	....	.32	....	....	....	.12	1.00	.16	.06	....	....	.02	....	....	....	....	....	.16	....	.12	....	....	....	....	....	....	....	3.08
Ozark Beach[2]	....do	.06	.19	.87	.03	....	.92	....	....	....	.03	.73	.15	....	....	....	.13	....	....	....	....	....	....	....	.11	....	....	....	....	....	....	....	3.22
Pierce City	Neosho	....	.50	.25	....	.28	T.	....	....	....	1.97	.03	.02	....	....	*	1.16	....	....	....	....	....	....	.10	.07	....	....	....	....	....	....	....	4.38
Pineview Lookout[2]	White	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Pleasant Hill[2]	Osage	.06	1.44	....	.40	....	.28	....	....	....	1.33	.20	.02	....	....	.04	....	....	....	....	....	....	....	.08	.12	....	....	....	....	....	....	.09	4.06
St. Thomas[2]. 2¼ mi SW	....do	.13	.75	....	.20	....	T.	....	....	....	.16	.49	.17	....	....	*	.75	....	....	....	....	....	....	1.91	....	....	....	....	....	....	....	....	4.56
Sedalia	Missouri	....	2.15	....	.29	.37	.04	....	....	....	.98	.06	.07	....	....	1.05	....	....	....	....	....	.16	....	.10	....	....	....	....	....	....	T.	....	5.27
Seligman[2]	Neosho	....	.52	.19	....	....	1.36	....	....	....	.45	1.32	....	....	....	....	.04	....	....	....	....	....	....	....	.50	....	....	....	....	....	....	....	4.38
Seymour[2] ..... 4 mi. E	White	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Shell Knob[2]...3 mi. SE	....do	.12	.26	.67	.05	....	.97	....	....	....	.15	1.00	.03	T.	....	....	.89	....	....	....	....	....	....	....	.15	....	....	....	....	....	....	....	4.29
Springfield[1,5]. 4 mi. NW	Osage	.38	T.	.70	.07	.34	T.	....	....	....	1.49	T.	.02	....	....	.20	....	....	....	....	....	.17	....	.11	T.	....	....	....	....	....	....	....	3.48
Stover[2]	Missouri	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Sugar Camp Lookout[2]	White	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Sweet Springs	Missouri	....	1.40	.27	.07	.30	.12	....	....	....	2.13	.09	....	....	....	.87	....	....	....	....	....	.04	....	.13	....	....	....	....	....	....	T.	....	5.42
Tecumseh[2]. ..¼ mi. W	White	.05	.27	....	.26	....	.64	....	....	....	.06	.67	.19	....	....	....	....	....	....	....	....	....	.07	....	.75	....	....	....	....	....	....	....	2.96
Topaz[2]	....do	....	.38	....	.30	.63	....	....	....	....	.06	.67	.15	....	....	T.	....	....	....	....	....	....	.08	....	1.27	....	....	....	....	....	....	....	3.54
Vanzant[2]....3¾ mi. SE	....do	.11	.29	....	.33	....	.64	....	....	....	.12	.74	.19	....	....	....	....	....	....	....	....	....	....	....	1.21	....	....	....	....	....	....	....	3.63
Waco[2]	Spring	....	.52	....	.36	T.	....	....	....	....	.54	.41	T.	....	....	.26	....	....	....	....	....	....	.22	....	....	....	....	....	....	T.	.22	....	2.53
Warrensburg	Missouri	....	1.62	.01	.04	.35	T	....	....	....	2.01	.04	.02	....	....	.27	....	....	....	....	....	....	....	T.	....	....	....	....	....	....	T.	....	4.36
Warsaw[2]..........(A)	Osage	....	1.30	....	.30	....	.07	....	....	....	.35	.45	.25	....	....	.12	.05	....	....	....	....	....	....	.30	.49	....	....	....	....	....	....	T.	3.68
Warsaw[2]..........(B)	....do	.09	1.33	....	.31	....	.06	....	....	....	.23	.42	.18	....	....	.11	....	....	....	....	....	....	....	.22	.44	....	....	....	....	....	....	....	3.39
Wasola[2]	White	.11	.26	....	.69	....	.92	....	....	....	.10	.70	.28	....	....	T.	....	....	....	....	....	....	.02	....	.49	....	....	....	....	....	....	....	3.57
Waverly[2]	Missouri	.09	1.05	....	.24	....	.41	.01	....	.02	.74	.23	.05	.01	....	.49	....	....	....	....	....	....	.02	.08	.10	....	....	....	....	....	....	....	3.54
Waynesville...1½ mi. E	Gasconade	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Wilderness Lookout[2]	White	.03	.30	*	.41	....	1.12	....	....	....	.13	1.01	.14	....	....	....	.69	....	....	....	....	....	....	....	.08	....	....	....	....	....	....	....	3.91
Southeastern Division																																	
Advance[3].....½ mile W	St. Francis	....	.33	.24	.05	.25	.03	....	....	T.	T.	.43	1.30	....	....	.60	.31	....	....	....	....	....	....	.02	....	....	....	T.	T.	....	....	....	3.56
Alton.......10 miles SE	Black	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Annapolis[2].....7 mi. W	....do	.16	1.09	....	.23	....	.45	.02	....	....	....	1.22	.09	.06	....	....	.92	....	....	....	....	....	....	....	.21	....	....	....	....	....	....	....	4.45
Arcadia[2]	St. Francis	.12	.88	....	.25	....	....	.20	....	....	....	.15	.90	.12	....	....	2.62	....	....	....	....	....	....	....	....	....	....	....	.05	....	....	....	5.29
Belleview[2]	Meramec	....	.92	....	.33	T.	.12	T.	....	....	.07	1.09	.22	.03	....	....	2.09	....	....	....	....	....	....	....	.14	....	....	....	....	....	....	....	5.01
Bernie[2]	St. Francis	....	.62	....	....	....	.22	....	....	....	....	.94	1.22	.09	....	....	.51	....	....	....	....	....	....	....	.04	....	....	....	....	....	....	....	3.64
Birch Tree[2] ...½ mile E	Black	.32	1.22	....	.14	....	.62	....	....	....	....	.92	.40	....	....	....	*	....	....	....	....	....	....	....	.98	....	....	....	....	....	....	....	4.60
Black...... 9 miles NW	....do	.52	....	.23	T.	.20	T.	....	....	....	.52	.33	.10	....	....	.90	.60	....	....	....	....	....	....	.62	....	....	....	....	....	....	....	....	4.02
Bloomfield[3]	St. Francis	.18	.42	....	.04	....	.38	....	....	....	....	.51	.42	.36	....	....	.55	....	....	....	....	....	....	....	.02	....	....	....	....	....	....	....	2.88
Bunker[2]... 4 miles NW	Black	.55	....	....	.53	....	.42	....	....	....	....	.18	.40	....	....	....	1.10	....	....	....	....	....	....	T.	.32	....	....	....	....	....	....	....	3.50
Campbell	St. Francis	....	.85	T.	.01	....	.20	....	....	....	....	.64	.73	....	....	.02	.05	....	....	....	....	....	....	.10	.03	....	....	....	....	....	....	....	2.63
Cape Girardeau....(A)	Mississippi	....	.45	....	.17	....	.34	....	....	....	.50	.55	1.00	T.	....	.50	1.85	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	5.36
Cape Girardeau[2]...(B)	....do	....	.37	....	.14	.08	.29	T.	....	T.	....	.98	.75	.20	....	....	2.23	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	5.04
Caruthersville[2]	....do	T.	.86	....	.08	....	.33	....	....	....	....	.43	.09	T.	....	....	.25	....	....	....	....	....	....	....	....	....	....	....	....	.03	....	....	2.07
Centerville(1)[2]	Black	.14	1.12	....	.45	....	.39	.05	....	....	....	.78	.35	.05	....	....	.67	....	....	....	....	....	....	T.	.35	....	....	....	....	....	....	....	4.35
Centerville(2)[2]	....do	.13	1.13	....	.32	....	.43	T.	....	....	T.	.83	.29	.04	....	....	.55	....	....	....	....	....	....	....	.27	....	....	....	T.	....	....	....	3.99
Clearwater Dam[2]	....do	.30	.50	....	.05	....	.67	....	....	....	....	.72	.11	....	....	....	.77	....	....	....	....	....	....	....	.37	....	....	....	....	....	....	....	3.49
Cook Station[2]	Meramec	.20	.40	....	.75	....	.28	.05	....	....	.10	.48	.12	....	....	.25	.89	....	....	....	....	....	....	....	.88	....	....	....	....	....	....	....	4.40
Crane Mountain[2]	St. Francis	.08	.97	....	.36	....	.42	....	....	....	....	.76	.26	....	....	.05	1.11	....	....	....	....	....	....	....	.12	....	....	....	....	....	....	....	4.13
Crystal City	Mississippi	....	.60	....	.50	T.	.08	.03	....	....	.05	.89	.29	T.	....	.67	.01	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	3.12
Cuba[2]	Meramec	.11	.57	....	.93	....	.06	.06	....	....	.16	.48	.12	....	....	1.10	.91	....	....	....	....	....	....	....	.46	....	....	....	....	....	....	....	4.96
Deering[2]	St. Francis	....	.75	....	.04	....	.31	....	....	....	....	.29	.24	....	....	....	T.	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1.63
De Soto	Mississippi	....	.80	....	.56	....	.08	T.	....	....	.11	.42	.38	....	....	1.09	.01	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	3.45
Dexter[2]	St. Francis	.14	.53	....	.04	....	.27	....	....	....	....	.78	.39	.41	....	....	.55	....	....	....	....	....	....	....	.11	....	....	....	....	....	....	....	3.22
Doniphan(1)	Black	....	.33	.11	....	T.	.51	....	....	....	.09	.72	.12	....	....	....	....	....	....	....	....	....	.02	.70	....	....	....	....	....	....	....	....	2.60
Doniphan(2)[2]	....do	.12	.45	....	.09	....	.54	....	....	....	....	.80	.55	.05	....	....	....	....	....	....	....	....	....	....	.64	....	....	....	....	....	....	....	3.24
East End[2]	Meramec	....	.87	....	.56	....	*	....	....	....	*	*	*	*	....	....	2.90	....	....	....	....	....	....	....	.83	....	....	....	....	....	....	....	5.16
Ellington[2]	Black	.33	.74	....	.05	....	.60	....	....	....	....	.80	*	.20	....	....	1.60	....	....	....	....	....	....	....	.50	....	....	....	....	....	....	....	4.82
Ellsinore	....do	....	.34	.08	....	....	.40	....	....	....	T.	.60	.42	....	....	.19	T.	....	....	....	....	....	....	.41	....	....	....	....	....	....	....	....	2.44
Farmington[2]	St. Francis	.04	.86	....	.49	T.	.12	.01	....	....	T.	1.39	.07	.07	....	....	3.75	....	....	....	....	....	....	....	.05	....	....	....	....	....	....	....	6.85
Fisk[2]	....do	T.	.64	....	T.	T.	.39	....	....	....	....	.47	.45	.49	....	....	.21	....	....	....	....	....	....	....	T.	....	....	....	....	....	....	....	2.65
Fredericktown[2]	St. Francis	.04	.64	....	.32	....	.26	....	....	....	....	.94	....	.06	....	....	3.30	....	....	....	....	....	....	....	T.	....	....	....	....	....	....	....	5.56
Fremont[2]	Black	.27	.58	....	....	....	.60	....	....	....	....	1.02	.27	.02	....	....	.15	....	....	....	....	....	....	T.	1.00	....	....	....	....	....	....	....	3.91
Gerald	Meramec	....	.57	....	.41	.04	.06	....	....	....	.37	.07	.10	....	....	.72	....	....	....	....	....	....	....	.17	....	....	....	....	....	....	....	....	2.51
Greenville[2] .. 1 mi. SW	St. Francis	.28	.49	....	.20	....	.43	....	....	....	....	.62	.72	.27	....	....	.24	....	....	....	....	....	....	....	.16	....	....	....	....	....	....	....	3.41
Hermann[2]	Missouri	....	.54	....	.33	....	.21	.04	....	....	....	.27	.11	....	....	.10	.16	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1.76
High Lookout	Black	....	.66	.14	....	.08	.70	....	....	....	1.45	.57	....	....	....	.08	T.	....	....	....	....	....	T.	.75	T.	....	....	....	T.	....	....	....	4.43
Jackson	Mississippi	....	.47	....	.15	....	.28	....	....	....	....	.48	.59	....	....	1.46	2.17	....	....	....	....	....	....	T.	....	....	....	....	....	....	....	....	5.60
Jerome[2]	Gasconade	.38	.34	....	.48	....	.21	....	....	....	.12	....	.54	....	....	.66	....	....	....	....	....	....	....	T.	.93	....	....	....	....	....	....	....	3.66
Koshkonong[2]	Black	.08	.38	....	.67	....	.67	T.	....	....	.10	.96	.17	.05	....	....	T.	....	....	....	....	....	.06	....	.76	....	....	....	....	....	....	....	3.90
Leeper[2]‡	....do	.32	.37	....	.05	T.	.56	T.	....	....	T.	.66	.15	.02	....	....	.60	....	....	....	....	....	....	....	.35	....	....	....	....	....	....	....	3.08
Licking[2]	Gasconade	.20	....	....	.71	.05	.52	.07	....	....	....	.37	.10	....	....	....	.82	....	....	....	....	....	....	....	1.45	....	....	....	....	....	....	....	4.29
Macedonia Lookout[2]	Black	.19	.40	....	....	....	.49	....	....	....	.02	.50	.20	.38	....	....	....	....	....	....	....	....	T.	....	.54	....	....	....	....	....	....	....	2.72
Marble Hill	Mississippi	....	*	.60	.38	....	.40	....	....	....	....	.38	1.65	....	....	1.53	1.15	....	....	....	....	....	....	T.	....	....	....	....	....	....	....	....	6.09
Morehouse	....do	....	.52	....	.01	....	.14	....	....	....	....	.34	.67	....	....	.74	....	....	....	....	....	....	....	T.	T.	....	....	....	....	....	....	....	2.42
Moselle[2]	Meramec	....	.51	....	.71	....	.02	.03	....	....	.35	....	.14	T.	....	.54	.02	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	2.32
New Madrid[2]	Mississippi	T.	2.03	....	....	....	T.	....	....	....	....	.52	.19	T.	....	....	.72	....	....	....	....	....	....	....	T.	....	....	....	....	....	....	....	3.46
Oates Tower[2]	Black	.16	.61	....	.24	....	.26	.02	....	....	T.	.57	.33	.03	....	....	1.04	....	....	....	....	....	....	....	.54	....	....	....	T.	....	....	....	3.80
Owensville[2]	Gasconade	....	.45	....	.27	....	....	.12	....	....	.03	*	.19	....	....	1.59	.08	....	....	....	....	....	....	....	.21	....	....	....	....	....	....	....	2.94
Pacific[2]	Meramec	....	.51	....	.61	T.	....	.20	....	....	....	*	.40	T.	....	T.	.40	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	2.12
Parma[2]	St. Francis	.05	1.04	....	T.	....	.16	....	....	....	....	.33	.49	.15	....	....	.21	....	....	....	....	....	....	....	.11	....	....	....	....	....	....	....	2.54
Perryville	Mississippi	....	.32	....	.26	.03	.09	....	....	....	....	.51	.38	....	....	1.59	1.86	....	....	....	....	....	....	T.	....	....	....	....	....	....	....	....	5.04
Poplar Bluff[2]	Black	.12	.47	....	.02	T.	.40	....	....	....	....	.44	.59	.40	....	....	.10	....	....	....	....	....	....	....	.30	....	....	....	....	....	....	....	2.84
Puxico[2]	St. Francis	.21	.39	....	.17	T.	.34	T.	....	....	....	.38	.30	.21	....	....	1.20	....	....	....	....	....	....	....	.08	....	....	....	....	....	....	....	3.28
Qulin[2]	....do	.06	.62	....	.03	....	.38	....	....	....	....	.45	.29	.21	....	....	.15	....	....	....	....	....	....	....	.26	....	....	T.	....	....	....	....	2.45
Reynolds[2]	Black	.21	1.05	....	.34	....	.45	....	....	....	.04	.60	.30	....	....	....	1.16	....	....	....	....	....	....	....	.52	....	....	....	.04	....	....	....	4.71
Richwoods[2]	Meramec	....	.46	....	.65	T.	T.	.02	....	....	....	.70	.27	*	....	*	.62	....	....	....	....	....	....	T.	.12	....	....	....	....	....	....	....	2.84
Roby	Gasconade	....	.49	.04	.45	.08	.45	....	....	....	.51	.21	.26	....	....	1.11	.08	....	....	....	....	....	.05	.97	....	....	....	....	....	....	....	....	4.70
Rolla[2]	Meramec	.15	.37	....	.95	....	.12	....	....	....	.08	.63	.25	....	....	.67	.22	....	....	....	....	....	....	.71	....	....	....	....	....	....	....	....	4.15
Round Spring[2]	Black	.42	.43	....	.17	....	.38	....	....	....	....	.66	.35	....	....	....	2.15	....	....	....	....	....	....	....	1.00	....	....	....	....	....	....	....	5.56
St. Louis:																																	
City Office[1,5]	Mississippi	.19	.22	T.	.78	.02	.26	....	T.	....	.14	.60	.24	....	T.	.72	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	T.	3.17
Airport[3,5]	Missouri	.32	.07	T.	.65	.05	.07	....	T.	....	.05	.17	.09	....	T.	.97	....	....	....	....	....	T.	....	....	....	....	....	....	....	....	....	....	2.44
St. Louis Univ[1,5]	Mississippi	.32	.18	....	.82	.03	.40	....	T.	....	.27	.16	.18	....	....	.74	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	3.10
Washington Univ.[2]	....do	.01	.61	....	.68	.07	.08	.24	....	....	....	.38	.10	.09	....	.51	.17	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	2.94
Salem[2]	Meramec	.26	.62	....	.33	....	.29	.03	....	....	.03	.66	.07	.02	....	....	1.68	....	....	....	....	....	....	.25	.65	....	....	....	....	....	....	....	4.89

Continued on next page

Daily Precipitation for May 1948—Continued from preceding page

Stations	Drainage-basins	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Total
Southeastern Division —	*Concluded*																																
Sikeston[3]	Mississippi	.07	.36	....	.02	T.	.10	T.	....	....	....	.27	.44	.24	....	....	.56	....	....	....	....	....	T.	....	T.	....	....	....	T.	....	....	....	2.06
Siloam Sprgs Lookout[2]	White	....	.53	....	.40	....	.71	....	....	....	....	1.00	....	.14	....	....	....	....	....	....	....	....	.10	....	1.25	....	....	....	....	....	....	....	4.13
Steelville[2] 2½ mi. NE	Meramec	.12	.38	....	.95	....	.16	.06	....	....	.07	.50	.10	....	....	.99	.31	....	....	....	....	....	....	.20	.15	....	....	....	....	....	....	....	3.99
Sullivan[2]	do	.04	.60	.02	.80	T.	.03	.05	....	....	.03	.54	.24	.02	....	.52	.39	....	....	....	....	....	....	T.	.15	....	....	....	....	....	....	....	3.43
Summersville[2]	Black	.40	.28	....	.20	....	.56	.01	....	....	.08	.50	.17	....	....	....	.62	....	....	....	....	....	....	....	.77	....	....	....	....	....	....	....	3.59
Union[2] 1½ mi. SE	Meramec	....	.50	....	....	.48	.02	.06	....	....	....	.32	.17	.02	....	.55	.15	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	2.27
Valley Park[2]	do	....	.41	....	.56	.14	.02	.24	....	....	....	.41	.07	.05	....	....	.85	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	2.75
Van Buren[2]	Black	.34	.68	....	....	....	.65	....	....	....	....	1.00	.14	.05	....	....	.13	....	....	....	....	....	....	....	.55	....	....	....	....	....	....	....	3.54
Vichy[3] 2 miles NW	Meramec	.36	.17	.12	.21	.11	.07	....	....	....	.46	.03	.16	....	....	1.18	....	....	....	....	....	....	....	.38	....	....	....	....	....	....	....	....	3.25
Wappapello Dam[2]	St. Francis	.18	.37	....	.07	....	.39	....	....	....	....	.38	.58	.15	....	....	.72	....	....	....	....	....	....	....	.12	....	....	....	....	....	....	....	2.96
Webster Groves	Mississippi	....	.53	....	.88	.05	.17	.10	....	....	.08	.32	.18	.01	....	1.04	T.	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	3.36
Weingarten	do	....	.90	....	.62	....	.10	....	....	....	....	.60	.50	....	....	1.60	2.15	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	6.47
West Plains[3]	Black	....	.51	.37	....	.60	T.	....	....	....	.62	.01	.33	....	....	.03	....	....	....	....	....	.09	....	.93	T.	....	....	....	....	....	....	....	3.49
Williamsville[2]	do	.26	.52	....	.14	....	.36	....	....	....	....	.56	2.03	.26	....	....	.24	.06	....	....	....	....	....	....	.24	....	....	....	....	....	....	....	4.67
Willow Springs[2] 500 ft E	White	.18	.29	....	.26	....	.50	....	....	....	....	.77	....	.17	....	.08	....	....	....	....	....	....	.10	....	.98	....	....	....	....	....	....	....	3.33
Zalma[2]	Mississippi	....	.52	....	.35	T.	.31	....	....	....	....	.31	.53	.13	....	....	1.30	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	3.45
Cairo, Ill.[1], [5]	do	....	.22	.14	.08	....	.08	....	....	T.	....	.27	.26	....	....	.28	.62	....	....	....	....	....	....	T.	....	....	....	T.	.02	....	....	....	1.97

Except as otherwise indicated, amounts are for 24 hours ending late in afternoon. [1] Midnight to midnight. [2] Measured in the morning; for the preceding 24 hours. [3] Data for 24 hours ending 12:30 A. M. (C. S. T.) of following day. [5] Recording gage. T. Trace or 0.005 inch or less. * Included in next measurement. // Windshield on gage. Italics data interpolated. § Partly interpolated. (A) Record from cooperative station gage. (B) Record from river station gage. (C) Airport. ‡ Received too late to be included in means and extremes.

Daily Evaporation (inches), Mean Temperature (F°), and Wind Movement (miles) for May 1948

(See precipitation data in daily precipitation table)

Station	Data	Day of month																															Monthly
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Columbia (Univ. of Mo. Hort. Exp. Sta. 9 mi. WNW.)	Evaporation	.202	....	.157	.151	.102	.076	.125	.194	.208	.156	.026	.057	.107	.175	.141	.236	.228	.280	.114	.266	.196	.180	.133	.237	.195	.189	.178	.202	.198	.154	.174	5.205
	Mean temperature	64	64	56	60	58	55	54	62	70	70	59	56	56	61	66	64	62	63	64	64	70	66	68	64	58	61	64	68	68	64	68	62.8
	Wind movement	20	73	14	33	22	84	12	31	65	31	1	41	19	39	54	42	23	12	2	6	20	13	12	2	1	1	1	2	1	2	4	683
Lakeside (Osage Dam)	Evaporation	.133	.269	.158	.124	.157	.030	.100	.193	.317	.246	.044	.044	.088	.149	.264	.065	.270	.243	.257	.245	.222	.208	.312	.135	.217	.213	.188	.227	.231	.233	.120	5.702
	Mean temperature	70	62	58	61	55	56	56	62	68	68	62	57	60	61	59	70	61	64	63	64	70	70	67	65	60	60	63	68	66	64	69	63.2
	Wind movement	55	98	73	50	51	55	112	31	115	99	31	45	58	29	73	22	30	34	32	37	20	42	40	34	40	49	29	25	27	43	21	1,500
St. Louis (Washington University)	Evaporation	.085	.167	.158	.152	.057	.078	.105	.144	.185	.088	.144	.070	.049	.077	.163	.036	.245	.207	.198	.197	.228	.195	.207	.178	.233	.182	.182	.174	.228	.197	.239	4.848
	Mean temperature	66	62	58	60	57	60	57	62	66	74	66	60	60	61	62	71	64	63	62	66	72	67	68	62	61	64	66	70	66	66	68	64.0
	Wind movement	30	80	21	23	28	21	37	17	36	46	19	32	29	17	25	16	26	28	28	17	15	27	30	12	58	23	11	9	28	40	38	867

Observations taken at 8:00 a. m. except at 5:00 p. m. at Columbia. For Lakeside and St. Louis (Washington University) descriptions see April 1932 and August 1938 reports, respectively. * Included in next measurement.

(Continued from page 35)

Tornadoes.—1st, 10th. (See storm table).
Windstorms.—1st, 2d, 10th. (See storm table).

OBITUARIES

Mr. Tilton Davis, River Observer at Lexington, Mo., died May 10, 1948 at the age of seventy years. Mr. Davis served as both River and Cooperative Observer from April 1, 1945 to October 16, 1947, when he resigned from the latter position but continued as River Observer until his death. Mr. Davis was a veteran pilot of ferry boats crossing the Missouri River at Lexington and at one time was owner of extensive tracts of river bottom lands in that area. With his passing the Weather Bureau and the people of Lexington have been deprived of the services of a veteran river man and public-spirited native citizen.

Mr. A. W. Madison, Cooperative Observer at the Hailey, Mo. station for the past 23 years, died May 10, 1948. Mr. Madison's services began on May 1st, 1925 and he served continuously and faithfully until his death. With his passing the Hailey community and the Weather Bureau have lost a respected citizen and a loyal co-worker.

Daily Temperatures for May 1948

Stations		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Northern Division																																	
Brunswick /	Maximum..	77	67	70	72	61	63	70	77	82	67	56	59	70	75	79	79	74	81	80	83	83	84	80	72	67	79	82	84	77	71	80	74.2
	Minimum ..	53	54	46	46	52	52	42	42	48	61	55	51	48	48	52	51	52	51	51	52	52	54	54	52	48	49	49	52	54	59	59	51.3
Chillicothe 2 mi ESE(C)	Maximum..	75	66	67	71	61	61	70	77	82	71	56	56	70	75	77	76	76	81	80	83	78	84	85	71	77	81	81	85	74	68	80	74.0
	Minimum ..	50	50	44	50	51	46	38	47	63	56	50	47	45	50	54	47	46	50	52	52	58	50	60	51	46	47	49	52	55	59	55	50.6
Columbia	Maximum..	80	67	72	70	63	61	70	79	83	74	61	62	68	77	72	81	76	80	79	83	85	82	80	73	75	78	82	84	79	76	80	75.2
	Minimum ..	55	51	47	53	53	48	40	51	64	61	52	52	49	51	56	50	48	51	54	51	60	59	60	52	49	47	51	57	58	58	58	53.1
Fayette	Maximum..	77	71	69	70	66	61	69	78	80	77	62	60	68	76	78	80	75	79	78	81	84	81	82	74	74	78	82	85	80	71	79	75.0
	Minimum ..	53	52	43	51	48	49	42	45	61	60	53	50	47	46	58	48	50	48	50	47	60	53	58	50	45	46	48	53	57	58	60	51.3
Grant City	Maximum..	71	70	68	73	64	70	80	79	75	65	59	58	72	79	78	75	78	80	79	84	79	82	85	70	76	81	81	80	74	65	79	74.5
	Minimum ..	46	50	45	45	51	45	55	53	51	39	44	45	41	50	61	51	45	51	55	54	60	49	50	52	46	50	56	54	57	53	54	50.3
Hannibal	Maximum..	74	59	70	68	65	64	70	71	81	76	59	58	64	71	76	78	73	75	74	82	78	80	82	68	73	78	81	84	75	78	78	73.0
	Minimum ..	51	47	42	50	49	47	41	47	62	58	51	51	47	47	56	52	50	52	49	49	62	50	55	47	45	50	53	58	55	53	59	51.1
Kansas City Airport..	Maximum..	77	72	64	72	62	63	72	81	86	70	55	60	74	80	80	83	79	81	83	87	85	85	82	72	72	79	83	84	75	66	79	75.6
	Minimum ..	56	57	49	50	52	50	44	56	68	55	50	48	43	59	59	53	52	55	62	58	67	60	68	56	52	51	53	56	60	58	61	55.4
Kirksville	Maximum..	74	72	70	70	68	60	69	72	79	77	60	56	67	71	71	75	74	80	78	81	79	81	86	73	76	80	83	84	75	78	80	74.2
	Minimum ..	47	45	40	50	49	46	40	47	61	59	48	49	44	47	54	48	47	51	49	52	62	51	54	47	44	50	51	58	52	52	57	50.0
Lathrop	Maximum..	..	77	67	71	66	63	68	78	82	78	54	59	70	76	79	79	75	79	79	84	80	83	75	73	73	77	80	82	75	68	79	^{a}74.3
	Minimum ..	..	51	46	47	52	48	39	49	65	53	48	46	42	54	62	51	46	55	54	55	60	53	62	52	46	50	50	55	53	58	56	^{a}51.9
Louisiana	Maximum..	76	74	72	71	68	59	71	75	80	79	66	61	65	73	70	79	76	80	79	84	81	80	85	80	75	81	85	87	80	81	82	76.0
	Minimum ..	52	51	38	52	45	51	42	41	61	63	57	53	49	40	57	45	52	44	44	40	59	47	47	48	38	40	45	49	52	53	58	48.8
Macon /	Maximum..	74	65	69	69	63	60	70	75	81	71	55	58	69	72	79	78	75	78	77	82	81	81	85	70	75	79	83	86	76	76	79	73.9
	Minimum ..	49	48	41	47	50	51	39	45	50	59	53	49	45	45	56	52	48	50	57	54	59	49	55	48	43	50	53	55	53	54	57	50.5
Maryville	Maximum..	70	69	65	70	65	62	68	74	82	75	57	59	70	77	77	75	74	80	79	85	80	81	80	77	75	80	80	81	74	65	77	73.6
	Minimum ..	45	40	45	43	50	44	36	49	62	50	43	42	40	50	57	49	45	50	54	50	57	54	61	52	45	47	49	52	53	53	52	49.0
Mexico /	Maximum..	77	68	72	70	63	60	71	79	84	74	59	61	67	75	74	81	74	78	78	84	85	83	84	72	74	79	84	85	78	78	80	75.2
	Minimum ..	52	53	41	53	48	52	39	46	59	62	58	51	45	47	58	51	47	47	51	51	61	52	58	47	42	45	49	56	54	55	59	51.3
Moberly /.... 3½ mi. NE	Maximum..	75	65	68	68	62	60	70	79	85	65	64	59	68	73	73	78	80	78	84	87	82	83	85	70	79	80	86	84	81	80	84	§75.3
	Minimum ..	53	49	48	51	51	39	39	45	62	61	54	51	45	40	45	55	48	53	48	54	59	50	51	48	43	48	47	57	55	55	60	50.5
Oregon	Maximum..	73	71	65	71	67	63	69	77	81	61	57	65	72	79	79	79	78	82	81	85	82	82	81	73	76	80	81	85	74	63	79	74.5
	Minimum ..	49	53	47	47	50	47	42	52	58	48	45	43	43	55	57	53	50	56	57	57	62	56	64	55	50	54	53	55	55	55	53	52.3
St. Charles	Maximum..	79	74	73	69	69	65	73	77	76	85	71	65	66	77	78	84	79	79	78	85	86	81	83	78	76	80	84	87	85	81	84	77.6
	Minimum ..	54	57	44	54	47	51	43	48	61	63	63	57	53	46	58	57	52	49	48	48	61	53	55	49	45	49	50	56	51	53	56	52.6
St. Joseph Airport	Maximum..	75	72	70	73	68	63	72	79	85	61	56	63	74	80	79	80	77	83	84	86	83	86	84	73	77	81	81	84	77	64	81	75.8
	Minimum ..	52	55	49	50	50	46	39	53	61	53	48	45	42	56	55	50	48	51	56	54	61	60	66	56	50	50	50	52	58	58	55	52.5
Trenton	Maximum..	75	68	68	73	65	63	70	74	81	75	60	57	71	75	80	78	76	79	79	82	80	82	85	80	77	80	82	84	75	70	80	75.0
	Minimum ..	50	48	44	50	49	47	40	51	63	59	50	49	47	52	50	50	52	55	54	52	60	52	61	53	46	49	58	54	55	59	57	52.1
Unionville /	Maximum..	73	62	67	71	65	60	68	70	80	62	52	56	68	70	79	75	75	79	79	84	80	81	85	69	77	79	82	84	71	75	78	72.8
	Minimum ..	45	45	40	44	48	48	38	47	51	57	46	46	41	44	54	49	46	48	49	48	60	51	51	46	43	45	51	53	51	50	54	48.0
Warrenton	Maximum..	76	70	69	69	63	63	70	76	81	78	68	60	66	75	71	81	74	77	75	82	87	79	81	74	72	77	81	83	79	77	79	74.6
	Minimum ..	52	55	39	52	45	49	40	43	59	64	60	52	49	42	56	52	47	39	43	45	56	47	53	46	42	42	47	53	52	52	57	49.4
Keokuk, Iowa	Maximum..	72	58	68	70	68	58	68	66	79	73	55	55	61	67	76	76	73	76	78	83	81	81	84	69	74	79	82	82	73	78	81	72.4
	Minimum ..	52	48	43	53	54	50	44	53	64	53	49	50	49	48	60	54	51	53	52	53	62	52	55	49	49	52	55	59	50	55	62	52.7
Southwestern Division																																	
Clinton	Maximum..	84	73	69	70	63	65	74	82	86	67	59	60	71	81	76	83	77	81	80	85	89	87	82	71	70	75	80	83	80	70	79	75.9
	Minimum ..	57	55	45	50	49	46	42	47	64	59	52	48	44	50	56	48	52	49	50	50	56	59	64	56	49	47	49	54	59	58	58	52.3
Eldon	Maximum..	83	77	69	69	65	63	70	78	82	78	65	63	68	78	75	81	78	78	78	83	87	83	77	73	70	75	78	83	80	75	79	75.5
	Minimum ..	57	53	45	53	49	48	44	48	64	60	53	51	50	49	59	54	53	50	49	51	61	55	60	54	47	46	49	58	56	55	57	52.8
Harrisonville /	Maximum..	80	72	63	70	59	66	64	79	83	64	56	60	72	73	79	83	78	78	78	84	88	83	81	72	79	83	79	83	78	65	80	74.6
	Minimum ..	54	54	47	48	52	46	43	48	56	59	51	48	44	49	58	52	50	53	56	55	58	60	63	57	50	57	59	57	59	57	59	53.5
Jefferson City	Maximum..	82	74	70	70	65	62	71	79	82	77	63	61	66	78	72	80	75	78	76	83	86	80	78	73	72	76	80	84	80	73	79	75.0
	Minimum ..	52	54	43	52	45	49	38	40	58	60	56	51	48	42	58	53	48	45	48	43	52	53	55	53	46	41	44	50	56	50	57	49.7
Joplin Airport	Maximum..	88	72	64	67	65	65	75	81	84	75	60	65	72	81	83	85	78	80	80	82	89	89	85	71	73	74	81	81	88	78	84	77.3
	Minimum ..	57	55	54	51	52	45	42	54	70	59	52	48	45	51	66	60	55	54	54	57	55	64	65	59	52	48	55	51	54	61	62	55.1
Lamar /	Maximum..	85	72	68	68	63	63	70	79	82	66	56	63	70	78	78	83	76	78	78	80	87	85	82	70	71	74	78	81	84	79	81	75.1
	Minimum ..	53	53	49	49	49	45	38	38	49	57	52	49	41	43	49	55	49	49	49	50	52	54	62	62	54	48	48	49	50	54	59	50.3
Lebanon /	Maximum..	88	72	67	69	66	62	71	77	80	67	63	59	67	76	70	82	75	78	79	81	82	84	76	70	69	73	76	79	81	81	77	74.1
	Minimum ..	51	55	46	49	45	46	38	44	51	57	58	51	48	49	55	58	48	47	48	49	57	57	58	55	49	42	50	51	52	55	59	50.9
Lexington /	Maximum..	79	71	67	72	60	63	72	81	86	64	55	58	72	79	81	80	77	82	81	85	85	85	80	74	75	79	83	86	78	67	82	75.5
	Minimum ..	54	55	47	50	54	49	43	50	55	60	52	50	46	51	62	54	52	54	57	55	63	58	64	55	51	52	53	58	59	61	60	54.3
Marshall	Maximum..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
	Minimum ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
Mountain Grove	Maximum..	84	78	73	70	70	62	70	75	76	74	71	67	67	74	78	83	82	77	76	81	88	84	72	70	69	73	73	81	80	80	78	75.4
	Minimum ..	58	55	47	54	47	49	40	48	61	57	58	54	50	48	55	58	50	48	50	48	56	59	54	59	51	44	51	52	52	58	62	52.7
Neosho	Maximum..	86	82	72	70	72	65	74	80	83	81	62	64	72	80	85	85	84	79	79	81	87	88	83	81	70	75	78	80	86	85	82	78.4
	Minimum ..	63	54	54	53	46	49	35	50	69	59	55	52	41	47	66	63	50	45	49	48	49	60	64	63	58	48	53	47	50	52	59	53.3
Nevada	Maximum..	87	75	67	72	66	66	72	80	82	79	62	64	73	80	81	85	82	82	82	83	90	87	84	80	75	77	80	85	87	80	83	78.3
	Minimum ..	62	55	49	51	50	47	38	50	66	58	52	48	41	51	65	50	48	50	49	51	54	63	66	62	52	45	51	51	53	62	62	53.3
Sedalia	Maximum..	80	80	68	68	66	62	69	76	82	81	60	59	67	78	76	78	76	77	77	81	84	82	80	78	71	75	78	82	80	74	79	75.0
	Minimum ..	53	53	46	51	51	47	39	50	50	59	54	50	46	52	60	54	51	51	54	55	59	59	64	55	49	47	49	55	60	58	60	52.9
Springfield....4 mi. NW	Maximum..	85	70	65	66	65	61	70	76	79	71	59	59	66	77	79	81	73	76	76	80	86	80	72	68	66	72	73	78	81	77	77	73.0
	Minimum ..	57	53	49	52	47	45	40	50	64	57	54	51	44	48	59	59	54	52	54	52	56	62	60	58	53	46	55	54	54	58	60	53.5
Warrensburg	Maximum..	81	79	68	72	69	64	72	80	83	80	62	59	70	79	77	84	77	80	79	84	87	84	82	78	73	77	81	84	80	75	80	76.8
	Minimum ..	66	55	46	51	53	47	43	51	65	59	53	51	46	54	61	55	53	56	56	55	60	58	65	55	49	53	53	58	59	59	61	55.0
Southeastern Division																																	
Arcadia /	Maximum..	87	76	70	70	73	64	74	77	80	80	77	68	66	80	67	87	78	80	78	86	90	80	77	73	73	78	80	78	82	81	82	77.3
	Minimum ..	43	51	47	47	39	34	42	39	39	63	59	54	53	40	43	54	47	43	44	42	43	52	47	53	48	39	42	46	48	50	45	46.3
Birch Tree.... ½ mile E	Maximum..	85	80	70	70	70	60	72	74	75	77	74	71	67	..	..	..	..	78	80	82	88	88	79	73	73	76	76	78	82	..	..	^{f}75.9
	Minimum ..	53	55	47	52	44	51	40	40	60	60	58	58	45	..	..	..	..	44	45	42	47	60	52	56	52	43	48	58	49	..	..	^{f}50.4
Caruthersville	Maximum..	81	82	78	70	73	72	70	77	82	85	84	81	70	76	82	83	82	78	78	84	88	86	84	82	79	77	77	79	84	86	83	79.8
	Minimum ..	63	59	55	60	52	58	46	53	63	69	65	66	60	50	57	65	60	55	57	56	56	61	59	64	62	58	60	65	61	64	63	59.4
Crystal City	Maximum..	86	73	72	68	72	65	72	78	78	85	78	70	70	78	74	85	83	79	77	83	88	84	81	79	77	79	80	83	82	83	83	78.2
	Minimum ..	57	58	45	56	43	55	43	42	65	68	62	58	48	43	59	60	50	46	49	45	53	55	50	51	50	42	45	54	55	55	52	52.1
Doniphan	Maximum..	88	81	70	73	78	66	76	79	82	85	81	74	70	79	81	88	82	80	81	85	90	86	74	79	78	77	78	80	86	86	81	79.8
	Minimum ..	53	57	50	56	42	54	37	40	60	68	61	63	55	42	50	65	52	45	45	42	48	62	49	62	56	44	49	59	53	53	59	52.6
Farmington	Maximum..	86	76	70	67	72	62	68	74	79	81	77	68	64	78	66	83	74	76	74	82	87	80	75	72	69	75	76	77	80	79	77	75.0
	Minimum ..	56	54	44	52	39	47	41	42	60	64	59	55	51	40	54	58	50	44	45	42	54	52	48	50	45	40	42	55	49	51	51	49.5
Jackson	Maximum..	85	82	75	68	76	68	73	78	81	86	82	78	67	79	75	85	83	80	79	84	92	85	81	80	78	80	83	84	86	84	83	80.0
	Minimum ..	59	58	48	57	40	54	41	41	62	69	63	61	53	42	56	62	52	48	48	47	52	56	49	57	52	43	48	61	56	55	53	53.0
Poplar Bluff	Maximum..	85	81	75	71	76	67	76	77	80	85	81	75	71	77	75	87	81	81	83	86	91	85	76	81	79	69	79	81	88	88	88	79.8
	Minimum ..	47	58	51	56	45	51	44	43	62	69	62	64	55	45	53	64	57	49	52	49	52	62	51	62	55	50	53	61	58	59	63	55.0
Rolla /	Maximum..	85	60	68	63	61	62	65	74	72	70	66	60	66	75	70	81	72	78	74	81	87	75	71	71	68	70	74	74	76	76	77	71.7
	Minimum ..	51	55	44	52	47	51	40	46	63	58	59	51	49	47	55	55	52	51	61	50	56	57	54	51	47	46	50	56	55	55	59	52.4
St. Louis	Maximum..	78	65	71	65	68	62	68	74	77	83	70	61	63	76	65	82	73	76	76	82	83	81	80	73	72	78	81	85	79	79	81	74.4
	Minimum ..	57	53	49	54	53	49	47	53	61	67	59	55	54	52	57	59	59	59	53	58	64	57	60	52	51	57	60	65	54	55	58	56.2
Salem /	Maximum..	88	72	69	67	73	59	71	76	78	77	72	61	65	77	65	83	74	76	76	82	87	83	71	73	68	75	73	80	80	82	78	74.5
	Minimum ..	52	55	46	52	45	52	40	44	54	59	60	54	51	42	54	56	47	45	46	43	54	55	54	55	48	40	46	53	52	51	57	50.4
Sikeston /	Maximum..	83	81	70	71	76	70	73	78	82	87	82	68	68	77	72	83	78	79	79	84	80	83	82	81	78	79	80	84	88	87	78	78.7
	Minimum ..	56	59	48	54	45	56	43	50	62	69	64	65	57	47	56	59	55	51	53	50	55	59	52	64	55	48	53	61	60	59	55	55.5
Union ....1½ mi. SE	Maximum..	79	74	70	66	69	65	70	76	77	82	74	63	66	77	70	82	77	77	75	82	88	79	80	75	71	77	82	83	80	78	80	75.6
	Minimum ..	54	54	42	41	53	49	41	40	59	63	61	54	51	41	50	58	46	44	44	42	53	52	48	49	42	41	43	52	53	49	58	49.3
West Plains	Maximum..	86	76	63	71	72	62	72	74	77	75	75	65	67	76	81	85	78	78	79	82	88	83	69	71	72	75	76	79	84	82	80	75.9
	Minimum ..	52	53	50	46	42	45	39	41	63	61	59	49	46	42	56	58	50	46	45	43	49	57	54	59	49	46	44	55	51	53	52	50.2
Cairo, Ill.	Maximum..	81	81	67	70	75	69	72	76	82	86	84	72	67	79	70	86	78	78	78	85	90	80	79	80	77	76	79	81	86	84	80	78.3
	Minimum ..	64	58	53	55	51	54	49	52	64	70	67	61	55	51	59	63	59	56	56	55	61	61	57	65	56	55	58	65	63	63	60	58.6

/ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs. ^{a}, ^{b}, ^{c}, etc., number of days missing, for example, ^{b} indicates two days missing. Italics data interpolated. § Partly interpolated. (C) Airport.

Missouri Storms, May 1948

Place	Date	Time	Width of path	Loss of life	Value of property destroyed	Character of storm	Remarks
Boone County	1	7:20 p.m.	....	0	$2,500	High wind	Many power and telephone lines broken. Many limbs, few trees damaged and a few chimneys blown over. Storm in Columbia and vicinity, and was accompanied by moderate hail with slight damage to gardens and crops. Hailstones up to ¾ inch were reported.
Miller County	1	9:10 p.m.	12 miles	3	$25,000	High wind	At Eldon and surrounding territory many sign boards, some buildings damaged. Slight damage to crops and gardens. Power and communication lines damaged. Three young men drowned when boat capsized during the storm, about 3 miles above Bagnell Dam. Storm was accompanied by light to moderate hail with stones up to ½ inch in diameter. Path 12 miles wide and 15 miles long.
Cole County	1	9:35 p.m.	¼ mile	0	$500,000	Tornado	Some livestock and poultry killed and crippled. Several homes completely unroofed, and nearly all homes, in town of 200 people, damaged. Several houses twisted on their foundations. Only slight crop damage. 2 persons injured. Storm in and around St. Thomas. Heavy hail preceded the tornado by an hour or two; stones ranged up to size of a walnut. Storm path ¼ mile wide and ½ mile long. Storm moved from west.
Cooper County	1	Between 10:00 p.m. and 11:00 p.m.	3 miles	0	Considerable	Heavy hail	Storm near Wooldridge. Pastures, gardens, fruit trees, oats and wheat crops badly damaged. Many roofs damaged. Some wildlife killed. Some stones 3 inches in diameter. Southern third of county also hit by this storm. Path 3 miles miles wide and 20 miles long.
Callaway County	1	10:00 p.m.	....	0	$5,000	High wind	In and around Fulton, where several barns and other outbuildings were damaged or demolished. Some poultry killed. Hail accompanied the storm with some damage to gardens.
Franklin County	1	10:45 p.m.	375 feet	0	....	High wind	Many trees destroyed in Missouri Botanical Gardens, Gray Summit. 50 of the oldest and largest trees, some 120 to 150 years old, 100 feet high and 3½ feet in diameter uprooted or split. Width of path 375 feet and 1¼ miles long.
St. Louis County and City of St. Louis	1	11:28 p.m. to 11:40 p.m.	....	0	$300,000	High wind	This storm also struck East St. Louis–Granite City–Monsanto, Illinois. Damage in City of St. Louis estimated at $100,000. Winds estimated at 75 miles per hour. Many houses and some apartment buildings unroofed in St. Louis, and at least 9 persons slightly injured, mostly by flying glass. Power and telephone wires taken down, many trees broken and some uprooted. Some automobiles damaged by falling trees and other objects. Wind from the northwest.
Webster County	10	2:00 a.m.	1 block	0	$5,000	Tornado	This storm was probably a small tornado and hit southern part of the town of Marshfield, where several houses were damaged, some trees uprooted and some telephone and power lines taken down. Path one block wide, length not known. Storm moved from southwest to northeast.
Pulaski County	10	2:30 a.m.	100 yards	0	$1,000	High wind	Some trees blown down, several barns, machine sheds, and outbuildings damaged; some damage to a few roofs, chimneys and plate glass windows, at and near Crocker. Wires were broken disrupting electric service. Width of path 100 yards. Wind from the west.
Saline County	10	....	1 mile	0	....	Moderate hail	Early gardens damaged considerably in Sweet Springs and surrounding areas. Some stones 1 inch in diameter. Storm path was 1 mile in width and 2½ miles in length.
Laclede and Texas Counties	10	11:45 a.m.	50 yards	0	$1,000	High wind	Several barns and other outbuildings damaged. Some trees uprooted. Most damage between Lynchburg and Eveningshade. Some damage to timber. (Lynchburg is in Laclede County; Eveningshade in Texas County). Storm path averaged only about 50 yards wide; length approximately 10 miles.
Stone County	15	....	1 mile	0	$1,000	Moderate to heavy hail	Most damage to strawberries and gardens, in a storm at Lampe and vicinity. Stones up to 1 inch in diameter. Path of storm 1 mile wide, 10 miles long.

Time used on this tabulation is Central Standard Time, unless otherwise indicated.

WBO, St. Louis, 9-17-48—1130.

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CLIMATOLOGICAL DATA

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H. F. WAHLGREN
ST. LOUIS, MO.

VOL. LII JUNE 1948 No. 6

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GENERAL SUMMARY

June averaged slightly cooler and considerably wetter than normal, despite the fact that the first half of the month was extremely dry. On the whole, it was a very favorable month for all growing crops and the outlook at the close of the month was very promising for a bumper crop of corn and wheat.

Temperatures averaged practically normal over each of the three divisions and for the State as a whole, as follows: Northern, 72.0°, —0.4°; Southwestern, 73.6°, +0.1°; Southeastern, 74.2°, 0.0°; for the State, 73.3°, —0.3°. There were no unusual extremes of temperature recorded anywhere in the State, the range being from a maximum of 100° to a minimum of 42°. No unusual or prolonged periods of either warm or cool weather prevailed during the month, day-to-day averages showing little variation, as a rule. The rather high humidity that prevailed during the wet period the latter half of June made the relatively mild temperatures feel oppressive and uncomfortable. The 4th, 5th, 10th and 11th were the warmest days during the month and the 1st, 2d, 3d, and 9th were the coolest days, generally.

Precipitation during the latter half of May and the first half of June was extremely light over the whole State and droughty conditions were fast becoming serious, until general and copious rains set in on June 14-15th, after which rain occurred almost daily throughout the remainder of the month, causing June to average considerably wetter than normal, for the State as a whole. Precipitation averages, with departures from normal, by divisions, were: Northern, 5.24 inches, +0.32 inch; Southwestern, 10.46 inches, +5.28 inches; Southeastern, 6.58 inches, +2.23 inches; for the State, 7.43 inches, +2.61 inches. This was the second consecutive June with above-normal precipitation and the sixth wettest month of that name in the past 61 years, for the State as a whole. Over the Southwestern Division the current month was the third wettest June for the same period of time. This month's precipitation was very irregularly distributed, monthly totals ranging from 17.29 inches at Concordia to only 1.60 inches at Canton. Heavy to excessive 24-hour amounts of over four to more than five inches occurred locally on the 17-18th and 20th-21st, with one unofficial report of nine inches in approximately eight hours time over an area of about eight square miles, 12 miles southeast of Marshall, on the 14th. Serious soil erosion occurred during these periods of excessive precipitation.

There was some minor flooding in the Missouri, Gasconade, Grand, and Osage rivers during the month with resultant damage to crops on low ground along those streams. As a rule, river stages at the close of June were relatively high for that time of year and were much higher than at the beginning of the month, due to the almost daily rainfall the latter half of June.

Severe storms, particularly electrical storms, were unusually numerous during June, mainly during the last two weeks of the month, resulting in considerable loss of property and crops but fortunately no loss of human life. For details see special storm table printed elsewhere in this issue.

(Continued on page 43)

PRESSURE, WIND, HUMIDITY, AND SUNSHINE

Stations	Sea-level pressure, extremes-inches				Wind				Relative humidity				Percentage of sunshine	Degree days
	Highest	Date	Lowest	Date	Average hourly velocity	Maximum velocity ¶	Direction of maximum	Date	12:30 a. m.	6:30 a. m.	12:30 p. m.	6:30 p. m.		
Columbia	30.30*	1	29.67*	17	6.3	26	n.	17	80*	86*	57*	59*	58	0
K. C. Airport	30.30	1	29.61	22	9.6	31	e.	15	74	80	51	49	62	1
St. Joseph Ap't	30.29	1	29.57	22	7.1	41	sw.	22	82	86	56	55	59	2
St. Louis	30.28*	1	29.69*	7	10.2	38	nw.	5	76*	75	51	57*	67	0
Springfield	30.28	1	29.73	4	10.7	35	ne.	17	84	87	60	60	70	0
Cairo, Ill.	30.25	1	29.69	7	7.7	31	se.	18	..	82	55	..	78	0
......	.....	..	.....	..	....	..	......	..	..	..	..	..	..	....

* Data for Airport station. ¶ For 5-minute period.

COMPARATIVE DATA FOR JUNE

Year	Temperature			Precipitation					Number of days			
	Average for State	Highest	Lowest	Average for State	Average, Northern Division	Average, Southwestern Division	Average, Southeastern Division	Snowfall, Average for State	Precip. .01 inch or more	Clear	Partly cloudy	Cloudy
1888	72.6	103	36	5.81	5.98	5.96	5.50	0	7	..	..	..
1889	70.7	100	38	4.66	4.29	4.57	5.13	0	6	..	..	..
1890	77.2	106	44	2.45	3.14	2.49	1.71	0	6	..	..	..
1891	73.2	103	46	6.56	5.61	7.99	6.08	0	13	..	..	..
1892	74.5	100	45	3.09	3.04	3.72	2.52	0	7	15	9	6
1893	72.6	98	40	4.72	4.92	3.91	5.32	0	9	12	12	6
1894	74.5	105	35	3.74	4.28	4.92	2.03	0	7	16	11	3
1895	73.3	100	42	5.87	6.07	6.33	5.20	0	10	12	11	7
1896	72.5	101	45	3.98	3.32	3.63	5.00	0	9	12	11	7
1897	73.6	102	38	6.25	6.49	5.74	6.51	0	12	9	14	7
1898	75.3	100	49	5.92	6.32	6.54	4.90	0	11	13	12	5
1899	74.3	101	42	3.92	3.71	4.83	3.21	0	9	15	10	5
1900	73.3	103	44	5.05	3.71	5.06	6.37	0	10	12	12	6
1901	77.9	106	40	2.02	2.67	1.47	1.92	0	6	18	10	2
1902	70.9	100	37	6.42	6.64	6.95	5.68	0	12	11	10	9
1903	67.3	95	36	3.28	2.96	3.78	3.09	0	9	15	9	6
1904	70.5	93	45	6.68	5.31	8.23	6.51	0	11	12	12	6
1905	75.2	103	42	3.14	2.84	3.06	3.52	0	7	15	10	5
1906	72.7	101	40	4.82	3.28	6.62	4.55	0	10	15	9	6
1907	71.2	97	40	5.47	5.76	6.40	4.24	0	11	14	10	6
1908	72.3	98	43	6.01	6.92	6.78	4.33	0	11	13	10	7
1909	73.9	98	48	5.23	5.96	5.78	3.95	0	11	11	13	6
1910	70.4	99	38	4.11	3.08	4.69	4.57	0	8	16	7	7
1911	78.9	112	43	1.76	0.93	1.59	2.77	0	6	18	8	4
1912	69.5	100	42	4.77	3.31	5.39	5.62	0	9	14	8	8
1913	75.4	107	33	2.55	3.01	2.31	2.32	0	6	18	8	4
1914	79.3	106	43	2.26	3.11	2.50	1.17	0	5	18	7	5
1915	70.8	98	38	6.45	7.53	7.24	4.57	0	12	11	10	9
1916	70.0	100	42	5.86	5.05	6.50	6.04	0	10	14	9	7
1917	71.0	103	35	3.67	5.72	2.20	3.10	0	8	19	7	4
1918	77.2	110	48	3.09	3.04	3.20	3.04	0	7	17	8	5
1919	75.0	104	44	5.58	5.04	6.24	5.47	0	11	14	10	6
1920	72.7	104	41	2.35	3.09	2.14	1.83	0	6	18	7	5
1921	76.6	105	44	5.81	4.74	7.74	4.96	0	12	12	10	8
1922	76.5	108	43	1.61	1.72	1.39	1.72	0	5	19	8	3
1923	73.5	103	45	5.56	5.30	6.52	4.87	0	11	14	9	7
1924	72.5	101	38	7.27	8.53	7.70	5.57	0	14	12	12	6
1925	76.5	103	46	5.99	7.68	4.99	5.31	0	9	15	10	5
1926	70.9	101	37	3.60	5.02	3.79	1.99	0	8	15	9	6
1927	70.3	99	41	5.81	5.38	6.77	5.28	0	10	15	7	8
1928	67.7	91	40	11.25	8.59	11.03	14.12	0	15	8	11	11
1929	71.3	99	39	5.69	6.57	5.98	4.52	0	10	16	8	6
1930	72.4	109	36	3.77	5.17	4.63	1.52	0	7	18	8	4
1931	77.1	107	40	2.75	4.09	1.81	2.35	0	6	19	8	3
1932	75.2	103	47	4.81	5.53	6.09	2.82	0	10	12	12	6
1933	78.4	107	38	1.47	2.89	0.92	0.61	0	3	22	6	2
1934	80.4	108	47	2.82	2.92	2.72	2.83	0	7	17	10	3
1935	69.6	98	39	8.95	6.73	11.06	9.07	0	15	9	12	9
1936	76.5	112	40	1.42	1.30	1.38	1.57	0	4	21	6	3
1937	74.4	105	43	4.93	3.43	5.79	5.56	0	10	14	10	6
1938	72.4	98	44	4.77	4.20	5.04	5.06	0	10	13	11	6
1939	74.6	99	41	5.64	7.70	5.38	3.83	0	12	11	13	6
1940	73.5	98	44	4.36	4.24	5.10	3.75	0	8	13	10	7
1941	74.1	103	43	4.23	4.79	5.12	2.78	0	9	14	9	7
1942	73.3	98	35	7.70	8.01	8.45	6.64	0	14	9	10	11
1943	75.8	101	43	6.39	7.58	7.06	4.54	0	12	12	11	7
1944	76.4	107	39	2.55	2.55	3.48	1.62	0	7	16	10	4
1945	69.5	95	37	8.84	8.22	7.29	11.02	0	14	7	11	12
1946	73.9	104	37	2.72	3.93	2.44	1.78	0	6	17	8	5
1947	72.6	99	39	8.19	12.00	7.09	5.49	0	13	9	11	10
1948	73.3	100	42	7.43	5.24	10.46	6.58	0	12	11	10	9
Period	**73.6**	**112**	**33**	**4.82**	**4.92**	**5.18**	**4.35**	**0**	**9**	**14**	**10**	**6**

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Climatological Data for June 1948

Stations	Counties	Elevation, feet	Temperature, in degrees Fahr.							Precipitation, in inches						Number of days				Prevailing direction of wind	Observers
			Length of record, years	Mean	Departure from the normal	Highest	Date	Lowest	Date	Length of record, years	Total	Departure from the normal	Greatest in 24 hours *	Date	Total snowfall, unmelted	With precip., .01 inch or more	Clear	Partly cloudy	Cloudy		
Northern Division																					
Albany	Gentry	930	7	71.4	......	94	4	46	2†	19	4.05	−1.19	1.20	20–21	0	11	12	14	4	n.	William J. Butler
Amity	DeKalb	1,007	2	71.8	......	94	10†	51	1†	13	7.91	+0.91	2.00	17–18	0	12	14	8	8	nw.	O. M. Colhour
Bethany	Harrison	916	53	70.7	− 1.3	92	4	45	1	55	5.89	+0.83	1.49	22–23	0	12	18	6	6	ne.	B. A. McGregor
Brookfield	Linn	767	7	73.2	......	100	11	51	9	7	6.05	......	3.10	20–21	0	10	15	7	8	w.	G. F. Breen
Brunswick	Chariton	652	67	71.8	− 1.2	94	11	49	1	69	4.85	−0.26	0.97	22–23	0	14	14	8	8	nw.	O. K. Benecke
Canton, Lock & Dam 20	Lewis	488	10	72.8	+ 0.2	96	5†	50	1	18	1.60	−3.18	0.50	20–21	0	12	12	4	14	s.	Lockmaster
Carrollton	Carroll	754	2	72.6	......	96	11	47	1	2	6.57	......	1.57	17–18	0	11	14	11	5	sw.	Harold E. Finley
Chillicothe 2 mi ESE (C)	Livingston	771	39	71.6	− 0.7	95	11	48	1	42	6.11	+1.38	1.99	20–21	0	13	5	15	10	s.	Civil Aeronautics Adm.
Columbia	Boone	740	58	73.7	+ 0.3	96	11	51	1	58	6.71	+1.95	1.84	21–22	0	17	10	10	10	s.	U. S. Weather Bureau
Conception	Nodaway	1,108	59	72.6	+ 1.1	94	10†	44	3	64	5.33	+0.38	1.60	20–21	0	12	7	13	10	s.	Fr. Adelhelm Hess
Edgerton	Platte	856	28	71.6	− 0.3	95	14	42	9	45	7.74	+2.87	2.68	15	0	13	8	18	4	s.	Leroy H. Mindrup
Elsberry	Lincoln	449	17	71.1	− 3.3	97	5	42	1	17	4.68	+1.24	0.85	14–15	0	14	14	7	9	nw.	Soil Conservation Service
Fayette	Howard	760	68	72.6	− 0.2	97	11	51	1	65	3.58	−0.99	1.19	21–22	0	10	15	6	9	s.	Irvin E. Schnell
Fulton	Callaway	818	60	72.2	− 1.0	97	11	42	10	56	8.73	+4.33	2.55	20–21	0	17	14	6	10	sw.	Frank E. Hillgartner
Grant City	Worth	1,134	44	71.4	+ 0.6	92	4	51	12†	56	3.29	−1.71	1.58	20–21	0	12	13	12	5	n.	J. Homer Korn
Hannibal	Marion	759	56	71.7	− 0.8	93	5	53	16	64	5.01	+1.11	1.03	14	0	14	7	13	10	nw.	Hannibal Water Dept.
Kansas City Airport	Jackson	741	59	74.8	+ 1.2	98	10	55	1	59	5.45	+0.77	1.62	20	0	12	7	11	12	w.	U. S. Weather Bureau
Kidder	Caldwell	1,020	56	71.2	− 0.6	95	10	51	1	60	9.70	+4.73	4.21	20–21	0	12	15	5	10	nw.	Mrs. Geraldine Terry
Kirksville	Adair	969	59	71.0	− 0.7	92	11	52	1†	66	5.06	0.00	1.67	22–23	0	14	15	7	8	se.	Dow Jones
Kirksville Airport	Adair	970	9	70.4	......	92	11	50	9	9	7.06	......	2.73	20–21	0	14	7	8	15	s.	Civil Aeronautics Adm.
Lathrop	Clinton	1,071	1	72.0	......	96	10	52	1	1	8.43	......	2.72	15	0	11	17	9	4	s.	E. L. Fisher
Louisiana	Pike	469	54	72.6	+ 0.5	97	11	44	1	67	4.47	+0.24	1.10	22	0	12	10	7	13	s.	Stark Bro's Nurseries
Macon	Macon	875	49	71.6	− 0.8	95	11	52	9	55	3.80	−0.92	0.97	20–21	0	12	10	6	14	se.	John W. Atwell
Maryville	Nodaway	1,169	58	69.9	+ 0.1	90	4†	53	1†	54	4.87	−0.24	1.49	28	0	11	9	7	14	se.	R. B. Montomery
Memphis	Scotland	787	9	70.1	− 1.2	94	11	50	7	18	3.39	−1.74	1.15	22–23	0	11	8	8	14	sw.	John W. Alexander
Mexico	Audrain	800	59	72.5	− 0.7	97	11	48	1	70	4.63	−0.11	1.70	21–22	0	11	12	9	9	sw.	D. N. Woods
Moberly .....3½ mi. NE	Randolph	860	11	73.1[a]	+ 0.2	96[a]	11	53[a]	1	11	3.52	−1.44	1.10	21–22	0	10	12[a]	9[a]	8[a]	s.	Robert J. Platter
New Florence. 1 mi SE	Montgomery	885	5	71.9	......	95	5	52	1	6	6.17	......	1.60	20–21	0	13	5	9	16	s.	U. S. Weather Bureau
Oregon	Holt	1,093	92	72.4	+ 0.2	94	10	54	19	92	7.53	+2.16	2.10	17–18	0	12	16	10	4	sw.	James M. Curry
Polo	Caldwell	1,000	2	71.6[b]	......	94[c]	10	53	1	2	9.13	......	3.73	15	0	11	9	15	6	sw.	F. B. Albright
St. Charles	St. Charles	520	60	75.6	+ 1.7	98	5	50	1	70	3.79	−0.21	0.76	5	0	13	11	8	11	se.	Mrs. Myrtle Bregel
St. Joseph Airport	Buchanan	957	38	73.3	− 0.4	95	10	52	1	76	7.01	+2.06	1.55	23	0	11	10	9	11	s	U. S. Weather Bureau
Salisbury	Chariton	723	2	73.2	......	97	11	50	1	2	3.67	......	0.97	21–22	0	11	15	7	8	e.	David H. Robertson
Saverton, Lock No. 22.	Ralls	472	10	72.3	− 0.8	91	4†	53	1	10	3.83	−1.89	0.62	20–21	0	13	18	6	6	s.	Lockmaster
Shelbina	Shelby	779	7	71.5	......	96	11	51	1†	55	3.38	−1.10	0.71	20–21	0	13	14	4	12	ne.	Guyman Hatcher
Steffenville	Lewis	650	50	71.5	− 1.1	95	11	51	1†	55	3.04	−1.50	0.90	20–21	0	16	10	12	8	sw.	Mrs. Fannie V. Gross
Tarkio	Atchison	916	45	71.1	− 0.7	94	10	47	9	54	3.53	−1.43	2.26	28	0	5	8	8	14	s.	Civil Aeronautics Adm.
Trenton	Grundy	822	52	72.8	+ 0.6	94	11	52	1	53	6.05	+1.01	2.06	22–23	0	13	11	16	3	n.	W. H. Estes
Unionville	Putnam	1,062	55	69.2	− 2.1	92	4	49	1†	55	5.10	−0.09	1.84	22–23	0	12	8	8	14	n.	George D. Choate
Vandalia	Audrain	766	4	71.8§	......	94	11	..	..	9	4.94	......	1.20	22	0	10	14	9	7	e.	Mrs. Naomi K. Stoutz
Warrenton	Warren	880	66	72.8	− 0.6	96	5	43	1	58	6.83	+3.05	1.68	20–21	0	13	9	18	3	w.	W. T. Zimmerman
Keokuk, Iowa	Lee, Ia.	574	76	71.4	− 1.1	92	11	54	6	76	2.27	−1.86	0.69	22–23	0	12	10	12	8	nw.	U. S. Weather Bureau
Division means	**and extremes**	.....	..	**72.0**	**− 0.4**	**100**	**11**	**42**	**1†**	..	**5.24**	**+0.32**	**4.21**	**20–21**	**0**	**12**	**12**	**9**	**9**	**s.**	
Southwestern Division																					
Anderson ...1½ mi SW	McDonald	1,000	44	72.0	− 0.7	91	5†	45	2	49	11.49	+5.56	2.70	21–22	0	12	17	4	9	sw.	Samuel G. Chamberlain
Appleton City	St. Clair	800	53	74.8	+ 0.4	99	11	52	1	56	8.21	+3.19	2.92	21–22	0	13	15	11	4	se.	F. Paul Eye
Bolivar	Polk	1,071	45	74.0	+ 1.2	97	11	52	9	53	13.09	+7.78	3.52	21–22	0	15	10	13	7	sw.	Southwest Baptist College
Boonville	Cooper	650	10	71.8	− 0.8	95	11	50	1	71	6.27	+1.22	1.90	21–22	0	11	13	4	13	sw.	Boonville Water Dept.
Butler	Bates	865	2	74.0[c]	......	98[c]	11	50[c]	2	7	8.85	......	2.67	20	0	13	11[c]	6[c]	10[c]	e.	Harley W. Johnson
Camdenton	Pulaski	940	2	74.2	......	95	11	51	9	2	14.77	......	5.08	17	0	12	12	10	8	sw.	Mo. Conservation Com.
Caplinger Mills	Cedar	764	0	74.0	......	98	11	47	2†	22	10.35	+4.19	4.04	21–22	0	12	7	21	2	sw.	Sherman E. Price
Carthage	Jasper	962	14	74.8	......	95	11	48	9	24	11.58	......	2.64	21–22	0	15	12	15	3	sw.	Carthage W. and E. Plant
Clinton	Henry	786	55	73.7	− 0.1	99	11	52	1†	61	11.88	+6.98	2.08	21	0	12	7	10	13	s.	U. S. Weather Bureau
Eldon	Miller	934	53	73.1	+ 0.1	92	11	52	1	49	12.70	+8.66	3.35	20–21	0	18	10	16	4	sw.	Arthur Rothwell
Harrisonville	Cass	904	70	73.0	− 0.1	97	11	56	1†	73	10.84	+6.05	2.55	20–21	0	11	8	8	14	se.	Jeffrey B. Patterson
Jefferson City	Cole	557	58	72.0	− 1.8	96	11	44	1	66	9.92	+5.69	2.37	20–21	0	17	11	7	12	sw.	K. W. O. S. Radio Farm
Joplin Airport	Jasper	988	26	75.4	+ 2.0	96	11	52	9	43	13.53	+7.53	2.62	22	0	14	7	9	14	s.	Civil Aeronautics Adm.
Kansas City Univ.	Jackson	908	10	74.3	− 0.1	98	10	51	1	10	6.05	−0.36	2.06	17–18	0	12	15	10	5	sw.	University of Kansas City
Lakeside	Miller	595	17	72.4	− 2.6	95	11	47	1	17	12.31	+7.70	4.91	17–18	0	17	..	..	..	sw.	W. S. Frame
Lamar	Barton	980	60	72.4	− 1.8	95	11	49	9†	67	14.66	+9.12	5.60	21–22	0	15	12	7	11	sw.	Mrs. Marie Mann
Lebanon	Laclede	1,265	60	72.0	− 0.7	93	5†	48	1	61	11.23	+6.06	2.86	17–18	0	14	8	9	13	sw.	Mrs. Rosa E. Montelius
Lexington	Lafayette	688	63	74.0	+ 1.1	97	10†	53	1†	64	9.32	+4.77	3.08	17–18	0	13	5	16	9	s.	William H. Cullon
Lockwood	Dade	1,078	42	75.0	+ 1.4	96	11	52	1†	52	11.55	+5.87	4.32	21–22	0	15	12	15	3	sw.	Hubert A. Nieman
Marshall Airport	Saline	779	61	71.6	− 1.6	95	10†	46	1	58	5.70	+0.90	1.72	22	0	12	7	6	17	sw.	Civil Aeronautics Adm.
Marshfield	Webster	1,484	3	73.0	......	93	11	53	1†	7	8.57	......	1.80	18–19	0	14	13	7	10	sw.	Sho-Me Power Co.
Monett	Barry	1,317	1	73.2	......	93	11	54	9	1	9.82	......	2.90	21–22	0	15	10	14	6	s.	Mo. Univ. Fruit Exp. Sta.
Mountain Grove	Wright	1,463	47	73.2	+ 1.4	93	5	49	1	51	8.37	+3.43	2.29	18	0	10	11	13	6	nw.	Mo. Fruit Exp. Station
Mount Vernon	Lawrence	1,174	36	....	......	..	..	..	..	48	....	......	....	..	....	..	..	..	..	......	John C. Heying
Neosho	Newton	1,011	61	74.6	+ 0.8	93	11	47	2	65	11.68	+5.71	3.79	21–22	0	18	11	15	4	se.	U. S. Fisheries Station
Nevada	Vernon	862	55	75.4	+ 1.9	98	11	48	9	56	9.42	+3.97	3.57	21–22	0	13	12	5	13	sw.	Henry Kraft
Ozark Beach	Taney	700	8	75.6	......	98	5	49	2	23	11.07	+5.19	3.02	18–19	0	13	11	10	9	ne.	Empire District Elec. Co.
Sedalia	Pettis	910	35	73.8	− 0.4	95	11	50	1	37	15.17	+9.89	5.79	17–18	0	15	10	10	10	sw.	Dr. J. E. Cannaday
Seligman	Barry	1,542	47	73.3	+ 0.9	90	5	53	1	45	7.01	+2.06	1.56	25	0	12	14[c]	12[c]	1[c]	s.	Floyd E. Fawver
Seymour ....4 miles NE	Webster	1,642	42	....	......	..	..	..	..	42	....	......	....	..	0	..	..	..	..	......	Ira H. Hailey
Springfield...4 mi. NW	Greene	1,265	60	72.8	+ 1.1	94	11	54	9	60	10.96	+6.28	2.91	18–19	0	15	7	8	15	s.	U. S. Weather Bureau
Sweet Springs	Saline	700	7	72.7	......	98	11	47	1	7	13.20	......	4.14	14–15	0	12	9	17	4	s.	H. F. Nelson
Warrensburg	Johnson	878	61	74.8	+ 0.9	95[a]	10†	55	1	68	9.90	+4.84	2.40	17–18	0	12	14	10	6	sw.	Central Teachers College
Warsaw	Benton	687	47	74.7	+ 0.9	98	11	47	1	53	13.12	+7.82	2.90	20–21	0	15	7	11	12	sw.	Dora B. Johnson
Wasola	Ozark	1,294	7	73.6	......	95	5	56	2†	8	9.61	......	2.94	18–19	0	12	12	14	4	e.	A. W. Pinckney
Waynesville...1¼ mi. E	Pulaski	805	2	....	......	..	..	..	..	2	....	......	....	..	....	..	..	..	..	......	Fred M. Sanderson
Division means	**and extremes**	.....	..	**73.6**	**+ 0.1**	**99**	**11†**	**44**	**1**	..	**10.46**	**+5.28**	**5.79**	**17–18**	**0**	**13**	**11**	**11**	**8**	**sw.**	
Southeastern Division																					
Advance.... ¼ mile W	Stoddard	354	11	74.6	− 0.5	95	5	46	1	11	6.95	+2.65	1.82	28–29	0	15	8	12	10	sw.	U. S. Weather Bureau
Arcadia	Iron	926	67	71.2§	− 0.6	94	5	42	2	70	5.31	+1.17	1.15	28–29	0	10	7	5	18	s.	Arcadia College
Birch Tree... ½ mile E	Shannon	1,000	53	73.2[e]	+ 0.5	90[e]	11†	46[e]	1	54	6.27	−1.36	3.48	17–18	0	5	8[e]	7[e]	10[e]	s.	Mrs. Mildred E. Catlett
Black.......9 miles NW	Iron	1,000	55	71.6§	− 0.3	91[g]	5	..	..	55	5.71	+1.65	2.14	17–18	0	14	8[h]	8[h]	6[h]	sw.	J. Cornell Shy
Campbell	Dunklin	314	22	76.6	+ 1.1	96	5	53	1	22	5.32	+1.08	1.80	17–18	0	13	14	16	0	nw.	Mrs. Ruth Christian
Cape Girardeau	Cape Girardeau	347	3	76.0	......	95	5	54	2	48	5.42	+1.12	1.35	26–27	0	11	10	16	4	sw.	State Teachers College
Caruthersville	Pemiscot	265	52	78.0	− 0.4	94	5†	57	1	56	3.91	+0.10	1.17	17–18	0	9	14	13	3	s.	Victor T. Malloure
Clearwater Dam	Wayne	648	2	74.0§	......	94	12	44	1	2	8.34	......	2.85	26–27	0	14	9	13	8	sw.	U. S. Engineer Office
Crystal City	Jefferson	420	14	75.2	+ 0.9	98	12	45	1	14	4.44	−0.98	1.32	26–27	0	14	8	10	12	nw.	Richard K. Ragland
Doniphan	Ripley	344	44	75.0	0.0	97	5	46	1	44	8.44	+4.08	1.93	17–18	0	13	15	7	8	sw.	Boyce Lackey
Farmington	St. Francois	896	37	71.8	− 1.0	93	5	45	1	51	5.34	+1.46	1.48	26–27	0	12	7	6	17	s.	F. M. Karsch
Greenville...1 mile SW	Wayne	415	39	74.2	+ 0.6	95	5	44	1	41	8.26	+3.57	1.98	26–27	0	11	10	14	6	sw.	C. L. Rubottom
Jackson	Cape Girardeau	428	57	76.0	+ 1.9	96	5	47	1	58	5.76	+1.07	1.83	26–27	0	10	9	18	3	sw.	Danny Siebert

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Climatological Data for June 1948—Continued from preceding page

Stations	Counties	Elevation, feet	Temperature, in degrees, Fahr.							Precipitation, in inches						Number of days				Prevailing direction of wind	Observers
			Length of record, years	Mean	Departure from the normal	Highest	Date	Lowest	Date	Length of record, years	Total	Departure from the normal	Greatest in 24 hours [4]	Date	Total snowfall, unmelted	With precip., .01 inch or more	Clear	Partly cloudy	Cloudy		
Southeastern Division—	*Concluded*																				
Koshkonong	Oregon	958	47	75.5	+ 1.1	93	5	54	1	48	9.73	+5.23	3.64	18-19	0	13	15	6	9	s.	Mrs. Genevieve T. Smith
Licking...... 4 miles N	Texas	1,170	11	§72.1^c	− 0.9	91^c	5	47^c	9	11	9.67	+5.11	3.54	17-18	0	11	8^c	7^c	12^c	se.	Fern E. Austin
Marble Hill	Bollinger	532	53	72.4	− 1.6	95	5	42	1	55	7.32	+2.84	2.30	5-6	0	8	17	7	6	w.	R. A. DeWitt
Poplar Bluff	Butler	339	43	76.0	+ 0.6	96	5	54	1†	44	7.40	+3.28	2.32	17-18	0	11	13	7	10	s.	Osmon M. Richardson
Rolla	Phelps	1,202	48	70.6	− 2.4	92	11	52	9	64	7.33	+2.92	2.05	17-18	0	12	9	15	6	se.	Rolla School of Mines
St. Louis:																					
City Office		465	111	75.6	+ 0.6	93	5	57	16	111	3.98	+0.16	1.15	27-28	0	16	9	9	12	s.	**Section Center**
St. Louis Airport	St. Louis	556	11	74.7	+ 0.7	98	5	54	1	17	5.12	+0.83	1.48	26-27	0	13	7	7	16	sw.	U. S. Weather Bureau
St. Louis University	St. Louis City	578	36	74.6	− 0.6	93	5†	57	7†	36	4.22	+0.63	0.65	4-5	0	14	23	5	2	w.	St. Louis University
Salem	Dent	1,206	44	72.0	− 0.4	92	5†	45	1	47	8.69	+4.04	2.91	27-28	0	16	7	21	2	s.	E. E. Martin
Sikeston	Scott	318	41	76.8	+ 2.5	98	12	50	1	51	4.25	+0.06	0.97	14-15	0	12	6	23	1	nw.	Mrs. Lucy W. Humphreys
Union........1½ mi. SE	Franklin	520	10	72.6	− 1.5	95	5	43	1	31	5.78	+1.48	1.96	26-27	0	14	8	11	11	sw.	Cornelius Sieges
Vichy ....2 mi. NW	Maries	1,125	12	72.8	......	94	11	54	1	13	10.78	......	3.57	17-18	0	15	7	11	12	sw.	Civil Aeronautics Adm.
Wappapello Dam	Butler	475	9	75.4	− 0.7	95	5	54	1	9	6.70	+2.76	1.63	17-18	0	12	13	9	8	sw.	U. S. Engineer Office
Webster Groves	St. Louis	507	2	74.7	......	96	5	50	1	3	4.08	......	0.98	5	0	13	14	11	5	nw.	R. W. Lawrie
Weingarten	St. Genevieve	833	7	73.0§	......	*92*	26	49	1†	8	4.17	......	1.34	26	0	8	9	19	2	w.	William J. Miller
West Plains	Howell	1,005	11	73.0	− 0.4	94	5	47	2	11	8.28	+3.32	4.09	18	0	12	8	8	14	sw.	U. S. Weather Bureau
Willow Springs 500 ft E	Howell	1,238	7	72.5§	......	92	5	50	1	41	8.31	+3.48	2.73	18	0	10	12	9	9	s.	Allen Frazee
Cairo, Ill.	Alexander, Ill.	314	76	77.8	+ 0.5	97	5	56	1	77	5.16	+1.33	1.01	14-15	0	14	6	15	9	sw.	U. S. Weather Bureau
Division means	**and extremes**	.....	..	**74.2**	**0.0**	**98**	**5†**	**42**	**1†**	..	**6.58**	**+2.23**	**4.22**	**17-18**	**0**	**12**	**11**	**11**	**8**	**sw.**	
State means	**and extremes**	.....	..	**73.3**	**− 0.3**	**100**	**11**	**42**	**1†**	..	**7.43**	**+2.61**	**5.79**	**17-18**	**0**	**12**	**11**	**10**	**9**	**sw.**	

The departures from normal temperature are computed from the averages of the entire period for stations having 10 or more years of record. Departures of precipitation for stations with 15 years or more of record are computed from a normal or "standard mean", adjusted to a uniform 35-year period; for stations of 10 to 14 years the means for the period of record are used. The normal may be found by adding the departures when minus (−) or subtracting when plus (+). Figures and letters following stations indicate distance in miles and direction of station from the city Post Office, unless otherwise indicated. T. Trace or 0.005 inch or less. ^{a}, ^{b}, ^{c}, etc., number of days missing; for example, ^{b}, indicates two days missing. Italics data interpolated. § Partly interpolated. † And other dates. ‡ Received too late to be included in means and summaries. [4] Best available used for stations not equipped with recorders. Post office address of: Altona is Adrian; Clearwater Dam is Piedmont; Crane Mountain is Arcadia; East End is Goodland; Hailey is Cassville; High Lookout is Birch Tree; Macedonia Lookout is Doniphan; Oates Tower is Centerville; Perry is Center; Pineview Lookout is Cape Fair; Sugar Camp Lookout is Seligman; Topaz is Cabool; Wilderness Lookout is Lampe. (C) Airport. ¶ Indicates plus.

(Continued from page 41)

The dry, warm weather prevailing at the close of May continued until mid-June and most crops were suffering and deteriorating from lack of moisture by that time. However, timely and general rains set in on the 14-15th relieving this prolonged droughty condition, which had become progressively meanacing, and throughout the remainder of the month the moisture situation was more than ample for all requirements and fields were too wet to work, as a rule. The first two weeks were ideal for cutting and curing of first cuttings of alfalfa and red clover hay and for cultivating and planting corn and other row crops. Corn planting was practically completed during the month and the crop made rapid progress during the latter half, although fields were becoming weedy and grassy by the close due to wet fields preventing cultivation. The crop was in various stages of development, ranging from tasseling to just coming up, at the end of June. Considerable replanting was necessary due to cut-worms and poor germination, occosioned by the dry weather the first half of the month. Wheat continued to make good progress despite the dry weather, which helped to hasten maturity of the crop. By the end of June harvest by binders had begun in some areas, particularly the southeast portion, and yields per acre were expected to be record-breaking. Frequent rains and wet fields were hampering the work of cutting the wheat crop and much of it was being left for combining later. Oats suffered from the dry weather the first half of the month, and being sown later than unual, were heading rather short. However, the rains the last half of the month greatly improved that crop and a normal yield was indicated. The bulk of the soybean crop had been planted during the month and it was making rank growth and was in very good condition at the close. Cotton also made good growth and development during June and squares were appearing in most fields, at the close, although cultivation of the crop was hampered the latter half by frequent rains and wet fields. Pastures and hay crops responded rapidly to the ample moisture during the latter half of the month and second cuttings of alfalfa were ready but were being delayed by wet weather. Gardens and truck crops were greatly improved by the rains during the last half of June and were in good condition at the end of the month. Fruit prospects were only fair with about one-half a normal crop of peaches and apples expected. A period of a week or ten days of dry weather was badly needed as the month closed to cultivate fields and harvest the wheat, oats and hay crops.—M. R. W.

TEMPERATURE

The monthly mean for the State, 106 stations reporting, was 73.3°, or 0.3° cooler than the 61-year June average. The highest monthly mean was 78.0° at Caruthersville, and the lowest was 69.2° at Unionville. The highest reported was 100° at Brookfield on the 11th, and the lowest was 42° at Marble Hill and Elsberry on the 1st, Arcadia on the 2d, Edgerton on the 9th, and Fulton on the 10th.

PRECIPITATION

The monthly mean for the State, 210 stations reporting, was 7.43 inches, or 2.61 inches more than the 61-year June average. The greatest monthly amount was 17.29 inches at Concordia, and the least was 1.60 inches at Canton. The greatest amount reported in 24 hours was 5.79 inches at Sedalia on the 17-18th. The average number of days with 0.01 inch, or more, was 12.

MISCELLANEOUS PHENOMENA

Floods.—In Gasconade River, at Jerome, on 19th. In Grand River, at Chillicothe and below, 24th to 26th. In Missouri River, at Hermann and below, 23d and continued into July; in the reach from Waverly to Boonville, 24th to 25th; at Jefferson City, 25th to 26th; at Waverly, on 30th and continued into July. In Osage River, at Osceola and below, 22d and continued into July.

Fogs.—Heavy, 6th, 15th, 16th, 17th, 29th.

Hail.—Light, 5th at Camdenton, Springfield, Wasola, Webster Groves; 14th at Brunswick, Louisiana, Saverton, Marshall Airport, Warrensburg, near Sullivan; 15th at Eldon; 17th at Bolivar, Warrensburg, Vichy, in Pettis County; 18th at Oregon, Marshfield; 19th at Vanzant; 20th at Altona and Ashland; 22d near Sullivan; 26th at Birch Tree. Moderate, 5th at St. Louis University and scattered areas of St. Louis County

(Continued on page 46)

Daily Precipitation for June 1948

Stations	Drainage-basins	Day of month																															Total
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	..	
Northern Division																																	
Albany	Grand	....	....	....	....	....	....	T.	....	....	....	....	.14	....	.01	.22	....	.29	T.	....	.90	.80	.52	.86	.02	T.	T.	....	.57	....	.22	....	4.05
Amity	do	....	....	....	....	....	....	T.	....	....	....	....	T.	....	T.	.80	....	.60	1.40	....	1.81	.70	.30	.97	.31	.09	....	.33	.58	....	.02	....	7.91
Auxvasse	Missouri	....	....	....	....	.05	....	....	....	....	....	....	.01	....	....	.43	....	.23	.48	....	.15	1.27	2.45	....	....	.90	....	.32	.26	.05	.04	....	6.64
Bethany	Grand	....	....	....	....	....	....	T.	....	....	....	....	.19	....	T.	.23	....	.25	....	....	.94	1.25	.35	1.49	.24	T.	T.	.55	*	.38	.02	....	5.89
Bowling Green²	Mississippi	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.25	....	.50	....	....	.70	1.00	.27	....	.49	.79	.47	....	....	.11	....	4.58
Brookfield²	Grand	....	....	....	....	....	....	....	....	....	....	....	....	.14	.50	....	.16	....	.70	....	....	3.10	.57	.55	....	.05	....	....	.24	.04	....	....	6.05
Browning.....3 mi. NE	do	....	....	....	....	....	....	T.	....	....	T.	....	.32	....	.13	.16	....	.19	.07	....	.44	1.01	.29	1.31	....	.50	.01	T.	.25	....	.07	....	4.75
Brunswick²	do	....	....	....	....	....	....	....	.02	....	....	....	.05	.03	....	.48	.45	....	.85	.10	....	.78	.83	.97	....	.02	.07	....	.15	....	.05	....	4.85
Canton, Lock No. 20²	Mississippi	....	....	....	....	....	....	....	....	....	....	....	....	T.	T.	T.	.05	....	.02	....	....	.50	.09	.21	.04	.03	.09	.23	.02	.10	.22	....	1.60
Carrollton	Missouri	....	....	....	....	....	....	....	....	....	....	....	.04	....	.01	1.34	....	.64	.93	....	.98	.22	1.27	.79	....	.08	....	....	.27	....	T.	....	6.57
Centralia²	Mississippi	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.14	.30	....	.55	....	....	.65	.84	.19	....	.34	.67	....	.25	....	.14	....	4.07
Chillicothe²......(B)	Grand	....	....	....	....	....	....	....	....	....	....	....	....	.05	....	1.08	.90	....	.57	....	....	2.27	.39	.65	....	....	.05	T.	.30	.02	.11	....	6.39
Chillicothe³ 2 mi ESE (C)	do	....	....	....	....	....	....	.03	....	....	....	....	.02	....	.98	.81	....	.34	.05	....	.78	1.33	1.11	.01	....	.23	T.	....	.38	.04	....	....	6.11
Columbia¹, ⁵	Missouri	....	....	....	....	.01	....	.01	.03	....	....	.01	.02	....	T.	.50	....	1.22	.33	....	.84	.48	1.62	.02	T.	.69	.51	.01	.40	.01	....	....	6.71
Columbia⁵..9 mi. WNW	do	....	....	....	....	....	....	....	T.	....	....	....	.04	....	....	.55	....	.18	.77	....	.35	.77	2.22	.03	....	1.27	....	.04	.30	T.	....	....	6.52
Conception	do	....	....	....	T.	....	....	T.	....	....	....	....	.12	....	....	.19	....	.52	....	....	1.14	.46	.18	.98	....	.24	.53	.13	.64	....	.20	....	5.33
Edgerton²	do	....	....	....	....	.05	....	....	.04	....	....	....	....	....	....	2.56	.12	....	1.20	....	.34	1.13	.45	.93	.10	....	....	T.	.69	.04	.09	....	7.74
Edina²	Mississippi	....	....	....	....	....	....	....	.10	....	....	....	....	.22	....	T.	....	....	.10	....	....	2.60	.20	1.55	T.	....	.14	.50	.10	.04	.26	....	5.81
Elsberry S. C. S.²	do	....	....	....	....	....	.58	.04	....	....	....	....	....	.02	....	.85	.21	....	.23	....	....	.79	.73	....	....	.24	.48	.34	.03	.08	.06	....	4.68
Fayette	Missouri	....	....	....	....	....	....	T.	....	....	....	....	T.	....	....	.52	....	.40	.33	....	.27	.49	1.19	.02	T.	.20	.01	T.	.15	T.	....	....	3.58
Fulton²	do	....	....	....	....	....	.12	....	.01	....	....	....	....	.02	....	.91	.29	....	1.37	.09	.10	2.55	1.36	.34	....	.29	.56	.05	.62	.04	.01	....	8.73
Gallatin²	Grand	....	....	....	....	....	....	....	....	....	....	....	T.	T.	T.	.10	1.01	....	.52	....	T.	1.51	.51	1.39	.05	....	T.	....	.36	.05	.09	....	5.59
Grant City	do	....	....	....	....	....	....	....	....	....	....	.22	....	....	....	.08	....	.19	.04	....	1.16	.42	.16	.08	....	.13	.04	....	.66	....	.11	....	3.29
Hannibal¹.........(A)	Mississippi	....	....	....	....	....	....	.05	....	....	....	....	T.	....	1.03	.20	....	.22	.19	....	.48	.92	.43	.09	....	.81	.17	.28	.07	.07	....	....	5.01
Hannibal².........(B)	do	....	....	....	....	....	....	....	.05	....	....	....	....	....	....	.85	.20	....	.34	T.	....	1.10	.41	.13	T.	.10	.74	.46	.08	T.	.05	....	4.51
Kahoka²	do	....	....	....	....	....	....	....	....	....	....	....	....	.10	.03	.48	T.	....	....	....	....	1.02	.16	2.22	.11	....	....	.20	.04	.11	.12	....	4.59
Kansas City Airport¹, ⁵	Missouri	....	....	....	T.	....	....	....	T.	....	.02	....	.04	....	T.	.65	....	1.45	.05	T.	1.62	.46	.61	....	.04	.01	....	T.	.48	.02	....	....	5.45
Kidder²	Grand	....	....	....	....	....	....	....	....	....	....	....	....	.03	....	.52	.52	....	1.72	....	....	4.21	.45	....	1.53	.04	.11	T.	.49	.03	.05	....	9.70
King City	Missouri	....	....	....	....	....	....	....	....	....	....	....	.02	....	.26	.30	....	.70	.17	....	.95	.24	.59	2.97	.30	.12	.23	....	.54	....	.10	....	7.49
Kirksville	Mississippi	....	....	....	....	....	....	T.	....	....	....	....	.16	....	.02	.05	....	.09	.55	....	.38	1.27	.27	1.67	....	.27	.02	.01	.18	....	.12	....	5.06
Kirksville Airport³, ⁵	do	....	....	....	....	....	....	T.	....	....	T.	....	.17	....	.05	.06	....	.06	.68	....	.80	1.93	2.22	.29	.01	.41	.02	T.	.24	.12	....	....	7.06
LaBelle²	do	....	....	....	....	....	....	....	....	....	....	....	....	.03	.02	....	.02	....	.10	....	....	1.41	.15	.53	.02	.01	....	.02	.12	....	.38	....	2.81
Lathrop	Grand	....	....	....	....	....	....	....	....	....	....	.04	.01	....	....	2.72	....	.26	1.15	....	2.03	.21	.98	.22	....	....	....	....	.79	.02	....	....	8.43
Linneus	do	....	....	....	....	....	....	....	....	....	....	....	.65	....	.35	.62	....	.26	....	.19	.81	1.50	.46	1.23	....	.49	.02	....	....	.31	....	....	6.89
Louisiana.........(A)	Mississippi	....	....	....	....	T.	.24	T.	....	....	....	....	.02	....	T.	.33	....	.20	.15	....	....	.56	1.10	....	....	.95	.31	.49	....	.05	.07	....	4.47
Louisiana².........(B)	do	....	....	....	....	....	.10	T.	.05	....	....	....	....	T.	....	.67	.34	....	.27	.04	....	.41	.26	.15	....	.26	.60	1.15	....	T.	.09	....	4.39
Lucerne²	Grand	....	....	....	....	....	....	....	....	....	....	....	....	.20	....	.06	....	....	.14	....	....	.95	.09	1.38	.07	....	.08	.21	.41	.04	.18	....	3.81
Macon²	Chariton	....	....	....	....	....	....	....	....	....	....	....	....	.09	....	.02	.15	....	.50	....	....	.97	.39	.75	....	.27	.26	....	.24	.12	.04	....	3.80
Madison²	Mississippi	....	....	....	....	....	....	....	....	....	....	....	T.	....	....	*	.28	....	.91	....	....	.55	.60	.20	....	.25	.93	T.	.23	....	....	....	3.95
Martinsburg²	Missouri	....	....	....	....	....	T.	T.	T.	....	....	....	....	T.	....	....	.44	....	.50	.03	....	1.30	1.81	.44	....	.29	.11	.25	.15	.18	.06	....	5.56
Maryville	do	....	....	....	.03	....	....	T.	....	....	....	....	.14	....	....	.11	....	.29	....	....	.91	.22	.33	....	....	.99	.36	T	1.30	.19	....	....	4.87
Memphis²	Mississippi	....	....	....	....	....	....	....	....	....	....	....	....	.12	.03	T.	T.	....	T.	....	....	.96	.08	1.15	.12	....	.02	.39	.10	.09	.33	....	3.39
Mexico²	do	....	....	....	....	....	....	....	....	....	....	....	....	....	....	*	.37	....	.51	....	....	.75	1.56	.14	....	.15	.72	.12	.27	.04	....	....	4.63
Milan²	Grand	....	....	....	....	....	....	....	....	....	....	....	....	.26	....	....	.18	....	.12	....	....	1.07	.18	1.25	.02	....	.03	....	.35	....	.32	....	3.78
Moberly² ....3½ mi. NE	Mississippi	....	....	....	....	....	....	....	....	....	....	....	....	T.	....	T.	.30	....	.45	.05	T.	.65	.60	.50	....	.03	.70	....	.17	T.	.07	....	3.52
Monroe City	do	....	....	....	....	....	....	T.	....	....	....	....	....	....	T.	.23	....	.26	.22	....	....	1.48	.46	.10	....	2.85	....	.19	.12	.03	.18	....	6.12
New Florence³, ⁵ 1 mi SE	Missouri	....	....	....	....	.68	....	....	T.	....	....	....	.01	....	.28	.28	....	.53	.23	....	.87	1.16	1.12	....	T.	.55	.14	.20	T.	.12	T.	....	6.17
Oregon¹	do	....	....	....	.03	....	....	....	T.	....	....	....	.02	....	....	.33	....	.77	1.33	....	1.38	.07	.85	.45	....	.10	....	.13	2.07	T.	....	....	7.53
Palmyra²	Mississippi	....	....	....	....	....	....	....	....	....	....	....	....	....	.24	.58	.14	....	.50	....	....	.99	.36	.06	....	.90	.77	1.00	.08	....	.09	....	5.71
Paris²	do	....	....	....	....	....	....	....	....	....	....	....	....	....	....	T.	.23	....	.55	....	....	.60	.57	.15	....	.28	.67	.22	.15	....	....	....	3.42
Perry ....1 mile E	do	....	....	....	....	....	....	.02	.05	....	....	....	....	....	.12	.20	....	.05	.25	....	....	.50	.85	....	....	1.60	.03	.45	.15	....	....	....	4.27
Philadelphia	do	....	....	....	....	....	....	.05	....	....	....	....	T.	....	.55	.11	....	.15	.40	....	T.	1.02	1.24	.21	....	1.37	.06	.12	.07	.05	.09	....	5.49
Polo²	Missouri	....	....	....	....	....	....	....	....	....	....	....	....	.02	....	3 28	.45	....	2.26	....	.25	1.25	.45	.80	....	.04	....	....	.30	.03	T.	....	9.13
St. Charles²	do	....	....	....	....	.02	.74	T.	T.	....	....	....	....	T.	....	T.	.08	....	.13	.05	....	.65	.13	.35	....	.05	.24	.70	.50	T.	.15	....	3.79
St. Joseph Airport¹, ⁵	do	....	....	....	.02	....	....	....	T.	....	....	....	T.	....	....	1.18	....	.36	.57	....	1.87	.25	1.28	1.55	....	.04	....	.04	.35	T.	....	....	7.01
Salisbury	Chariton	....	....	....	....	....	....	T.	T.	....	....	....	.03	....	....	.39	....	.32	.48	....	.31	.13	.97	.64	....	.02	....	T.	.25	....	.13	....	3.67
Saverton, Lock No. 22²	Mississippi	....	....	....	....	....	....	.05	T.	....	....	....	....	....	.09	.52	.24	....	.34	T.	T.	.62	.41	.05	T.	.14	.60	.42	.29	....	.06	....	3.83
Shelbina	do	....	....	....	....	....	....	.06	....	....	....	....	T.	....	.07	.13	....	.24	.14	....	T.	.71	.40	.38	....	.70	.12	.03	.16	....	.24	....	3.38
Shelbyville	do	....	....	....	....	....	....	....	....	....	....	....	....	....	.24	.27	....	....	....	....	....	.84	.37	.22	....	.97	....	....	.27	....	.12	....	3.30
Steffenville	do	....	....	....	....	....	....	.03	....	....	....	....	.02	....	.26	.06	....	.11	.30	....	....	.90	.27	.25	.05	.39	.07	.01	.19	.04	.09	....	3.04
Tarkio³	Missouri	....	....	....	....	....	....	....	....	....	....	....	.07	....	T.	T.	....	.17	T.	T.	.95	T.	T.	....	....	T.	.08	T.	2.26	T.	....	....	3.53
Trenton²	Grand	....	....	....	....	....	....	T.	....	....	....	T.	....	.25	....	.26	.16	....	.28	....	....	1.25	.32	2.06	.22	T	.30	.57	.28	.08	.02	....	6.05
Troy²	Mississippi	....	....	....	....	....	.46	.04	.01	....	....	....	....	....	....	.55	.06	....	.27	.02	....	2.15	.75	.09	....	.53	.35	.49	.09	.03	.08	....	5.97
Unionville²	Chariton	....	....	....	....	....	....	....	.05	....	....	....	....	.14	....	T.	.15	....	.41	....	....	.79	.07	1.84	.04	....	.09	....	1.35	.08	.09	....	5.10
Vandalia²	Mississippi	....	....	....	....	....	....	T.	....	....	....	....	T.	....	....	.68	....	.23	.30	....	....	.66	1.20	T.	....	1.07	.35	.35	.05	.05	....	....	4.94
Warrenton	do	....	....	....	....	....	1.61	....	.02	....	....	....	T.	T.	....	.51	....	.16	.33	T.	.14	1.68	.91	....	....	.22	.36	.69	.03	.17	....	....	6.83
Keokuk, Iowa¹	do	....	....	....	T.	....	....	T.	....	....	....	....	.07	....	.28	.06	....	T.	T.	....	.20	.38	.10	.64	.01	.02	.21	....	.07	.23	....	....	2.27
Southwestern Division																																	
Altona²	Osage	....	....	....	....	....	....	....	....	....	....	....	....	.07	....	.30	....	T.	1.23	.95	1.30	1.87	1.48	.45	....	.42	1.10	....	.43	.08	....	....	9.68
Anderson² ...1½ mi. SW	Neosho	....	....	....	....	....	....	....	....	....	....	....	....	T.	1.66	....	.23	1.55	T.	....	....	.81	2.70	1.62	.92	.40	.24	.94	.30	.12	....	....	11.49
Appleton City	Osage	....	....	....	....	.13	....	....	....	....	....	T.	.06	....	....	.27	....	1.17	.08	.69	1.08	.38	2.92	.08	T.	.74	.06	....	.55	....	....	....	8.21
Ava Ranger Station²	White	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Bolivar	Osage	....	....	....	....	....	T.	....	....	....	....	....	T.	....	.15	.20	.01	1.56	.44	.78	.68	2.56	3.52	.80	.02	1.01	.64	.03	.69	T.	....	....	13.09
Boonville².........(A)	Missouri	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.42	.29	....	1.13	....	.10	1.10	1.90	.45	.08	....	.52	.02	.26	....	....	....	6.27
Boonville².........(B)	do	....	....	....	....	....	....	....	....	....	....	....	....	.01	....	.25	.40	....	1.12	T.	....	1.20	1.78	.67	.02	.07	.47	....	.25	....	....	....	6.24
Bradleyville²	White	....	....	....	....	....	.76	....	....	....	....	....	....	....	....	....	.19	.56	3.06	*	4.10	.10	....	....	.33	.10	.56	.30	.12	.26	.10	....	10.54
Buffalo²	Osage	....	....	....	....	....	.40	....	....	....	....	....	....	....	.13	1.81	.10	....	1.70	2.48	1 02	1.90	3.38	.40	.23	....	1.18	.30	.55	.02	T.	....	15.60
Butler	do	....	....	....	T.	T.	....	....	....	....	....	T.	.01	....	....	.51	....	.87	.55	....	2.67	.33	2.28	.03	....	1.17	.13	.08	.18	.04	....	....	8.85
Camdenton	do	....	....	....	....	2.21	....	....	....	....	....	....	....	.27	....	.76	....	1.28	3.80	....	.49	.83	2.02	.20	....	.40	.21	....	2.30	....	....	....	14.77
Caplinger Mills	do	....	....	....	....	....	T.	....	....	....	....	....	....	....	....	.62	T.	1 25	.14	.06	.45	2.10	4.04	.40	....	.71	.14	....	.39	.05	....	....	10.35
Carthage	Neosho	....	....	....	....	....	....	....	....	....	....	....	....	....	.22	.74	1.05	.04	.76	.12	.30	2.59	2.64	1.27	.15	1 07	.29	....	.24	.10	....	....	11.58
Cassville²	White	....	....	....	....	....	....	....	....	....	....	....	....	....	.41	.01	.14	.51	38	.02	....	.10	.03	1.37	.83	2.06	.24	.59	.15	.10	....	....	6.94
Chadwick²	do	....	....	....	....	....	.40	....	....	....	....	....	....	....	.30	.10	.28	.40	2.15	3.68	2.68	T.	....	.15	.25	....	1.86	.51	.10	.30	.10	....	13.26
Clinton³	Osage	....	....	....	....	T.	....	....	....	....	....	....	T.	T.	T.	.32	....	1.98	1.26	....	1.90	2 08	2.01	.09	T.	1.68	.02	T.	.50	.02	.02	....	11.88
Concordia	Missouri	....	....	....	....	....	....	....	T.	....	....	....	.11	.06	.37	3.76	....	*	3.56	....	4.00	1.32	1.89	.84	....	.50	T.	....	.88	....	T.	....	17.29
Crocker	Osage	....	....	....	....	....	.71	....	....	....	....	....	T.	.05	....	1.80	....	1.72	2.68	....	.35	1.46	2.40	....	T.	.40	.36	1.87	.28	.17	....	....	14.25
Eldon	Missouri	....	....	....	....	.49	.02	....	T.	....	....	....	.02	.25	....	1.60	....	1.12	1.93	.08	.67	3.35	1.67	.06	.01	.65	.04	.02	.63	.09	....	....	12.70
Eldorado Springs	Osage	....	....	....	....	....	....	....	....	....	....	....	.03	....	....	.24	T.	1.32	....	.27	.59	2.36	3.33	.21	....	.57	.15	.03	.73	.05	....	....	9.88
Elijah²	White	....	....	....	....	....	.48	....	....	....	....	....	....	....	....	.25	.50	.50	1.15	1.05	.35	....	....	....	.45	....	.47	.10	....	.40	.30	....	6.00
Forsyth²	do	....	....	....	....	....	.05	....	....	....	....	....	....	....	....	.40	.20	.65	2 20	3.65	....	....	....	.05	.50	.03	.73	.60	.10	.90	.03	....	10.09
Galena²	do	....	....	....	....	....	....	....	....	....	....	....	....	....	.33	.51	.13	.92	2.45	1.03	02	05	....	.30	.50	.32	.36	.72	.07	.23	.04	....	7.98
Granby²	do	....	....	....	....	....	....	....	....	....	....	....	....	....	.92	*	.46	1.10	.20	.03	.30	.78	2.57	.81	.95	....	.41	.61	....	.35	....	....	9.49
Hailey	do	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Harrisonville²	Osage	....	....	....	....	....	....	....	....	....	....	....	....	.32	....	.20	T.	....	1.48	....	1.42	2.55	1.11	1.52	....	.46	.75	.01	1 02	T.	T.	....	10 84
Jefferson City² ....(A)	Missouri	....	....	....	....	....	.06	....	.02	....	....	....	....	.39	....	.60	.46	....	1.15	.14	.04	2.37	1.28	.22	....	.45	1.31	.07	.66	.14	.56	....	9.92
Jefferson City².....(B)	do	....	....	....	....	....	.01	T.	T.	....	....	....	....	.23	T.	.62	.47	T.	1.06	.16	.09	2.45	.94	.16	.01	.46	.93	.03	.68	.17	.46	....	8.93
Joplin Airport³	Neosho	....	....	....	....	....	....	....	....	....	....	....	....	.04	.33	.92	1.16	.70	.05	....	.27	2.33	2.62	1.39	T.	1.20	2.35	T.	.12	.05	....	....	13.53
Kansas City University	Missouri	....	....	....	....	....	....	....	T.	....	....	T.	.21	....	T.	.35	....	2.00	.06	....	1.42	.02	1.09	.11	....	.16	....	.03	.59	....	.01	....	6.05
Lakeside², ⁵	Osage	....	....	....	....	....	.60	....	....	....	....	.13	....	.04	....	1.43	.18	....	4.91	.38	.26	1.07	1.37	.27	.02	....	.53	.05	.76	.15	.16	....	12.31
Lamar²	Neosho	....	....	....	....	....	....	....	....	....	....	....	....	....	.22	.20	.48	.14	1.49	.09	.73	2.55	5.60	.68	.37	....	1.65	.25	.10	.11	....	....	14.66

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Stations	Drainage basins	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	..	Total
Southwestern Division—	*Concluded*																																
Lebanon[2]	Osage	....	....	....	....	....	.72	....	....	....	....	....	....	....	.02	.48	1.29	....	2.29	.57	.50	.63	2.30	.80	T.	....	.92	.89	.79	.03	T.	....	11.23
Lexington[2]	Missouri	....	....	....	....	....	....	....	....	....	....	....	.19	.03	....	1.34	.19	....	3.08	....	.20	1.44	1.35	.66	....	.03	.10	....	.69	....	.02	....	9.32
Lockwood[2]	Osage	....	....	....	....	....	....	....	....	....	....	....	....	.01	.63	.30	.87	.08	2.01	.17	.71	1.21	4.32	.84	T.	....	.30	.27	.17	.16	....	....	11.55
Mansfield[2]	White	....	....	....	....	....	2.50	....	....	....	....	....	....	....	.12	....	.46	.06	1.57	2.30	.55	.07	....	.11	.17	....	.87	.62	.18	.53	.11	....	10.22
Marshall Airport[3]	Missouri	....	....	....	....	....	....	....	T.	....	....	....	T.	....	.28	.38	....	.42	1.00	....	1.18	.18	1.72	.03	.02	.05	T.	.01	.43	T.	T.	....	5.70
Marshfield	White	....	....	....	....	....	.40	....	....	....	....	....	....	.03	.79	.55	T.	.52	.86	.94	.89	.12	1.61	.03	T.	1.50	T.	.23	.10	T.	....	....	8.57
Monett[2]	Neosho	....	....	....	....	....	....	....	....	....	....	....	....	....	.74	.09	.23	.92	1.42	.02	....	.57	2.90	1.02	.67	.20	.14	.60	.13	.17	....	....	9.82
Mountain Grove[2]	Gasconade	....	....	....	....	....	2.19	....	....	....	....	....	....	....	T.	....	.26	....	1.43	2.29	.31	....	....	....	.04	....	.59	.31	.70	.25	....	....	8.37
Mount Vernon[2]	Neosho	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Neosho	do	....	....	....	....	....	....	....	....	....	....	....	....	T.	1.42	.77	1.10	.10	....	.06	....	1.16	3.79	1.26	.23	.12	.88	T.	.21	.58	....	....	11.68
Nevada	Osage	....	....	....	....	....	....	....	....	....	....	....	....	....	T.	.54	.05	.59	.04	.07	.62	2.25	3.57	.26	....	.42	.34	....	.47	.20	....	....	9.42
Osceola[2]	do	....	....	....	....	....	.30	....	....	....	....	....	.30	....	....	.61	.04	....	1.85	.26	.54	3.06	2.02	.59	.06	.06	.39	.25	1.53	.07	....	....	11.93
Ozark[2]	White	....	....	....	....	....	.17	....	....	....	....	....	....	....	.30	.21	.47	1.44	2.49	2.64	.54	....	....	.15	.17	....	1.18	.42	....	.25	....	....	10.43
Ozark Beach[2]	do	....	....	....	....	....	....	....	....	....	....	....	....	....	T.	1.05	.24	1.20	2.50	2.95	.07	....	....	.17	.49	.07	.17	.80	.19	1.17	T.	....	11.07
Pierce City	Neosho	....	....	....	....	....	....	....	....	....	....	....	....	....	.65	.35	1.02	.15	.82	....	.35	.82	3.00	1.60	.18	.50	.75	....	.11	1.35	....	....	11.65
Pineview Lookout[2]	White	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Pleasant Hill[2]	Osage	....	....	....	....	....	....	....	....	....	....	....	T.	.42	....	.30	.25	....	1.92	....	1.22	1.40	1.60	3.20	....	.19	1.21	....	.81	....	.03	....	12.55
St. Thomas[2]. 2¼ mi SW	do	....	....	....	....	....	.03	....	....	....	....	....	....	....	....	1.25	.25	....	2.13	.35	.14	1.09	1.28	.19	....	.15	.41	.14	.45	.06	....	....	§7.92
Sedalia	Missouri	....	....	....	....	....	....	....	.02	....	....	....	.19	.02	....	1.38	....	.65	5.14	.44	1.53	.99	3.39	.08	.02	.20	.49	....	.63	....	....	....	15.17
Seligman[2]	Neosho	....	....	....	....	....	....	....	....	....	....	....	....	....	.52	.11	....	.64	.09	....	....	.09	....	1.36	1.08	1.56	.22	1.09	.15	.10	....	....	7.01
Seymour[2] 4 mi. E	White	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Shell Knob[2] 3 mi. SE	do	....	....	....	....	....	.02	....	....	....	....	....	....	....	.32	*	.87	.93	1.07	.22	....	.01	....	.56	.47	.31	.05	.91	.07	.20	....	....	5.51
Springfield[1,5]. 4 mi. NW	Osage	....	....	....	....	.48	....	....	....	....	....	....	T.	....	1.18	.27	.04	1.35	2.52	.53	.09	1.75	.28	.58	T.	1.38	.18	.17	.16	T.	....	....	10.96
Stover[2]	Missouri	....	....	....	....	....	.48	....	....	....	....	....	....	.03	....	1.33	.01	....	4.93	.05	.46	1.31	2.00	.47	.03	.49	.98	.66	.36	.12	....	....	13.71
Sugar Camp Lookout[2]	White	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Sweet Springs	Missouri	....	....	....	....	....	....	....	....	....	....	....	.19	.05	.09	4.05	....	.47	3.36	....	1.02	.83	1.72	.09	....	.34	....	....	.99	....	....	....	13.20
Tecumseh[2] ¼ mi. W	White	....	....	....	....	....	.63	....	....	....	....	....	....	....	....	....	....	.43	2.36	1.43	.25	....	....	....	.25	....	.10	.03	.05	.40	T.	....	5.93
Topaz[2]	do	....	....	....	....	....	.70	....	....	....	....	....	....	....	....	....	.21	.11	1.88	2.81	.35	....	....	.45	....	....	1.07	.30	.05	.19	.22	....	8.34
Vanzant[2] 3¾ mi. SE	do	....	....	....	....	....	.92	....	....	....	....	....	....	....	....	....	.17	....	1.73	2.81	.57	....	....	....	.14	*	*	*	*	2.50	....	....	8.84
Waco[2]	Spring	....	....	....	....	....	....	....	....	....	....	....	....	....	.57	.12	.90	.98	.66	....	....	1.15	4.91	1.10	.75	1.21	1.44	.37	.16	.10	....	....	§14.42
Warrensburg	Missouri	....	....	....	....	....	....	....	....	....	....	....	.25	.03	....	2.00	....	1.56	.84	....	1.02	.99	1.97	.02	T.	.64	.01	....	.57	....	....	....	9.90
Warsaw[2] (A)	Osage	....	....	....	....	....	.07	....	....	....	....	....	....	T.	....	1.00	.10	....	2.40	.42	.55	2.90	2.00	.90	.06	.07	.50	.35	1.25	.55	....	....	13.12
Warsaw[2] (B)	do	....	....	....	....	....	T.	....	....	....	....	....	....	....	....	1.16	T.	....	2.43	.40	.68	2.38	2.18	.62	T.	T.	.44	.31	.99	.35	....	....	11.94
Wasola[2]	White	....	....	....	....	....	1.64	....	....	....	....	....	....	....	....	....	.24	.49	2.45	2.53	.41	....	....	....	.20	....	.64	.20	.20	.10	.51	....	9.61
Waverly[2]	Missouri	....	....	....	....	....	....	....	....	....	....	....	....	.04	....	4.00	.30	....	1.70	....	....	1.18	1.13	1.23	....	....	.20	....	.41	.03	....	....	§10.22
Waynesville 1½ mi. E	Gasconade	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Wilderness Lookout[2]	White	....	....	....	....	....	....	....	....	....	....	....	....	....	*	.14	.31	.71	1.72	.24	....	....	....	.14	.56	.58	.28	.68	.03	1.06	....	....	6.45
Southeastern Division																																	
Advance[3] ½ mile W	St. Francis	....	....	....	....	.63	.05	....	....	....	....	....	.02	T.	1.24	.02	....	.24	.81	.01	T.	....	....	.47	.07	.24	.23	1.08	.78	1.06	....	....	6.95
Alton 10 miles SE	Black	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Annapolis[2] 7 mi. W	do	....	....	....	....	....	.65	....	....	....	....	....	....	.02	....	.35	.26	....	2.41	.23	....	....	....	....	.34	....	.30	2.35	.31	.78	.01	....	8.01
Arcadia[2]	St. Francis	....	....	....	....	....	.18	....	....	....	....	....	....	....	....	.42	....	....	.47	.31	....	....	....	....	.18	....	.97	1.05	.58	1.10	.05	....	5.31
Belleview[2]	Meramec	....	....	....	....	....	T.	....	....	....	....	....	....	....	.02	1.03	.04	....	1.10	....	....	T.	....	....	.10	....	.20	1.41	.17	.40	.02	....	4.49
Bernie[2]	St. Francis	....	....	....	....	.24	....	....	....	....	....	....	....	....	....	.39	.29	....	1.60	.20	....	....	....	....	.60	....	.51	....	.30	.30	....	....	4.43
Birch Tree[2] ½ mile E	Black	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	3.48	....	....	....	....	....	.42	....	.22	1.30	....	.85	....	....	6.27
Black 9 miles NW	do	....	....	....	....	....	.72	.08	....	....	....	....	....	....	.11	.38	....	.87	1.27	.15	.10	....	....	.25	....	.28	.03	.90	.42	.15	....	....	5.71
Bloomfield[2]	St. Francis	....	....	....	....	T.	.18	....	....	....	....	....	....	T.	....	.80	.10	....	.29	.83	....	....	....	....	.40	....	.94	.44	.12	.79	.24	....	5.13
Bunker[2] 4 miles NW	Black	....	....	....	....	....	.15	....	....	....	....	....	....	.05	....	.70	.18	....	1.75	.05	....	....	....	....	....	.25	.45	1.25	.75	.40	.02	....	6 00
Campbell	St. Francis	....	....	....	....	.04	.31	....	....	....	....	....	....	....	T.	.38	.10	.76	1.04	.05	....	....	....	1.00	.42	.48	....	.21	.03	.50	....	....	5.32
Cape Girardeau (A)	Mississippi	....	....	....	....	....	.61	....	T.	....	....	....	....	.07	.04	.61	.24	....	.50	....	....	....	....	.11	.07	.63	T.	1.35	T.	1.19	....	....	5.42
Cape Girardeau[2] (B)	do	....	....	....	....	....	.58	....	....	....	....	....	....	.06	....	.54	.05	....	.48	.10	....	....	....	....	.15	....	.59	.92	.23	.20	1.04	....	4.94
Caruthersville[2]	do	....	....	....	....	T.	.35	....	....	....	....	....	....	....	....	.24	.88	....	1.17	.36	....	....	....	....	.66	T.	.14	....	.03	.08	....	....	3.91
Centerville(1)[2]	Black	....	....	....	....	.05	.45	....	....	....	....	....	....	.07	....	.33	.12	....	2.00	.23	....	....	....	....	.43	....	.46	1.39	1.01	.96	....	....	7.50
Centerville(2)[2]	do	....	....	....	....	.03	.33	....	....	....	....	....	....	.02	T.	.25	.09	....	2.41	.27	....	....	....	....	.46	....	.35	1.43	.82	1.04	.01	....	7.51
Clearwater Dam[2]	do	....	....	....	....	.04	.30	....	....	....	....	....	....	.02	.02	.25	.49	....	1.61	.15	....	....	....	....	1.10	....	.60	2.85	.11	.79	.01	....	8.34
Cook Station[2]	Meramec	....	....	....	....	....	1.25	....	....	....	....	....	....	....	.10	1.02	.26	....	3.58	.07	.08	.18	.58	.06	....	....	.28	.29	2.10	.16	....	....	10 01
Crane Mountain[2]	St. Francis	....	....	....	....	....	.38	....	....	....	....	....	....	....	....	.62	.10	....	1.68	.19	....	....	....	....	.27	....	.20	1.77	.27	.92	....	....	6.40
Crystal City	Mississippi	....	....	....	....	.01	1.28	....	....	T.	....	T.	....	....	T.	.07	T.	.21	.10	....	.11	.43	.16	....	.01	.04	.31	1.01	.33	.37	....	....	4.44
Cuba[2]	Meramec	....	....	....	....	....	.31	....	....	....	....	....	....	.10	....	1.36	.24	....	2.05	.12	.33	1.33	.92	.06	....	T.	.09	1.09	.95	.06	.01	....	9.02
Deering[2]	St. Francis	....	....	....	....	....	.41	....	....	....	....	....	....	....	....	.22	.13	....	2.20	.77	....	....	....	....	.35	....	.21	....	.15	.29	.05	....	4.78
De Soto	Mississippi	....	....	....	....	.20	1.35	.03	.02	....	....	....	....	....	....	.14	....	.21	.36	....	.04	.03	.22	....	....	.08	.33	.52	.11	.13	....	....	3.77
Dexter[2]	St. Francis	....	....	....	....	.04	.18	....	....	....	....	....	....	T.	.04	.43	.34	....	1.20	.30	....	....	....	....	.68	....	1.26	.34	.06	.39	.14	....	5.40
Doniphan(1)	Black	....	....	....	....	....	.55	....	....	....	....	....	....	T.	....	.19	....	.98	.95	1.25	....	.10	....	1.30	.37	.43	.05	.99	.69	.59	....	....	8.44
Doniphan(2)[2]	do	....	....	....	....	....	.36	....	....	....	....	....	....	....	....	.16	....	....	2.05	1.45	....	....	....	....	1.12	....	.42	.60	.91	1.10	....	....	8.17
East End[2]	Meramec	....	....	....	....	....	.44	....	....	....	....	....	....	....	.10	.50	....	....	2.15	.25	....	....	....	....	....	....	.42	1.22	.28	.33	T.	....	5.69
Ellington[2]	Black	....	....	....	....	....	.30	....	....	....	....	....	....	.08	....	.51	.35	....	1.90	.15	....	....	....	....	.40	....	.20	2.63	.60	1.90	.03	....	9.05
Ellsinore	do	....	....	....	....	....	.29	....	....	....	....	....	....	T.	....	.30	....	1.10	1.20	T.	....	T.	....	.38	.10	.59	.38	2.38	T.	.89	....	....	7.56
Farmington[2]	St. Francis	....	....	....	....	.02	.74	....	....	....	....	....	....	T.	....	.97	.09	....	.85	.29	....	....	....	....	.14	....	.19	1.48	.06	.36	.15	....	5.34
Fisk[2]	do	....	....	....	....	T.	.30	....	....	....	....	....	....	T.	....	.45	.70	....	1.39	.26	T.	....	....	....	.56	....	.95	.54	T.	.76	T.	....	5.91
Fredericktown[2]	St. Francis	....	....	....	....	T.	.20	....	....	....	....	....	T.	....	....	.83	.07	....	.51	.23	....	....	....	....	.45	....	.05	1.59	.18	.73	.04	....	4.88
Fremont[2]	Black	....	....	....	....	....	.50	....	....	....	....	....	....	....	....	.58	.34	....	1.96	.40	....	....	....	....	.56	....	.05	2.12	....	.52	....	....	7.03
Gerald	Meramec	....	....	....	....	....	.41	....	....	....	....	....	....	.04	....	1.01	....	.27	.67	.17	.19	.55	.91	....	.11	.23	.72	.95	.16	.13	....	....	6.52
Greenville[2] 1 mi. SW	St. Francis	....	....	....	....	....	.37	....	....	....	....	....	....	....	....	.42	.25	....	1.48	.26	....	....	....	....	.62	....	1.17	1.98	.52	1.13	.06	....	8.26
Hermann[2]	Missouri	....	....	....	....	....	.15	....	....	....	....	.02	....	....	....	.35	.22	....	.62	.30	....	3.12	.92	.42	....	.30	.34	.60	.10	.02	.09	....	7.57
High Lookout	Black	....	....	....	....	....	.93	....	....	....	....	....	....	....	....	.16	....	.93	1.98	.08	....	....	....	.35	.22	.14	1.26	1.40	.19	.50	....	....	8.14
Jackson	Mississippi	....	....	....	....	T.	1.00	....	....	....	....	....	....	.06	....	.55	.16	....	.58	T.	T.	....	....	.10	.09	.69	T.	1.83	T.	.70	....	....	5.76
Jerome[2]	Gasconade	....	....	....	....	....	T.	.06	....	....	....	....	....	.07	....	.44	.35	....	2 27	....	....	2.06	1.56	T.	....	....	.40	.70	.60	....	....	....	8.51
Koshkonong[2]	Black	....	....	....	....	....	.35	....	....	....	....	....	....	....	....	.05	....	.16	1.85	3.64	.05	....	....	....	.40	.01	.16	2.00	.02	.71	.33	....	9.73
Leeper[2]	do	....	....	....	....	T.	.26	....	....	....	....	....	....	T.	.06	.33	.38	....	1.01	.20	....	....	....	.54	.11	....	.54	2.60	.14	.93	.05	....	7.15
Licking[2]	Gasconade	....	....	....	....	....	....	....	....	....	....	....	....	....	.22	1.50	.57	....	2.92	.62	....	.94	....	....	....	....	.53	.30	1.83	.24	*	....	9.67
Macedonia Lookout[2]	Black	....	....	....	....	....	.50	....	....	....	....	....	....	....	....	.35	.08	....	1.40	1.35	.98	.03	....	....	1.47	....	.33	1.35	.30	1.15	.03	....	9.32
Marble Hill	Mississippi	....	....	....	....	....	2.30	....	....	....	....	....	....	....	....	.57	....	....	.81	....	....	....	....	.37	....	.85	T.	1.55	.17	.70	....	....	7.32
Morehouse	do	....	....	....	....	T.	T.	....	....	....	....	....	....	T.	.33	1.00	.03	....	.94	.03	....	....	....	....	.17	.82	.40	.38	T.	.36	.02	....	4.48
Moselle[2]	Meramec	....	....	....	....	....	.13	....	....	....	....	....	....	....	....	1.05	.17	....	.37	.18	....	.97	.33	.48	....	....	.06	1.29	.23	.03	.07	....	5.36
New Madrid[2]	Mississippi	....	....	....	....	T.	.16	....	....	....	....	....	....	T.	....	.32	.03	....	1.04	.18	.11	....	....	....	.43	T.	1.36	.26	.16	.37	.23	....	4.65
Oates Tower[2]	Black	....	....	....	....	....	.85	....	....	....	....	....	....	.07	....	.34	.05	....	1.74	.22	....	....	....	T.	.28	....	.28	1.02	.99	.60	.04	....	6.48
Owensville[2]	Gasconade	....	....	....	....	....	.84	....	.12	....	....	....	....	....	....	1.43	.17	....	1.71	....	.02	.80	.87	....	....	.05	.49	2.83	.43	....	.35	....	10.11
Pacific[2]	Meramec	....	....	....	....	T.	.16	....	....	....	....	....	....	....	....	1.00	.05	....	.26	T.	....	.77	.20	T.	....	.25	.66	.84	.25	.07	.15	....	4.66
Parma[2]	St. Francis	....	....	....	....	.19	....	....	....	....	....	....	....	T.	.08	.38	.09	....	1.60	.19	.05	....	....	....	.61	.08	.55	T.	.20	.22	.30	....	4.54
Perryville	Mississippi	....	....	....	....	....	.56	....	T.	....	....	....	....	T.	....	.14	....	.16	.36	....	....	....	....	.16	....	.15	.23	.77	.25	1.06	....	....	3.84
Poplar Bluff[2]	Black	....	....	....	....	....	.36	....	....	....	....	....	....	....	....	.34	.26	....	2.05	.27	....	....	....	....	.48	....	.84	.88	.02	1.82	.08	....	7.40
Puxico[2]	St. Francis	....	....	....	....	....	.25	....	....	....	....	....	....	....	.12	.35	.51	....	1.71	.25	....	....	....	....	.94	....	.71	.86	T.	.85	.32	....	6.87
Qulin[2]	do	....	....	....	....	.11	.27	....	....	....	....	....	....	....	....	.35	.14	....	1.53	.39	T.	....	....	T.	.47	T.	.39	.27	.19	.50	.15	....	4.76
Reynolds[2]	Black	....	....	....	....	....	.32	....	....	....	....	....	....	....	....	.76	.25	....	2.04	.17	....	....	....	....	.44	....	.65	1.42	.57	.40	.03	....	7.05
Richwoods[2]	Meramec	....	....	....	....	....	1.35	....	....	....	....	....	....	....	....	.86	.03	....	.75	T.	....	.83	.69	T.	....	.08	T.	.60	.25	.36	T.	....	5.80
Roby	Gasconade	....	....	....	....	....	.66	....	T.	....	....	....	.02	....	.18	1.52	....	1.15	3.07	....	.84	.11	.30	T.	T.	.82	.02	1.42	1.93	.05	....	....	12.09
Rolla[2]	Meramec	....	....	....	....	....	.10	....	....	....	....	....	....	....	....	1.11	.15	....	2.05	....	*	1.18	1.00	....	....	....	.30	.60	.70	.09	.05	....	7.33
Round Spring[2]	Black	....	....	....	....	....	.19	....	....	....	....	....	....	....	....	.79	.53	....	2.13	.32	....	....	....	....	.48	....	.19	1.40	.79	.37	....	....	7.19
St. Louis:																																	
City Office[1,5]	Mississippi	....	....	....	.03	.53	.01	.05	....	....	....	....	T.	....	T.	.12	....	.14	.06	....	.48	.19	.54	T.	.01	.10	.25	.56	.74	.17	T.	....	3.98
Airport[3,5]	Missouri	....	....	....	T.	1.08	T.	T.	.01	....	....	....	T.	....	T.	.15	....	.11	.09	....	.50	.07	.48	T.	T.	.15	.29	1.37	.55	.27	T.	....	5.12
St. Louis Univ[1,5]	Mississippi	....	....	....	T.	.65	....	.02	....	....	....	....	T.	....	T.	.15	....	.16	.12	T.	.38	.30	.54	T.	.01	.33	.51	.47	.37	.21	....	....	4.22
Washington Univ.[2]	do	....	....	....	....	....	.84	....	.02	....	....	....	....	....	....	....	.19	....	.26	.09	....	.60	.38	....	....	.08	.29	.90	.17	.13	.12	....	4.07
Salem[2]	Meramec	....	....	....	....	T.	.72	T.	....	....	....	....	....	.05	.51	.75	.30	....	1.43	.17	.16	.33	.22	.04	T.	....	.26	.76	2.64	.27	.08	....	8.69

Continued on next page

Daily Precipitation for June 1948—Continued from preceding page

Stations	Drainage-basins	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	..	Total
Southeastern Division —	*Concluded*																																
Sikeston[2]	Mississippi	....	....	....	....	T.	.03	....	....	....	....	....	....	T.	....	.97	.08	....	.68	.25	.03	....	....	....	.31	....	.68	.74	.04	.20	.24	....	4.25
Siloam Sprgs Lookout[2]	White	....	....	....	....	....	.43	....	....	....	....	....	....	....	....	....	....	.63	1.37	1.21	.35	....	....	....	.75	....	....	.80	....	*	.49	....	6.03
Steelville[2] ...2½ mi. NE	Meramec	....	....	....	....	....	.61	....	....	....	....	....	....	T.	....	1.19	.20	....	2.46	.30	....	.38	.73	.07	....	T.	.14	.84	.45	T.	.14	....	7.51
Sullivan[2]	....do	....	....	....	....	....	.16	....	.04	....	....	....	....	.02	....	1.85	.18	....	.59	.16	.02	1.21	1.24	.14	T.	.02	.35	1.33	.24	.05	.09	...	7.69
Summersville[2]	Black	....	....	....	....	....	1.00	....	....	....	....	....	....	....	....	T.	.08	....	2.00	1.15	T.	....	....	....	.56	....	1.06	.65	1.35	.32	....	....	8.17
Union[2] ....1½ mi. SE	Meramec	....	....	....	....	....	.12	....	....	....	....	....	T.	T.	....	.73	.12	....	.37	.16	....	.89	.43	.13	....	.12	.09	1.96	.46	.03	.17	....	5.78
Valley Park[2]	....do	....	....	....	....	T.	.83	....	.03	....	....	....	....	T.	....	.06	T.	....	.33	.09	....	.65	.64	.04	T.	.15	.30	1.39	.23	.18	.11	....	5.03
Van Buren[2]	Black	....	....	....	....	....	.44	....	....	....	....	....	....	....	....	.30	.21	....	1.90	.17	....	....	....	....	.90	.14	....	2.73	....	1.30	.08	....	8.17
Vichy[3] .....2 miles NW	Meramec	....	....	....	....	.15	....	....	T.	....	....	....	.25	.04	.71	.30	....	3.13	.44	....	1.66	1.31	.43	T.	....	.22	1.56	.23	.26	.09	....	....	10.78
Wappapello Dam[2]	St. Francis	....	....	....	....	T.	.35	....	....	....	....	....	....	.11	.05	.62	.34	....	1.39	.24	....	....	....	....	.83	....	.22	1.00	.01	1.54	T.	....	6.70
Webster Groves	Mississippi	....	....	....	....	T.	.98	T.	....	....	....	....	T.	.01	....	.08	....	.17	.24	....	.05	.60	.45	T.	....	.05	.40	.62	.28	.15	....	....	4.08
Weingarten	....do	....	....	....	....	....	1.02	....	....	....	....	....	....	....	....	.18	....	.26	.41	....	....	....	....	....	....	.36	.14	1.20	....	.60	....	....	4.17
West Plains[3]	Black	....	....	....	....	.85	....	....	....	....	....	....	T.	....	T.	.13	.88	.68	4.09	.15	....	....	....	.32	T.	.22	.14	.30	.19	.33	....	....	8.28
Williamsville[2]	....do	....	....	....	....	....	.37	....	....	....	....	....	....	....	....	.63	.51	....	2.41	.24	....	....	....	....	.77	....	.82	1.25	.55	.82	T.	....	8.37
Willow Springs[2] 500 ft E	White	....	....	....	....	....	.53	....	....	....	....	....	....	....	....	....	.20	.08	2.02	2.73	....	....	....	....	.65	....	.78	.80	....	.30	.22	....	8.31
Zalma[2]	Mississippi	....	....	....	....	.07	.75	....	....	....	....	....	....	.12	....	.93	....	....	1.10	.31	....	....	....	....	.85	....	.56	1.20	.11	.30	.60	....	6.90
Cairo, Ill.[1], [5]	....do	....	....	....	....	.42	.01	....	T.	....	....	....	....	.08	.04	.98	....	.07	.45	....	T.	....	....	.31	.57	.56	.38	.47	.42	.40	....	....	5.16
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....

Except as otherwise indicated, amounts are for 24 hours ending late in afternoon. [1] Midnight to midnight. [2] Measured in the morning; for the preceding 24 hours. [3] Data for 24 hours ending 12:30 A. M. (C. S. T.) of following day. [5] Recording gage. T. Trace or 0.005 inch or less. * Included in next measurement. // Wind-shield on gage. Italics data interpolated. § Partly interpolated. (A) Record from cooperative station gage. (B) Record from river station gage. (C) Airport. ‡ Received too late to be included in means and extremes.

Daily Evaporation (inches), Mean Temperature (F°), and Wind Movement (miles) for June 1948

(See precipitation data in daily precipitation table)

Station	Data	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	..	Monthly
		Day of month																															
Columbia (Univ. of Mo. Hort. Exp. Sta. 9 mi. WNW.)	Evaporation	.201	.229	.277	.307	.241	.214	.204	.356	.174	.244	.300	.215	.224	.236	.118	.141	.110	.137	.210	.131	.119	....	.104	.189	.162	.128	.223	.230	.135	.273	....	6.033
	Mean temperature	66	70	71	72	80	72	74	76	67	72	80	81	72	76	74	66	68	74	70	66	70	72	76	74	72	75	76	74	74	72	..	72.8
	Wind movement	1	1	12	36	13	37	44	34	5	3	7	21	8	17	7	4	14	51	48	18	41	47	69	44	9	16	39	82	12	27	..	767
Lakeside (Osage Dam)	Evaporation	.233	.238	.251	.270	.262	.337	.149	.305	.377	.260	.251	.258	.237	.212	.394	.152	.101	....	.168	.219	.190	.138	.079	.060	.176	.053	.104	.172	.162	.163	....	6.177
	Mean temperature	66	70	69	70	76	71	74	72	66	70	78	77	74	78	74	70	70	74	70	72	68	74	72	76	73	74	77	72	75	74	..	72.4
	Wind movement	38	29	18	23	37	46	25	36	48	28	18	25	43	27	69	55	18	81	57	52	77	39	71	42	31	33	27	47	48	31	..	1,219
St. Louis (Washington University)	Evaporation	.240	.260	.222	.272	.302	.294	.114	.192	.319	.213	.244	.288	.271	.255	.230	.047	.166	.118	.205	.203	.159	.146	.201	.181	.207	.165	.096	.201	.133	.101	....	6.045
	Mean temperature	70	74	75	77	81	66	73	72	69	72	79	82	74	76	68	68	70	76	72	70	75	78	82	78	76	78	78	77	74	74	..	74.4
	Wind movement	14	17	6	8	21	25	23	15	33	13	9	18	42	16	19	25	19	11	24	38	17	15	49	35	22	10	15	31	22	7	..	619

Observations taken at 8:00 a. m. except at 5:00 p. m. at Columbia. For Lakeside and St. Louis (Washington University) descriptions see April 1932 and August 1938 reports, respectively. * Included in next measurement.

(Continued from page 43)

and St. Louis City; 14th at Chillicothe Airport, Marshall Airport, Sweet Springs; 17th at Sedaila; 20th at Carl Junction and vicinity. Heavy, 14th at Elsberry, Hannibal, Stover, and in Cooper, Carroll, and Saline counties; 21st at Pierce City. (See special storm table).

Tornadoes.—20th, 27th. (See special storm table).

Windstorms.—5th, 14th, 15th, 17th, 18th, 19th, 20th, 21st, 22d, 26th, 27th. (See special storm table).

ERRATA

April 1948, page 26: Mean temperature and departure at Lexington and Sedalia should be 59.8, +5.2 and 61.5, +6.2, respectively. Maximum temperature and date at Shelbina should be 86 on 18th. Page 27: Maximum temperature and date at St. Louis University should be 89 on 7th. Page 31: Mean minimum temperature at Sedalia should be 49.3.

May 1948, page 35: Under heading Miscellaneous Phenomena, line 7 should follow line 3.

Daily Temperatures for June 1948

Stations		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	..	Mean
Northern Division																																	
Brunswick /	Maximum	86	89	89	90	88	81	91	81	82	93	94	80	85	91	75	78	75	86	73	70	79	80	78	84	78	85	86	75	85	80	..	82.9
	Minimum	49	50	54	58	59	63	63	63	53	53	57	66	59	60	63	59	59	60	58	58	58	65	65	67	68	68	69	67	66	62	..	60.6
Chillicothe 2 mi ESE(C)	Maximum	86	88	89	92	85	82	92	83	86	92	95	78	84	91	78	79	78	84	74	68	78	80	78	82	79	84	84	77	85	81	..	83.1
	Minimum	48	50	52	64	63	60	61	58	50	57	65	62	57	58	62	57	59	61	56	57	64	64	64	65	65	67	67	66	63	58	..	60.0
Columbia	Maximum	85	89	89	90	95	76	92	84	84	92	96	90	84	93	77	79	78	85	75	78	78	83	79	87	78	84	86	80	86	80	..	84.4
	Minimum	51	54	58	63	64	63	60	63	54	60	67	68	62	66	63	59	63	66	61	59	66	65	68	68	66	68	70	67	66	62	..	63.0
Fayette	Maximum	85	88	87	90	94	78	91	83	83	92	97	92	86	92	80	79	78	86	80	76	77	81	80	84	83	85	86	79	85	80	..	84.6
	Minimum	51	53	54	55	60	62	59	62	53	53	65	61	59	61	65	57	59	62	58	58	65	59	70	62	66	67	69	66	64	61	..	60.5
Grant City	Maximum	84	86	87	92	86	84	90	87	90	91	85	87	81	86	87	81	80	86	74	67	81	74	80	83	84	85	83	80	85	81	..	83.6
	Minimum	52	54	54	60	64	57	62	59	61	63	60	51	58	60	60	63	57	56	55	55	55	68	62	62	63	65	68	61	60	51	..	59.2
Hannibal	Maximum	83	88	90	90	93	66	88	80	81	88	91	87	83	86	69	77	73	88	73	73	81	79	82	84	78	86	87	83	82	76	..	82.2
	Minimum	55	60	62	62	61	57	56	60	55	59	66	64	57	59	60	53	56	61	60	56	65	65	68	68	66	65	68	67	64	61	..	61.2
Kansas City Airport	Maximum	86	87	89	93	90	86	94	85	90	98	96	85	82	97	82	77	73	84	72	69	75	82	76	86	84	89	86	78	88	85	..	84.8
	Minimum	55	55	57	69	65	59	72	66	57	68	69	67	63	70	66	65	63	63	58	60	64	65	68	68	70	71	70	68	66	63	..	64.7
Kirksville	Maximum	85	88	87	89	84	78	82	83	83	89	92	78	83	88	78	82	78	85	78	65	78	79	79	82	79	83	83	80	85	88	..	82.4
	Minimum	52	57	56	60	64	56	58	55	52	56	66	63	56	59	61	53	56	59	56	56	63	65	63	65	65	64	65	66	63	56	..	59.5
Lathrop	Maximum	83	85	86	91	86	82	92	83	87	96	94	85	85	94	82	79	76	82	74	68	74	79	79	79	80	85	83	77	85	82	..	83.1
	Minimum	52	53	57	63	65	57	64	61	53	62	64	68	57	60	62	59	60	63	55	57	65	62	64	64	65	68	66	65	60	57	..	60.9
Louisiana	Maximum	86	90	95	91	96	88	89	82	82	90	97	91	87	86	75	80	77	88	80	76	84	83	86	86	83	89	88	85	85	81	..	85.9
	Minimum	44	50	51	52	69	58	53	52	48	49	63	70	58	54	62	51	53	60	61	54	65	67	75	69	63	64	68	70	66	58	..	59.3
Macon /	Maximum	85	89	89	91	89	75	91	82	83	93	95	85	85	90	73	79	75	87	75	70	79	80	80	84	81	85	85	77	85	80	..	83.2
	Minimum	53	57	54	62	66	59	59	57	52	57	65	68	55	58	62	54	56	60	54	57	57	64	64	64	65	65	66	66	64	58	..	59.9
Maryville	Maximum	82	85	87	90	82	81	90	83	85	87	88	82	80	88	83	78	77	78	74	68	78	75	79	82	81	84	82	75	84	79	..	81.6
	Minimum	53	55	55	60	63	55	61	57	53	59	63	56	53	60	59	56	58	60	53	56	61	62	61	57	61	64	63	60	58	53	..	58.2
Mexico /	Maximum	85	90	90	91	95	74	92	83	83	93	97	90	86	91	72	79	79	87	75	77	81	82	80	85	80	85	87	80	84	79	..	84.4
	Minimum	48	54	56	60	68	59	57	59	51	57	67	70	57	62	64	54	58	62	58	55	61	65	66	66	64	65	67	65	64	60	..	60.6
Moberly / .... 3½ mi. NE	Maximum	87	89	90	92	94	88	91	86	85	92	96	86	84	81	77	83	76	76	71	76	73	78	73	84	86	..	88	81	86	81	..	[a]83.8
	Minimum	53	57	65	67	66	64	67	67	56	57	66	70	56	59	64	56	58	62	57	54	59	64	66	67	66	67	..	66	64	69	..	[a]62.4
Oregon	Maximum	84	85	86	92	85	85	92	83	87	91	92	82	83	93	81	79	71	78	75	68	72	77	82	84	84	82	85	72	87	83	..	82.8
	Minimum	58	58	60	63	59	55	67	63	56	63	66	66	66	63	63	59	61	57	54	57	64	65	63	61	70	71	67	63	62	58	..	61.9
St. Charles	Maximum	89	91	93	92	98	91	91	83	82	89	96	93	86	90	82	82	82	90	88	80	91	90	91	86	85	92	90	87	84	83	..	88.2
	Minimum	50	55	57	58	67	63	57	64	55	58	66	72	62	63	64	54	58	63	66	53	66	68	76	70	68	68	68	68	66	66	..	63.1
St. Joseph Airport	Maximum	86	86	88	92	88	85	94	85	88	95	93	84	85	94	83	80	77	80	75	68	77	80	82	84	84	87	84	76	87	84	..	84.4
	Minimum	52	52	55	65	62	58	68	60	54	66	69	67	60	64	64	62	62	60	57	58	67	64	64	64	67	68	69	66	63	59	..	62.2
Trenton	Maximum	85	88	89	92	86	84	92	85	87	93	94	86	85	89	80	80	76	86	79	70	79	78	81	84	80	85	84	82	87	82	..	84.3
	Minimum	52	54	56	61	64	62	64	59	53	59	66	68	57	60	63	57	60	63	58	59	64	65	64	63	66	67	66	68	65	58	..	61.4
Unionville /	Maximum	84	82	88	92	76	81	88	81	84	88	90	75	83	86	74	79	72	85	74	68	81	79	80	83	80	82	83	77	85	79	..	81.3
	Minimum	49	52	52	55	63	55	55	55	49	54	62	64	53	58	58	52	55	58	55	55	55	63	61	61	60	63	64	63	61	55	..	57.2
Warrenton	Maximum	84	89	89	89	96	94	90	82	80	87	94	90	83	89	78	77	81	86	84	84	85	84	84	84	82	87	86	82	82	80	..	85.4
	Minimum	43	51	53	55	66	59	54	56	49	53	66	68	64	59	61	55	55	60	63	55	64	66	76	68	65	65	67	66	63	61	..	60.2
Keokuk, Iowa	Maximum	85	90	89	89	86	66	84	86	81	91	92	75	82	76	69	75	73	88	69	70	76	80	81	83	78	79	86	80	83	77	..	80.6
	Minimum	58	63	64	66	64	54	57	57	56	64	71	63	59	62	62	54	56	62	59	57	64	66	67	68	69	68	68	67	64	60	..	62.3
Southwestern Division																																	
Clinton	Maximum	85	88	90	93	94	85	93	87	87	94	99	88	83	97	85	76	72	87	73	83	75	84	73	86	80	83	85	80	86	83	..	85.1
	Minimum	52	52	55	57	64	57	67	60	54	56	63	67	64	65	64	61	60	67	60	60	64	64	69	67	67	68	69	66	67	63	..	62.3
Eldon	Maximum	82	87	86	88	91	78	88	86	81	88	92	90	82	90	87	75	75	83	82	79	80	84	84	83	79	82	85	83	83	82	..	83.8
	Minimum	52	55	58	58	67	58	67	64	55	58	66	71	62	64	60	63	59	64	61	59	58	65	69	66	66	66	68	65	64	64	..	62.4
Harrisonville /	Maximum	83	85	87	91	95	87	94	88	88	93	97	90	81	94	84	76	75	86	73	75	74	81	74	84	77	81	83	79	88	83	..	84.2
	Minimum	56	56	57	61	65	56	62	64	58	61	68	61	61	65	66	61	61	62	58	59	58	64	64	66	65	66	68	66	64	59	..	61.9
Jefferson City	Maximum	84	88	89	90	93	76	90	84	82	91	96	91	82	92	78	76	79	85	80	79	79	84	82	83	80	84	86	82	82	81	..	84.3
	Minimum	44	49	50	54	61	58	56	59	50	51	66	66	61	59	63	60	57	63	61	57	62	63	71	66	64	65	66	63	63	61	..	59.7
Joplin Airport	Maximum	85	90	89	92	94	90	93	91	88	92	96	94	89	92	85	74	93	90	75	93	77	88	81	85	83	82	86	79	87	88	..	87.4
	Minimum	54	56	57	62	69	64	70	62	52	59	62	68	68	65	64	64	65	65	63	67	63	62	65	66	66	65	68	65	65	65	..	63.5
Lamar /	Maximum	82	85	86	89	93	86	91	89	86	91	95	90	85	91	84	73	86	84	75	90	70	84	68	83	80	79	83	78	85	86	..	84.2
	Minimum	56	50	50	54	62	59	65	64	49	49	56	60	64	64	64	63	62	63	63	61	63	62	62	64	66	64	64	64	64	63	..	60.5
Lebanon /	Maximum	82	85	86	87	93	78	82	83	80	87	93	91	81	90	83	73	78	81	74	84	84	84	79	80	77	82	85	78	84	81	..	82.8
	Minimum	48	50	53	59	65	59	61	62	50	53	62	68	63	65	65	63	59	64	63	60	60	63	64	65	68	65	67	64	64	64	..	61.2
Lexington /	Maximum	87	88	90	94	91	84	92	84	89	97	97	85	85	95	80	79	75	87	75	71	76	82	76	85	84	85	84	77	87	83	..	84.8
	Minimum	53	56	58	66	69	60	65	67	56	64	69	71	60	65	65	62	62	64	57	58	58	63	64	67	68	69	68	66	66	62	..	63.3
Marshall Airport	Maximum	86	87	86	89	91	80	91	83	84	95	95	85	86	92	76	78	73	85	74	75	76	82	77	84	78	86	85	78	85	82	..	83.5
	Minimum	46	51	55	57	60	60	61	57	50	53	63	65	59	59	61	58	57	60	56	57	64	64	67	67	66	68	67	64	63	59	..	59.8
Mountain Grove	Maximum	82	83	86	88	93	81	89	87	81	85	90	89	82	88	87	79	79	78	77	82	86	84	82	80	82	83	86	86	82	83	..	84.0
	Minimum	49	51	51	62	64	59	61	66	50	56	63	67	64	66	65	64	60	61	64	61	72	70	71	63	64	66	65	67	65	64	..	62.5
Neosho	Maximum	83	85	86	89	92	90	91	90	87	91	93	92	90	91	90	86	89	90	83	90	84	87	87	84	88	87	88	86	85	87	..	88.2
	Minimum	50	47	50	55	56	63	63	60	48	51	57	62	66	62	65	64	65	67	64	67	66	64	66	65	68	66	66	65	64	62	..	61.1
Nevada	Maximum	88	89	88	92	97	89	95	91	91	96	98	93	88	95	88	84	82	89	89	91	72	85	83	86	83	83	84	80	88	87	..	88.1
	Minimum	53	50	54	59	65	59	64	65	48	56	62	65	66	67	64	62	62	67	61	62	65	63	67	66	66	65	68	66	77	63	..	62.6
Sedalia	Maximum	83	86	87	90	91	87	91	89	82	91	95	93	81	93	93	75	74	83	82	77	75	83	83	84	82	82	84	81	84	81	..	84.7
	Minimum	50	53	62	61	68	58	65	64	53	60	67	68	62	65	66	61	61	64	59	59	65	63	69	68	68	67	69	65	65	65	..	63.0
Springfield....4 mi. NW	Maximum	80	84	87	88	94	81	89	85	81	88	94	90	81	90	83	70	78	77	73	84	83	84	76	81	80	81	86	77	82	82	..	83.0
	Minimum	55	54	57	58	65	60	65	62	54	58	61	65	66	63	65	63	62	65	62	64	65	64	65	64	66	68	66	65	65	65	..	62.6
Warrensburg	Maximum	85	83	90	92	93	85	94	89	..	95	93	93	83	95	91	76	75	86	82	76	75	82	82	85	77	82	84	80	87	83	..	[a]85.3
	Minimum	55	59	61	64	69	60	68	68	58	62	69	69	62	66	65	61	60	65	59	59	65	64	69	68	66	70	69	66	66	63	..	64.2
Southeastern Division																																	
Arcadia /	Maximum	85	88	90	89	94	80	90	88	88	80	85	88	80	88	75	*75*	*80*	*82*	75	*80*	*87*	*85*	*82*	*82*	*80*	82	82	79	*80*	80	..	§83.3
	Minimum	43	*42*	48	*50*	53	62	58	63	48	51	50	56	63	58	60	64	55	57	64	62	64	*65*	74	67	67	65	67	65	66	62	..	§59.0
Birch Tree.... ½ mile E	Maximum	81	..	..	..	..	..	89	86	82	86	90	90	85	87	85	80	84	80	78	83	89	87	84	81	81	87	86	85	82	84	..	[c]84.5
	Minimum	46	..	..	..	..	..	57	61	49	50	54	59	65	64	60	66	55	64	66	64	71	72	70	64	66	65	66	66	67	58	..	[c]61.8
Caruthersville	Maximum	83	88	92	91	94	91	91	90	88	86	92	91	92	91	90	81	86	83	79	86	90	90	90	88	99	91	90	90	89	89	..	88.8
	Minimum	57	58	59	59	67	66	64	67	59	64	66	67	73	71	66	70	67	65	68	67	74	75	75	70	71	70	72	73	70	67	..	67.3
Crystal City	Maximum	87	90	91	92	96	90	90	89	83	87	93	98	97	90	87	82	83	87	85	81	91	90	90	87	85	93	90	88	82	82	..	88.5
	Minimum	45	50	52	54	63	64	58	63	52	54	61	68	65	58	65	59	58	65	69	59	66	68	76	70	68	65	67	68	66	64	..	62.0
Doniphan	Maximum	84	89	91	92	97	88	94	90	81	88	93	95	88	92	86	89	92	85	82	88	91	91	91	82	90	91	87	91	85	87	..	89.1
	Minimum	46	48	50	51	61	61	57	59	49	51	55	60	61	66	62	62	58	65	65	63	73	73	72	68	67	66	68	66	66	61	..	61.0
Farmington	Maximum	82	85	88	88	93	82	88	83	80	85	91	91	82	91	82	78	81	85	78	81	89	87	88	85	85	91	87	87	81	82	..	85.2
	Minimum	45	47	49	52	63	60	57	58	50	50	55	63	60	57	58	59	54	61	65	57	65	65	68	65	64	62	63	63	63	58	..	58.5
Jackson	Maximum	87	93	93	91	96	93	92	88	84	89	93	93	91	90	87	83	87	82	85	84	91	91	91	88	90	92	84	90	88	89	..	89.2
	Minimum	47	49	50	53	66	65	60	66	54	53	58	62	65	60	63	64	58	66	72	62	70	74	74	70	67	68	68	69	67	62	..	62.7
Poplar Bluff	Maximum	86	91	93	92	96	87	94	90	85	91	92	94	88	91	85	83	86	81	80	85	90	90	89	85	89	90	84	90	85	87	..	88.3
	Minimum	54	51	56	54	62	63	57	62	56	54	58	61	69	66	64	67	62	64	69	63	75	74	72	69	68	66	68	70	68	63	..	63.6
Rolla /	Maximum	79	88	79	82	86	84	84	81	80	85	92	85	77	77	66	75	75	83	67	80	77	81	80	78	83	85	85	76	78	77	..	80.2
	Minimum	54	55	57	60	67	58	58	63	52	57	64	67	62	62	62	62	57	62	62	55	60	62	67	64	66	64	65	63	64	63	..	61.1
St. Louis	Maximum	84	90	90	90	93	69	87	79	79	88	93	90	85	90	75	81	80	88	78	80	90	89	88	85	84	90	89	85	80	80	..	85.0
	Minimum	63	65	69	69	63	63	60	67	62	66	70	71	65	68	66	57	61	67	65	59	66	68	74	71	70	69	68	71	68	68	..	66.3
Salem /	Maximum	81	87	87	87	92	75	87	83	81	86	92	90	81	86	83	75	81	82	77	82	89	86	83	83	83	87	88	82	80	81	..	83.9
	Minimum	45	49	49	55	59	61	59	61	49	52	59	65	63	61	61	63	56	61	64	60	59	65	71	65	67	65	66	64	65	62	..	60.0
Sikeston /	Maximum	85	91	92	93	97	89	96	90	85	91	95	98	88	91	84	82	88	83	79	84	91	91	90	86	90	90	84	89	92	88	..	89.1
	Minimum	50	53	56	58	67	66	61	65	56	56	62	65	69	65	64	66	61	65	66	64	67	75	75	70	70	69	69	70	69	67	..	64.5
Union ....1½ mi. SE	Maximum	84	89	89	90	95	77	91	85	82	89	94	94	85	89	73	77	79	85	84	80	88	86	88	84	82	90	88	84	82	80	..	85.4
	Minimum	43	49	50	51	61	61	54	60	49	51	59	71	61	57	63	59	55	63	65	55	65	66	76	67	66	65	67	61	64	63	..	59.9
West Plains	Maximum	82	86	89	89	94	84	90	87	82	87	91	93	85	90	84	73	80	78	74	83	88	86	84	80	80	85	85	85	81	84	..	84.6
	Minimum	48	47	50	51	60	59	61	57	52	53	56	61	67	67	64	63	61	64	66	64	74	73	67	65	69	67	68	69	65	58	..	61.5
Cairo, Ill.	Maximum	84	89	91	94	97	87	93	88	83	86	92	96	84	90	82	80	86	85	80	83	93	93	92	87	88	92	87	92	81	89	..	88.1
	Minimum	56	59	63	63	69	67	67	68	62	63	65	70	67	67	66	68	64	68	70	64	74	76	73	71	71	71	70	73	71	69	..	67.5

/ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs. [a], [b], [c], etc., number of days missing, for example, [b] indicates two days missing. Italics data interpolated. § Partly interpolated. (C) Airport.

Missouri Storms, June 1948

Place	Date	Time	Width of path	Loss of life	Value of property destroyed	Character of storm	Remarks
St. Louis City and St. Louis County	5	6:40 p.m.	....	0	....	Wind and electrical	A few plate glass windows shattered, a few buildings and roofs damaged, some trees blown down and some utility wires down. Three persons slightly injured, two by falling carnival tent poles and one by lightning. Some hail in a few places, but no material damage. Aggregate damage rather small.
Dent County	14	4:00 a.m.	....	0	....	Wind	Storm in Salem and aggregate damage slight. Some tree limbs broken off, electric and telephone wires taken down. No crop loss to speak of.
Marion County	14	1:00 p.m.	2 miles	0	....	Wind and heavy hail	Hannibal and vicinity was site of this storm. Many trees blown over, fabric automobile tops damaged and some roofs also damaged. Gardens beaten down by hail. Largest hailstones over an inch in diameter.
Lincoln County	14	3:30 p.m.	1 mile	0	....	Heavy hail	Storm in vicinity of Elsberry. Roofs damaged, many windows broken, some greenhouse sashes destroyed. Gardens and crops also injured. Stones up to one inch in diameter.
Carroll County	14	Between 3:00 p.m. and 5:00 p.m.	1 mile	0	$30,000	Hail, high wind and electrical	Storm area from Bogard through Standish to east of Wakenda. Hay barn and contents destroyed when struck by lightning. Some poultry killed by hail. Many windows panes broken and some roofs and automobiles damaged by hail. One person injured when struck by large hail, some of which were reported to be the size of hen eggs. Much damage to standing crops. Crop damage estimated at $30,000. No estimate of property damage.
Saline County	14	4:45 p.m.	½ to 2 miles	0	$321,000	Wind and heavy hail	Storm damage in scattered parts of the county extending from northwest to southeast. Roofs damaged, many window panes destroyed, standing crops, including gardens damaged. Damage to crops estimated at about $300,000, to livestock and poultry $1,000 and to buildings, automobiles and other property about $20,000. Most of damage was in rural areas. Hailstones ranged up to 1½ to 2 inches in diameter. Bulk of damage from hail.
Cooper County	14	5:20 p.m.	10 miles	0	$11,000	Heavy hail	Storm at Blackwater and vicinity, where gardens, wheat and oats were damaged and corn stripped. Some roofs badly damaged, many windows broken. Hailstones up to 1¼ inches in diameter. Crop damage $9,000; property damage $2,000.
Cooper County	14	5:45 p.m.	8 miles	0	$100,100	Wind and heavy hail	Storm at Pilot Grove and vicinity. Hardly a home escaped without at least one window pane broken. Many roofs damaged. One person slightly injured by hail, striking his head. Some poultry killed and some crop damage. Damage mostly from hail. Largest stones size of hen eggs.
Cooper County	14	5:50 p.m.	8 miles	0	....	Wind and heavy hail	Storm at Bunceton and vicinity. Wheat and oats flattened and some corn damaged. Many roofs damaged by hail, many birds and some chickens killed. One barn blown down. Largest hailstones 1¼ inches in diameter. Estimate of damage not reported.
Morgan County	14	7:00 p.m.	1 mile	0	....	Heavy hail	Storm occurred at Stover and vicinity. Damage confined mostly to roofs. No crop damage. Stones ranged from small to size of hen eggs.
Pettis County	17	6:00 p.m.	....	0	$4,000	Moderate hail and high wind	Damage at Sedalia and in scattered areas of county. Some glass in greenhouses broken. Crop domage $3,000; property damage $1,000.
Pemiscot County	17-18	5 to 7 p.m. and 2 to 5 a.m.	¼ to 2 miles	0	....	Wind	Many poles and utility wires down. Damage, on the whole, slight. Occurred at Caruthersville and vicinity.
Webster County	19	9:00 p.m.	....	0	....	High wind	Trees blown down and broken and 3 power line poles broken off. Numerous power and telephone lines down. Storm occurred at Marshfield and vicinity. Some corn and small grain was blown down but no loss occurred.
Jasper County	20	6:25 p.m.	1 mile	0	$75,000	Wind and hail	Several roofs blown off and trees and wires broken in Carl Junction and vicinity where this storm occurred. Crop damage estimated at about $5,000 of the total shown. Storm was accompanied by some hail. Most of damage was from wind. Storm originated in Kansas.
Boone County	20	8:00 p.m.	130 yards	0	$5,000	Small tornado	Three homes and outbuildings damaged near Ashland; one man slightly injured. Crop damage slight. Some damage to trees and and wires.
Lawrence County	21	7:30 p.m.	1½ miles	0	$10,000	Wind and heavy hail	Many large shade trees destroyed, some homes damaged; several by falling trees. Some utility wires down. Storm struck Pierce City and vicinity. Slight crop damage. Hail was small.
Lawrence County	21	8:23 p.m.	300 yards	0	$3,000	High wind	Storm occurred at Verona and vicinity. Many trees uprooted or broken off, some falling on houses, barns and an automobile. Several outbuildings were demolished and some barns unroofed. Reported as a tornado but evidence does not bear this out. Some wheat and oat fields were flattened but no crop loss. Telephone service was disrupted.
Clinton County	22	7:30 p.m.	....	0	....	Wind	Several trees uprooted and wires blown down and a number of buildings damaged. Aggregate damage small. Storm occurred at Cameron.
Linn County	22	8:00 p.m.	½ mile	0	$6,950	Wind	Storm in and near Purdin. 40 or 50 trees uprooted, several porches torn off. A few buildings moved on foundations. Crop damage estimated at $1,950 of amount shown.
Livingston County	22	9:30 p.m.	70 yards	0	$14,000	Wind	Storm at Chillicothe Municipal Airport, 3 miles east of Chillicothe. Hangar damaged. Several planes also damaged and a number of trees uprooted. No crop damage.
Carroll County	22	10:15 p.m.	20 yards	0	$3,100	High wind	Storm struck two farms one mile northwest of Wakenda. A new machine shed was damaged at one farm and a tree fell on the house of another. Wheat was damaged to some extent but damage not reported.
Putnam County	27	12:00 noon	100 yards	0	$2,000	Wind	Storm at Hartford, where one large barn, 40 by 100 feet destroyed. No trees taken down.
Phelps County	27-28	Night	....	0	$25,000	Electrical	The U. S. Bureau of Mines Building at Rolla struck by lightning. Top floors gutted by fire that broke out.

Time used on this tabulation is Central Standard Time, unless otherwise indicated.

WBO, St. Louis, 10-12-48—1130.

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CLIMATOLOGICAL DATA

19

MISSOURI SECTION

H. F. WAHLGREN
ST. LOUIS, MO.

NOV 18 1948

VOL. LII JULY 1948 No. 7

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GENERAL SUMMARY

This was a rather wet month, for July, over much of the State, and it averaged slightly cooler than normal. It was a favorable month for all growing crops, but was too wet, generally, for harvesting of small grains and hay harvest.

Although no unusually high temperatures occurred, the prevailing high humidity made the month very trying on man and beast and a number of heat prostrations were reported during the month, particularly in the larger metropolitan areas. 100° temperatures occurred on only one day and at only one station; however, temperatures of 90° or higher occurred on an average of 13 days during the month, for the State as a whole. There were no prolonged periods of either unusually warm or unusually cool weather during the month, with only minor day to day changes in daily averages. The averages by divisions, with departures from normal, were as follows:—Northern, 76.9°, exactly normal; Southwestern, 77.5°, —0.4°; Southeastern, 77.9°, —0.2°; for the State, 77.4°, —0.6°.

Precipitation during July occurred on an average of 11 days, for the State as a whole, and the distribution was very irregular, ranging from a monthly total of 14.75 inches at Owensville to only 0.84 inch at Van Buren. The average for each of three divisions, with departures from normal were:—Northern, 5.33 inches, +1.72 inches; Southwestern, 6.48 inches, +2.88 inches; Southeastern, 4.55 inches, +1.16 inches; for the State, 5.45 inches, +1.92 inches. This was the wettest July since 1924 and the tenth wettest month of its name in the past 61 years. As compared with July a year ago, 3.28 inches more rain fell over the State during this month than during last July. Several stations received more than 10 inches of rainfall during this month while a number of others received less than two inches, except in the Southwestern Division where the least monthly total at any station was 2.31 inches. Very heavy to excessive local downpours occurred locally on the 5th, 13th, 22d and 25th, when amounts between 4 and 5 inches occurred within a period of 24 hours, or less. These heavy concentrations of rainfall, over rather small areas, caused serious erosion of the soil and flooded small streams, creeks and drainage ditches in those areas as well as streets and many basements in the St. Louis area on the 5th and 25th, resulting in considerable damage to property and minor damage to crops and gardens.

Damaging storms occurred locally on the 19th, 22d, 25th, 26th, and 27th, but were not particularly severe anywhere, except in Linn County. Thunderstorms were unusually numerous during the month at many stations, but as a rule, only minor damage resulted. For details of damaging storms see special storm table printed elsewhere in this issue.

Minor to moderate floods occurred in portions of the Grand, Missouri, Meramec, and Osage rivers during July, resulting in considerable crop damage on lowlands adjacent to those rivers.

Rains that occurred almost daily during the latter half of June, continued quite generally through the month of July, but with diminishing frequency. As a result of these generous amounts of moisture over most of the State, all growing crops

(Continued on page 51)

PRESSURE, WIND, HUMIDITY, AND SUNSHINE

Stations	Sea-level pressure, extremes–inches: Highest	Date	Lowest	Date	Wind: Average hourly velocity	Maximum velocity ¶	Direction of maximum	Date	Relative humidity: 12:30 a. m.	6:30 a. m.	12:30 p. m.	6:30 p. m.	Percentage of sunshine	Degree days
Columbia.....	30.21*	1	29.67*	22	5.5	23	w.	22	87*	91*	63*	65*	56	0
K. C. Airport..	30.15	2	29.63	21	8.5	34	nw.	21	78	82	57	60	66	0
St. Joseph Ap't	30.13	1	29.60	21	6.5	38	nw.	29	86	90	63	62	54	0
St. Louis ...	30.24*	1	29.70*	22	8.6	36	nw.	19	84*	80	58	66*	71	0
Springfield ...	30.24	2	29.76	21	9.2	40	w.	16	88	91	66	68	74	0
Cairo, Ill.	30.25	2	29.75	22	6.3	27	sw.	12	..	87	60	..	80	0
....	.....	..	.....	..	....	..	......	..	..	..	..	..	..	....

* Data for Airport station. ¶ For 5-minute period.

COMPARATIVE DATA FOR ~~JUNE~~ JULY

Year	Temperature: Average for State	Highest	Lowest	Precipitation: Average for State	Average, Northern Division	Average, Southwestern Division	Average, Southeastern Division	Snowfall, Average for State	Number of days: Precip. .01 inch or more	Clear	Partly cloudy	Cloudy
1888............	79.3	111	50	2.85	4.44	1.50	2.62	0	7	..	..	..
1889............	77.1	107	46	4.02	4.22	3.80	4.03	0	8	..	..	..
1890............	79.6	110	42	3.04	3.12	3.90	2.10	0	5	..	..	..
1891............	72.7	103	45	3.23	4.13	4.16	1.41	0	8	..	..	..
1892............	75.8	102	45	4.88	5.27	4.95	4.43	0	9	12	10	9
1893............	77.3	103	51	4.67	4.72	6.19	3.10	0	8	14	12	5
1894............	76.5	109	42	2.67	1.48	3.43	3.11	0	5	18	10	3
1895............	74.4	106	45	6.77	6.36	6.91	7.03	0	10	10	12	9
1896............	77.3	108	48	5.51	7.53	4.34	4.66	0	9	15	11	5
1897............	78.7	106	48	3.14	4.11	2.70	2.62	0	6	19	9	3
1898............	76.1	104	42	5.72	5.00	5.71	6.44	0	9	16	10	5
1899............	76.0	102	43	4.50	4.88	4.32	4.30	0	9	15	11	5
1900............	76.9	102	46	4.15	3.91	4.58	3.96	0	8	17	10	4
1901............	85.4	116	46	2.02	2.23	1.93	1.90	0	5	19	10	2
1902............	77.0	103	50	4.10	5.95	4.54	1.80	0	8	17	11	3
1903............	77.4	102	51	3.40	2.79	3.56	3.85	0	8	17	10	4
1904............	74.2	100	47	4.61	4.86	5.32	3.65	0	10	15	11	5
1905............	73.4	101	48	8.07	4.86	9.90	9.46	0	12	12	10	9
1906............	74.7	100	48	3.54	2.33	4.11	4.19	0	8	17	9	5
1907............	78.4	105	51	4.56	6.62	3.78	3.28	0	8	19	8	4
1908............	76.5	101	49	3.36	3.36	3.09	3.64	0	8	18	9	4
1909............	76.7	102	41	6.16	7.01	6.33	5.14	0	10	17	8	6
1910............	76.8	109	46	5.79	4.79	4.59	7.99	0	9	16	9	6
1911............	78.0	113	43	3.68	3.41	4.78	2.86	0	8	16	9	6
1912............	78.8	104	52	2.88	2.15	2.53	3.95	0	7	18	9	4
1913............	80.2	108	47	3.10	2.52	2.86	3.93	0	7	18	9	4
1914............	80.5	109	45	2.67	2.48	3.98	1.56	0	7	17	9	5
1915............	74.6	102	42	5.74	9.05	4.39	3.78	0	12	14	9	8
1916............	81.6	109	52	1.22	1.28	1.01	1.36	0	3	25	5	1
1917............	77.5	107	42	3.08	1.71	3.36	4.18	0	8	20	8	3
1918............	77.1	110	41	1.62	1.98	1.89	1.00	0	6	19	8	4
1919............	80.0	105	50	2.30	3.00	2.21	1.69	0	5	23	6	2
1920............	76.3	105	47	3.30	3.69	3.17	3.05	0	7	18	8	5
1921............	80.3	109	46	2.32	2.29	2.39	2.28	0	5	20	8	3
1922............	76.8	103	46	5.50	6.87	5.57	4.06	0	8	17	9	5
1923............	78.2	105	50	3.16	2.61	4.29	2.59	0	6	18	8	5
1924............	73.3	103	40	5.55	4.42	6.65	5.57	0	10	15	11	5
1925............	77.9	106	46	2.70	2.56	2.76	2.79	0	7	16	10	5
1926............	78.0	108	40	3.07	3.66	2.54	3.02	0	7	17	9	5
1927............	75.8	101	48	4.16	2.82	5.38	4.28	0	8	18	9	4
1928............	77.2	102	48	2.93	3.47	3.15	2.16	0	7	17	10	4
1929............	77.8	104	50	4.03	5.50	2.58	4.01	0	8	16	10	5
1930............	81.2	113	42	1.00	0.50	1.48	1.01	0	3	22	7	2
1931............	80.3	110	49	3.31	2.83	3.45	3.65	0	7	18	9	4
1932............	79.8	109	48	3.61	3.89	4.08	2.85	0	7	19	8	4
1933............	79.3	108	49	2.67	1.73	2.44	3.84	0	5	18	9	4
1934............	86.2	117	48	1.18	0.82	1.22	1.50	0	4	20	9	2
1935............	80.8	104	53	3.30	3.90	2.06	3.94	0	6	20	9	2
1936............	85.3	118	44	1.52	0.72	1.48	2.37	0	3	23	6	2
1937............	77.9	105	45	4.06	4.80	3.34	4.05	0	8	17	11	3
1938............	79.7	110	53	3.50	2.91	2.58	5.00	0	7	19	8	4
1939............	80 0	107	51	2 91	3.13	2.24	3.37	0	6	19	9	3
1940............	77.7	111	45	1.58	1.47	1.55	1.73	0	4	19	9	3
1941............	79 3	110	46	2.75	2.50	3.02	2.74	0	7	16	11	4
1942............	78.8	104	50	2.85	3.68	2.72	2.15	0	7	17	11	3
1943............	79.6	104	46	2.49	3.68	1.77	2.02	0	6	18	10	3
1944............	77.6	105	40	2.62	2.44	2.97	2.46	0	7	17	10	4
1945............	75.1	105	44	2.10	1.87	2.50	1.92	0	6	18	9	4
1946............	78.9	107	48	2 68	2.44	2.64	2.96	0	5	18	10	3
1947............	75.0	108	39	2.17	1.97	2.43	2.10	0	5	20	8	3
1948............	77.4	102	46	5.45	5.33	6.48	4.55	0	11	..	..	..
Period..........	**78.0**	**118**	**39**	**3.53**	**3.61**	**3.60**	**3.39**	**0**	**7**	**18**	**9**	**4**

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Climatological Data for July 1948

Stations	Counties	Elevation, feet	Temperature, in degrees Fahr.									Precipitation, in inches						Number of days			Observers
			Length of record, years	Mean	Departure from the normal	Highest	Date	Lowest	Date	Number of days: Maximum 90° or above	Number of days: Minimum 32° or below	Length of record, years	Total	Departure from the normal	Greatest day	Date	Total snowfall, unmelted	With precip., .01 inch or more	With precip., .25 inch or more	With precip., 1.00 inch or more	
Northern Division																					
Albany	Gentry	930	7	77.0	......	97	6	53	23	11		19	1.82	−2.81	0.54	11	0	10	3	0	William J. Butler
Amity	DeKalb	1,007	2	76.8	......	95	6†	52	23	9		13	4.89	+1.76	1.84	11	0	12	6	1	O. M. Colhour
Bethany	Harrison	916	53	76.6	+ 0.3	95	5†	51	31	9		55	1.58	−2.58	0.38	22	0	9	2	0	B. A. McGregor
Brookfield	Linn	767	7	78.8[a]	......	102	7	55	23†	20		7	4.13	......	1.13	28	0	10	3	1	G. F. Breen
Brunswick	Chariton	652	67	77.8	+ 1.7	97	7	57	24†	14		69	5.80	+1.69	2.26	22	0	11	5	2	O. K. Benecke
Canton, Lock & Dam 20	Lewis	488	10	77.4	+ 0.4	93	2†	52	1	15		18	7.54	+5.21	2.20	22	0	9	5	4	Lockmaster
Carrollton	Carroll	754	2	78.2	......	98	7	56	23†	16		2	7.69	......	2.38	22	0	11	7	3	Harold E. Finley
Chillicothe 2 mi ESE(C)	Livingston	771	39	77.0	0.0	96	6†	55	23†	18		42	2.59	−0.83	0.46	22†	0	9	6	0	Civil Aeronautics Adm.
Columbia	Boone	740	58	78.2	+ 0.9	96	6†	56	24	11		58	6.35	+2.86	2.24	19	0	12	6	2	U. S. Weather Bureau
Conception	Nodaway	1,108	59	78.0	+ 1.4	95	6†	53	23	18		64	3.48	−1.19	1.78	29	0	9	3	1	Fr. Adelhelm Hess
Edgerton	Platte	856	28	77.4	+ 1.3	96	6†	53	23	12		45	3.75	+0.25	2.19	19	0	6	4	1	Leroy H. Mindrup
Elsberry	Lincoln	449	17	75.7	− 3.7	95	6	48	1	17		17	9.24	+7.25	2.91	11	0	10	6	4	Soil Conservation Service
Fayette	Howard	760	68	77.8	+ 0.1	97	7	53	24	11		65	4.38	+1.13	1.16	19	0	10	6	1	Irvin E. Schnell
Fulton	Callaway	818	60	77.0	− 0.7	95	6	56	23	10		56	6.48	+3.19	1.55	26	0	10	7	3	Frank E. Hillgartner
Grant City	Worth	1,134	44	76.4	+ 0.2	96	6†	51	23	12		56	1.97	−2.66	0.80	29	0	6	2	0	J. Homer Korn
Hannibal	Marion	759	56	76.2	− 0.6	95	6	56	23	4		64	5.94	+2.85	1.76	22	0	11	5	3	Hannibal Water Dept.
Kansas City Airport	Jackson	741	59	79.5	+ 1.4	98	6†	58	23	13		59	7.29	+3.47	1.21	19	0	12	10	2	U. S. Weather Bureau
Kidder	Caldwell	1,020	56	76.2	− 0.4	96	6	51	23	9		60	2.15	−1.73	0.57	13	0	7	4	0	Mrs. Geraldine Terry
Kirksville	Adair	969	59	76.4	+ 0.4	98	6	54	23	10		66	5.74	+1.44	2.87	22	0	11	5	1	Dow Jones
Kirksville Airport	Adair	970	9	75.9	......	95	6	54	23	6		9	4.81	......	2.21	22	0	12	4	2	Civil Aeronautics Adm.
Lathrop	Clinton	1,071	1	77.4	......	96	6	53	23	11		1	4.20	......	1.38	19	0	9	6	1	E. L. Fisher
Louisiana	Pike	469	54	76.3	− 0.1	97	6	50	1	12		67	8.61	+5.01	1.80	26	0	14	8	5	Stark Bro's Nurseries
Macon	Macon	875	49	76.3	− 0.9	97	6	54	23	12		55	4.79	+1.38	2.01	22	0	14	5	1	John W. Atwell
Maryville	Nodaway	1,169	58	74.9	− 0.8	94	6†	50	23	5		54	3.81	−1.42	1.72	29	0	9	5	1	R. B. Montomery
Memphis	Scotland	787	9	76.0	+ 0.3	99	6	54	1†	11		18	4.44	+1.64	1.66	26	0	11	6	1	John W. Alexander
Mexico	Audrain	800	59	77.9[a]	+ 0.6	95	6†	53	24	15		70	4.96	+1.75	1 04	22	0	11	5	1	D. N. Woods
Moberly .....3½ mi. NE	Randolph	860	11	77.5[i]	− 0.1	96[i]	6†	55[j]	24	7[i]		11	4.00	+1.40	1.70	22	0	7	5	1	Robert J. Platter
New Florence. 1 mi SE	Montgomery	885	5	75.8	......	93	6	54	24	3		6	7.92	......	2.20	19	0	13	7	4	U. S. Weather Bureau
Oregon	Holt	1,093	92	77.0	+ 1.4	95	6†	53	23	8		92	5.11	+0.93	2.20	29	0	11	4	1	James M. Curry
Polo	Caldwell	1,000	2	76.4[d]	......	92[g]	8	54	23	6[g]		2	2.87	......	0.93	30	0	10	3	0	F. B. Albright
St. Charles	St. Charles	520	60	79.3	+ 1.2	98	6†	56	1†	20		70	7.99	+5.00	4.05	26	0	9	5	2	Mrs. Myrtle Bregel
St. Joseph Airport	Buchanan	957	38	78.4	+ 1.0	96	6†	56	23	12		76	6.82	+3.04	3.13	29	0	14	6	2	U. S. Weather Bureau
Salisbury	Chariton	723	2	78.0	......	98	6	54	24	18		2	4.29	......	1.74	22	0	11	4	1	David H. Robertson
Saverton, Lock No. 22.	Ralls	472	10	76.2	− 0.8	95	6	54	1	12		10	7.69	+5.31	2.11	14	0	12	6	3	Lockmaster
Shelbina	Shelby	779	7	76.5	......	97	6	53	24	13		55	5.46	+1.59	1.32	5	0	13	7	2	Guyman Hatcher
Steffenville	Lewis	650	50	76.0	− 1.8	96	5	53	1	6		55	8.29	+4.18	2.37	5	0	12	9	3	Mrs. Fannie V. Gross
Tarkio	Atchison	916	45	76.2	− 0.6	94	6†	51	23	10		54	2.73	−1.42	0.85	29	0	11	3	0	Civil Aeronautics Adm.
Trenton	Grundy	822	52	77.5[b]	+ 0.7	97[b]	6	55[b]	23†	10[b]		53	2.62	−1.45	0.60	14	0	10	5	0	W. H. Estes
Unionville	Putnam	1,062	55	75.2	− 1.3	97	7	51	24	9		55	1.89	−2.23	0.53	14	0	9	2	0	George D. Choate
Vandalia	Audrain	766	4	75.4	......	92	6	54	24	2		9	8.02	......	1.42	26	0	13	8	3	Mrs. Naomi K. Stoutz
Warrenton	Warren	880	66	76.4	− 1.4	95	6	50	24	8		58	9.55	+6.41	3.45	26	0	13	8	3	W. T. Zimmerman
Keokuk, Iowa	Lee, Ia.	574	76	76.4	− 0.5	96	6	57	23	5		76	7.76	+4.35	2.93	25	0	10	5	3	U. S. Weather Bureau
Division means	**and extremes**	.....	..	**76.9**	**0.0**	**102**	**7**	**48**	**1**	**11**		..	**5.33**	**+1.72**	**4.25**	**22**	**0**	**11**	**5**	**1**	
Southwestern Division																					
Anderson ...1½ mi SW	McDonald	1,000	44	75.4	− 1.9	93	27	53	1	12		49	8.47	+4.06	2.47	18	0	10	7	3	Samuel G. Chamberlain
Appleton City	St. Clair	800	53	77.6	− 0.6	97	7	52	23	16		56	8.10	+3.79	2.90	26	0	12	8	2	F. Paul Eye
Bolivar	Polk	1,071	45	77.8	+ 0.5	94	7†	59	24	12		53	4.09	+0.37	1.70	26	0	12	3	2	Southwest Baptist College
Boonville	Cooper	650	10	76.0	− 1.4	98	6	56	28	7		71	6.24	+3.00	1.52	19	0	12	11	1	Boonville Water Dept.
Butler	Bates	865	2	77.6	......	95	7	56	23	10		7	9.53	......	3.00	20	0	12	8	3	Harley W. Johnson
Camdenton	Pulaski	940	2	78.4	......	94	7†	57	24	17		2	8.34	......	3.80	19	0	9	7	3	Mo. Conservation Com.
Caplinger Mills	Cedar	764	0	77.6	......	95	7	58	31	13		22	7.07	+3.31	1.70	26	0	14	8	2	Sherman E. Price
Carthage	Jasper	962	14	78.2	......	94	7†	59	31	16		24	11.06	......	4.28	26	0	12	9	4	Carthage W. and E. Plant
Clinton	Henry	786	55	78.0	− 0.3	96	8	57	24	13		61	8.72	+5.29	2.43	25	0	13	6	3	U. S. Weather Bureau
Eldon	Miller	934	53	77.4	+ 0.2	95	7†	55	24	9		49	5 62	+2.40	1.77	26	0	11	5	2	Arthur Rothwell
Harrisonville	Cass	904	70	76.9	− 0.8	95	7	55	23	8		73	11.96	+8 35	3.87	26	0	16	10	5	Jeffrey B. Patterson
Jefferson City	Cole	557	58	76.4	− 1.7	96	7	51	24	7		66	5.32	+2.21	1.95	26	0	12	5	2	K. W. O. S. Radio Farm
Joplin Airport	Jasper	988	26	79.6	+ 1.5	96	7†	62	31	21		43	7.82	+3.20	2.90	26	0	10	8	2	Civil Aeronautics Adm.
Kansas City Univ.	Jackson	908	10	78.5	− 1.0	97	6	57	24	13		10	8.35	+5.79	1.48	26	0	12	9	4	University of Kansas City
Lakeside	Miller	595	17	77.8	− 2.7	97	7	55	24	15		17	3.65	+1.50	1.51	26	0	11	4	1	W. S. Frame
Lamar	Barton	980	60	76.1	− 2.3	92	7†	59	31	9		67	9.85	+5.63	3.65	11	0	12	6	2	Mrs. Marie Mann
Lebanon	Laclede	1,265	60	76.3	− 0.6	94	7	55	24	9		61	3.66	−0.30	1.04	26	0	10	7	1	Mrs. Rosa E. Montelius
Lexington	Lafayette	688	63	79.0	+ 1.6	98	7	57	23	18		64	7.57	+3.56	2.18	22	0	10	7	3	William H. Cullon
Lockwood	Dade	1,078	42	78.6	+ 1.0	95	7	59	1	15		52	5 66	+0 90	1.65	26	0	11	6	1	Hubert A. Nieman
Marshall Airport	Saline	779	61	76.9	− 0.7	97	7	54	23†	12		58	5.14	+1.57	1.53	19	0	11	5	2	Civil Aeronautics Adm.
Marshfield	Webster	1,484	3	76.6	......	93	7†	57	24	11		7	5.61	......	1.83	26	0	12	5	2	Sho-Me Power Co.
Monett	Barry	1,317	1	76.5	......	91	7†	59	2	6		1	4.52	......	1.98	26	0	10	6	1	Mo. Univ. Fruit Exp. Sta.
Mountain Grove	Wright	1,463	47	76.6	+ 0.2	94	7	56	1	11		51	2.40	−1.49	1.19	26	0	11	3	1	Mo. Fruit Exp. Station
Mount Vernon	Lawrence	1,174	36	....	......	..	..	..	..	..		48	....	......	....	..	....	..	..	..	John C. Heying
Neosho	Newton	1,011	61	78.5	+ 1.0	95	7	56	1	20		65	8.89	+4.24	2.81	26	0	14	7	4	U. S. Fisheries Station
Nevada	Vernon	862	55	78.4	− 1.2	96	7	59	23†	17		56	8.70	+5.04	2 87	12	0	15	8	2	Henry Kraft
Ozark Beach	Taney	700	8	79.8	......	99	7	58	1	22		23	3.85	+0.46	0.90	26	0	10	7	0	Empire District Elec. Co.
Sedalia	Pettis	910	35	78.0	+ 0.5	95	7	56	23	13		37	8.36	+3.92	1.82	20	0	13	7	3	Dr. J. E. Cannaday
Seligman	Barry	1,542	47	76.8	− 0.4	91	27†	59	2	6		45	4.21	+0.09	0.99	19	0	9	6	0	Floyd E. Fawver
Seymour ....4 miles NE	Webster	1,642	42	....	......	..	..	..	..	..		42	....	......	....	..	0	..	..	..	Ira H. Hailey
Springfield...4 mi. NW	Greene	1,265	60	76.2	0.0	92	7†	58	1	7		60	5.08	+0.87	1.56	26	0	12	6	2	U. S. Weather Bureau
Sweet Springs	Saline	700	7	77 6	......	97	6	55	24	12		7	6.20	......	1.61	19	0	9	6	3	H. F. Nelson
Warrensburg	Johnson	878	61	78.5	− 0.3	96	7	57	23	13		68	7.82	+3.85	3.42	26	0	10	6	2	Central Teachers College
Warsaw	Benton	687	47	78.3	0.0	96	7	58	23†	13		53	7.47	+3.46	2.00	26	0	15	7	2	Dora B. Johnson
Wasola	Ozark	1,294	7	77.4	......	96	7	60	4	12		8	3.92	......	0.92	26	0	10	6	0	A. W. Pinckney
Waynesville...1¼ mi. E	Pulaski	805	2	..	......	..	..	..	..	..		2	....	......	....	..	....	..	..	..	Fred M. Sanderson
Division means	**and extremes**	.....	..	**77.5**	**− 0.4**	**99**	**7**	**51**	**24**	**13**		..	**6.48**	**+2.88**	**4 28**	**26**	**0**	**12**	**7**	**2**	
Southeastern Division																					
Advance.... ¼ mile W	Stoddard	354	11	77.8	− 0.4	94	17†	52	2	22		11	3.51	+0.15	2.01	5	0	8	2	1	U. S. Weather Bureau
Arcadia	Iron	926	67	76.0	+ 0.2	94	22	50	1†	12		70	5.74	+1.62	3.20	6	0	8	6	2	Arcadia College
Birch Tree... ½ mile E	Shannon	1,000	53	76.9	+ 0.3	95	7	51	1	17		54	4.48	+0.90	1.20	7	0	9	5	1	Mrs. Mildred E. Catlett
Black.......9 miles NW	Iron	1,000	55	....	......	94	6	..	..	10		55	3.26	−0.43	1.60	6	0	3	3	2	J. Cornell Shy
Campbell	Dunklin	314	22	79.0	− 1.4	96	17	57	2†	21		22	2.01	−1.47	0.50	18	0	6	6	0	Mrs. Ruth Christian
Cape Girardeau	Cape Girardeau	347	3	78.8	......	95	21	56	2	20		48	2.00	−1.42	0.52	26	0	10	4	0	State Teachers College
Caruthersville	Pemiscot	265	52	80.6	− 0.7	96	7	62	2	20		56	3 71	+0.42	2.57	13	0	5	2	1	Victor T. Malloure
Clearwater Dam	Wayne	648	2	78.0	......	95	20†	52	2	15		2	1.20	......	0.52	23	0	8	2	0	U. S. Engineer Office
Crystal City	Jefferson	420	14	78.3	− 1.3	95	6†	52	1†	21		14	6.55	+3.34	3.20	26	0	9	6	2	Richard K. Ragland
Doniphan	Ripley	344	44	78.8	+ 0.2	97	21†	50	2	23		44	1.50	−2.54	0.67	18	0	7	2	0	Boyce Lackey
Farmington	St. Francois	896	37	75.2	− 1.1	93	21	48	24	10		51	4.33	+0.77	1.75	26	0	10	3	2	F. M. Karsch
Greenville...1 mile SW	Wayne	415	39	78.2	+ 0.8	96	11	52	1†	18		41	3.51	−0.25	0.99	16	0	9	4	0	C. L. Rubottom
Jackson	Cape Girardeau	428	57	79.4	+ 1.8	96	17	52	2	24		58	2.38	−1.16	0.63	19	0	13	2	0	Danny Siebert

Continued on next page

Climatological Data for July 1948—Continued from preceding page

Stations	Counties	Elevation, feet	Temperature, in degrees, Fahr.							Number of days		Precipitation, in inches						Number of days			Observers
			Length of record, years	Mean	Departure from the normal	Highest	Date	Lowest	Date	Maximum 90° or above	Minimum 32° or below	Length of record, years	Total	Departure from the normal	Greatest day	Date	Total snowfall, unmelted	With precip., .01 inch or more	With precip., .25 inch or more	With precip., 1.00 inch or more	
Southeastern Division—	*Concluded*																				
Koshkonong	Oregon	958	47	78.6	− 0.2	96	7	57	2	16		48	2.12	−1.65	0.77	5	0	8	4	0	Mrs. Genevieve T. Smith
Licking...... 4 miles N	Texas	1,170	11	75.8ᶜ	− 1.4	94	7	53	1	4		11	4.92	+2.35	2.16	6	0	4	3	2	Fern E. Austin
Marble Hill	Bollinger	532	53	76.4	− 1.4	96	21†	46	2	21		55	2.76	−1.26	0.77	26	0	9	5	0	R. A. DeWitt
Poplar Bluff	Butler	339	43	80.2	+ 1.0	97	17	57	1	25		44	1.09	−2.85	0.57	16	0	6	1	0	Osmon M. Richardson
Rolla	Phelps	1,202	48	....	......	95	7	54	24	..		64	7.38	+3.99	2.18	6	0	11	6	3	Rolla School of Mines
St. Louis:																					
City Office	....	465	111	79.2	+ 0.4	94	6	62	23	13		111	7.30	+4.32	2.88	25	0	12	7	2	**Section Center**
St. Louis Airport	St. Louis	556	11	78.4	+ 0.6	97	28	58	1	14		17	12.69	+10.03	4.68	5	0	14	6	3	U. S. Weather Bureau
St. Louis University	St. Louis City	578	36	78.7	− 1.8	95	6	62	1†	10		36	7.72	+4.54	2.81	25	0	11	7	3	St. Louis University
Salem	Dent	1,206	44	76.7	− 0.1	95	8	52	1	12		47	6.39	+2.89	3.48	6	0	9	4	3	E. E. Martin
Sikeston	Scott	318	41	79.4	+ 0.8	97	21	50	1	21		51	3.68	−0.04	1.32	23	0	6	6	2	Mrs. Lucy W. Humphreys
Union........1½ mi. SE	Franklin	620	10	76.4	− 1.8	94	6	52	1†	9		31	8.90	+4.96	4.54	26	0	10	4	2	Cornelius Sieges
Vichy ....2 mi. NW	Maries	1,125	12	76.8	......	94	7	57	24	6		13	5.98	......	1.72	12	0	14	7	2	Civil Aeronautics Adm.
Wappapello Dam	Butler	475	9	79.0	+ 0.9	97	21	59	1†	18		9	2.21	−0.74	1.96	23	0	6	1	1	U. S. Engineer Office
Webster Groves	St. Louis	507	2	77.6	......	95	6†	52	1	17		3	9.26	......	2.43	6	0	11	6	4	R. W. Lawric
Weingarten	St. Genevieve	833	7	76.9	......	93	6†	55	2	15		8	6.26	......	2.30	26	0	7	6	2	William J. Miller
West Plains	Howell	1,005	11	77.1	− 0.6	95	27	51	2	13		11	2.60	+0.16	0.98	6	0	10	4	0	U. S. Weather Bureau
Willow Springs 500 ft E	Howell	1,238	7	75.8	......	92	7	51	2	4		41	4.50	+0.70	0.82	8	0	11	8	0	Allen Frazee
Cairo, Ill.	Alexander, Ill.	314	76	80.8	+ 0.2	95	4	62	2	21		77	3.77	+0.70	0.98	22	0	10	5	0	U. S. Weather Bureau
Division means	**and extremes**	.....	..	**77.9**	**− 0.2**	**97**	**17†**	**46**	**2**	**15**		..	**4.55**	**+1.16**	**4.68**	**5†**	**0**	**9**	**4**	**1**	
State means	**and extremes**	.....	..	**77.4**	**− 0.6**	**102**	**7**	**46**	**2**	**13**		..	**5.45**	**+1.92**	**4.68**	**5†**	**0**	**11**	**5**	**1**	

The departures from normal temperature are computed from the averages of the entire period for stations having 10 or more years of record. Departures of precipitation for stations with 15 years or more of record are computed from a normal or "standard mean", adjusted to a uniform 35-year period: for stations of 10 to 14 years the means for the period of record are used. The normal may be found by adding the departures when minus (−) or subtracting when plus (+). Figures and letters following stations indicate distance in miles and direction of station from the city Post Office, unless otherwise indicated. T. Trace or 0.005 inch or less. ᵃ, ᵇ, ᶜ, etc., number of days missing: for example, ᵇ, indicates two days missing. Italics data interpolated. § Partly interpolated. † And other dates. ‡ Received too late to be included in means and summaries. Post office address of: Altona is Adrian; Clearwater Dam is Piedmont; Crane Mountain is Arcadia; East End is Goodland; Hailey is Cassville; High Lookout is Birch Tree; Macedonia Lookout is Doniphan; Oates Tower is Centerville; Perry is Center; Pineview Lookout is Cape Fair; Sugar Camp Lookout is Seligman; Topaz is Cabool; Wilderness Lookout is Lampe. (C) Airport. ¶ Indicates plus.

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and grasses made exceptional growth and development, but the frequent rains and wet fields greatly hampered the harvesting of small grains and haying operations. Harvesting of the wheat and oat crops was practically completed during the month, but considerable loss of these crops occurred as continued wet fields prevented some combining, and some grain sprouted in the shock. Considerable wheat that was harvested had an unusually high moisture content, as a rule. Corn made very good growth during July and the bulk of the crop was in the tasseling stage by the end of the month, but many fields were weedy and grassy because of a lack of cultivation caused by continued wet fields. However, a record-breaking corn crop was expected to be harvested this year, based on condition of the crop at the end of July. The soybean and cotton crops made very good growth and development during the month and were in very good to excellent condition at the close, although most fields were somewhat weedy, as a rule. Bolls were about ready to open in early cotton fields at the end of July. Pastures and late hay, particularly lespedeza, were in very good to excellent condition at the end of the month and a large crop of lespedeza hay was in prospect. Gardens and truck crops made good development and growth during July and were in good condition at the end of the month, except there was too much moisture for tomatoes in the wetter areas of the State. A rather small crop of early peaches of inferior quality was marketed during the month and harvest of the late peach crop was getting underway by the end of the month. Other fruits were only fair and only about one-half a normal crop of apples was expected to be harvested this year. The ample moisture and warm humid weather during July were ideal for the growth of lawns and weekly, or more frequent, cuttings were necessary to keep the grass down and to maintain an attractive appearance; this proved to be quite an ordeal for many of the State's sweltering citizens.—M. R. W.

TEMPERATURE

The monthly mean for the State, 101 stations reporting, was 77.4°, or 0.6° cooler than the 61-year July average. The highest monthly mean was 80.6° at Caruthersville, and the lowest was 74.9° at Maryville. The highest reported was 102° at Brookfield on the 7th, and the lowest was 46° at Marble Hill on the 2d.

PRECIPITATION

The average for the State, 211 stations reporting, was 5.45 inches, or 1.92 inches more than the 61-year July average. The reatest monthly amount was 14.75 inches at Owensville, and the least was 0.84 inch at Van Buren. The greatest amount reported in a observational day was 4.68 inches at St. Louis Airport on the 5th and at Deering on the 13th. The average number of days with 0.01 inch, or more, was 11.

MISCELLANEOUS PHENOMENA

Floods.—In Grand River, at Brunswick on 1st and 23d. In Missouri River, at Waverly, continued from June to July 1st; 23d to 24th; 31st and continued into August; at Hermann and below, continued from June to July 4th; 26th to 29th. In Meramec River, at Meramec Park, on 8th; at Pacific on 9th and 26th; at Valley Park, 26th to 27th. In Osage River, at Warsaw and below, continued from June to July 4th; at Osceola, on 31st and continued into August; at Lakeside, 6th to 9th, 11th to 15th, 17th and continued into August.

Fogs.—Heavy, 8th, 9th, 11th, 13th, 14th, 15th, 16th, 19th, 21st, 27th, 28th.

Hail.—Light, 5th in St. Louis County; 10th at Louisiana; 12th at University of Kansas City; 14th at Stover; 21st at Oregon. Moderate, 21st at Maryville; 27th at Brookfield and near Browning. Heavy, 27th in Linn County. (See special storm table).

Windstorms.—19th, 22d, 25th, 26th, 27th. (See special storm table).

Daily Precipitation for July 1948

Stations	Drainage-basins	Day of month																															Total
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Northern Division																																	
Albany	Grand				.03					.05		.54	T.		.15				.07	.02			.37			.16				.37	.06		1.82
Amity	do				.07					T.	.25	1.84	.54		.09	T.	T.		.06	.26	.08		.27			.08				.04	.81		4.39
Auxvasse[2]	Missouri					1.58	.11					2.14		.15	T.	1.15	.05			T.	1.57	.34	1.78				2.08		T.	.11			11.06
Bethany	Grand	.18			T.						T.	.15	.13		.12	T.			.06	T.			.38			.32				.16	.08		1.58
Bowling Green[2]	Mississippi						1.86								.06	.03		.15			1.88	.42	.73				.79						5.92
Brookfield[2]	Grand											.20	.03	.75	.05	.17				.10		.23	.63			T.	.84		1.13				4.18
Browning 3 mi. NE	do	T.			T.							.08	.85	.42	.07	T.	.01	.13	.01	.09		.06	1.30			.67		.92		.01	.09		4.71
Brunswick[2]	do					T.							.02	.04		.42				.90	.13	.17	2.26	.10			1.27		.35		.14		5.80
Canton, Lock No. 20[2]	Mississippi				.10	1.32	.70							T.	T.	1.75	.03				.04	.07	2.20				1.33		T.		T.		7.54
Carrollton	Missouri				T.								.55	.20	T.	.03				.82	.37		2.38			1.47	.13	1.20	.22		.32		7.69
Centralia[2]	Mississippi				1.20		.31								1.23	.42	.44				.76	.45	1.06				.77						6.64
Chillicothe[2] (B)	Grand		.28									.88	.02	T.	.18					.05	.11		1.10				.49		T.		.37		3.48
Chillicothe[3] 2 mi ESE (C)	do	.06			T.							T.	T.	.25		T.				.17	.08	.45	.46			.34		.46		.32			2.59
Columbia[1, 5]	Missouri			.02	1.14	T.							T.	.14	T.	.56				2.24	.41	.11	.69			.75	.03	T.		.08	.18		6.35
Columbia[5] 9 mi. WNW	do				.76						T.		.07	.06		.24				1.51	.62		.46				.49				.20		4.41
Conception	do				.55					.22	.08			.06	.57				T.	.04			.03							1.78	.15		3.48
Edgerton[2]	do										.02		T.			.07			T.	2.19	*	.41	.26				T.				.80		3.75
Edina[2]	Mississippi						.38						.20	.03	.13	.20			T.		.10	.18	2.50	.02			.33				.04		4.11
Elsberry S. C. S.[2]	do					1.10	.22					2.91		.02		.26					2.13	.19	.86	.23			1.32						9.24
Fayette	Missouri				.59	T.							.09	T.	T.	.34	T.	T.		1.16	.49	.12	.82			.15	.50				.12		4.88
Fulton[2]	do				.15	1.04						.90		.08	.39	T.					1.05	.25	.92				1.55				.15		6.48
Gallatin[2]	Grand												.45			.41				.22	.03		.48				.24				.22		2.05
Grant City	do				.17					T.		.15	.01		.73	T.			T.			T.				.11				.80			1.97
Hannibal[1] (A)	Mississippi				.42	1.39							.23	.05	.18	.38				.23	.05	.10	1.76			1.15					T.		5.94
Hannibal[2] (B)	do				T.	.37	1.30							.24	T.	.19	.24				.17	.13	1.55	T.			1.10				T.		5.29
Kahoka[2]	do					.20	2.02						.02		.17	.28						.16	2.50				1.57		.29				7.21
Kansas City Airport[1, 5]	Missouri			T	T.					.87	.08	T.	1.18		.26	.74		T.	T	1.21	.92	.33	.48			.92		.29		.01			7.29
Kidder[2]	Grand				T.									.57					T.	.49	.14	.04	.18				.33				.40		2.15
King City	Missouri				T.					.43		.11	.07		.73								1.10							.65	.35		3.44
Kirksville	Mississippi											.02		.71	.53	.31		.11		.02		.09	2.87			.96		.05			.07		5.74
Kirksville Airport[3, 5]	do			T.	T.	T.						.07	.01	.42	.67	.13		.04		.04		.07	2.21			1.02				.04	.09		4.81
LaBelle[2]	do					.51	2.48					T.	T.		.18	.73	.15			.09		.16	4.25				.85			.10			9.50
Lathrop	Grand				T.							.29	.34		.02		.06			1.38	.44		.15			.62				.90			4.20
Linneus	do	.01										.08	.08		.11					.15	T.		.46			1.10		.25			.35		2.59
Louisiana (A)	Mississippi				1 27	1.10					1.23		.04	.37	.06	.66		.10	.02	.23	.33	.05	1.35				1.80						8.61
Louisiana[2] (B)	do				T.	1.40	1.14					.70		.12	.05	.07	1.49	.03			.24	.25	1.76	T.			1.70				T.		8.95
Lucerne[2]	Grand					T.									.03	.67							.38			.12	.13		.17		.09		1.59
Macon[2]	Chariton				.01	.09	.26						.08	.57	.21	.10	.02			.07	.28	T.	2.01	.17			.71				.21		4.79
Madison[2]	Mississippi				.46		.30													.65	.15		1.40			.55							3.51
Martinsburg[2]	Missouri				.13	1.64						.07		T.	.02	.03	.33	T.		T.	.75	.15	1.90				1.60		.08		.06		6.76
Maryville	do				.21					.37	.05	T.			.64					.03		.29	.05			.45				1.72			3.81
Memphis[2]	Mississippi				T.	.20	.68					.08		.24	.05	.30	T.					.06	.52	.35			1.66		.30				4.44
Mexico[2]	do				.96	.24	.68							.06			.08				.88	.20	1.04				.70		.04		.08		4.96
Milan[2]	Grand												.09		.09						.03	.17	.37	.39			.49		.05		.11		1.79
Moberly[2] 3½ mi. NE	Mississippi				*	*	.90							*	.14	.54		T.		.42	.02		1.70				.28						4.00
Monroe City	do				.90	.88						.12	.48	2.80	.36	.49				.22		.16	1.33				.81				.06		8.61
New Florence[3, 5] 1 mi SE	Missouri			.01	1.19	.30					.13		T.	.18	.79	T.				2.20	.12	.09	1.05			1.46	.36	T.			.04		7.92
Oregon[1]	do	T.			.70					.14	.20	.14	.03	.06					.60	.22		.72				.10				2.20			5.11
Palmyra[2]	Mississippi				.26	.32	.90									.55	.10					.50	1.46				.83					.03	4.95
Paris[2]	do				.28	.29	.93							T.		.02					.50	.30	1 80	.01			.50						4.63
Perry 1 mile E	do				.70	.60							.03	.15		.15				.05	.30	.10	.60			.05	.55						3.28
Philadelphia	do				.27	1.30						.15	.10	1.58	.52	.10			.27	.13	.05	.06	1.08			T.	1.16				T.		6.77
Polo[2]	Missouri												.10		.15	.03				.65	.08	.22	.15				.54		.02		.93		2.87
St. Charles[2]	do					.38	.75					.04	T.	T.	.03	.60				T.	1.90	T.	.11	.13			4.05					T.	7.99
St. Joseph Airport[1, 5]	do				.08					.28	1.05	.21	.85		.13	.02	T.		.07	.51	.09	.07	.30			.03				3.13			6.82
Salisbury	Chariton				.10								.14		.15	.24				.60	.16	T.	1.74			.51	.05	.46			.14		4.29
Saverton, Lock No. 22[2]	Mississippi				.05	.94	.81					.11		.86	2.11	.13	.05				.20	.06	1.04	T.			1.33				T.		7.69
Shelbina	do				.60	1.32					.07			.30	.27	.81		.04		.20	T.	.07	1.26			.39	.10				.03		5.46
Shelbyville	do				1.27	1.25							.35	.67	.62	.49				.21			.79				.27						5.92
Steffenville	do				.91	2.37						.35	.39	1.18	.48	.30				.13			.78			1.24	.14				.02		8.29
Tarkio[3]	Missouri				.65					.70	.01	.18	.12	.04	.05				T.	.02		.10				.01				.85			2.73
Trenton[2]	Grand	T.	.25										.05	.02	.60					.35		.03	.50			.12	.22				.48		2.62
Troy[2]	Mississippi				.20	1.25	.22					1.20			.36	.08	.06			2.25	.60	.26	.45	.01			3.50					T.	10.44
Unionville[2]	Chariton				T.	.05							T.	T.	.53	.23	.16						.39	.07		.21	.22				.03		1.89
Vandalia[2]	Mississippi				1.37	.60					.23		.70	.93	.02	.20				.20	1.00	.53	.80				1.42				.02		8.02
Warrenton	do				1.43	.22	.03				.39		.07	1.23	T.	.13				.98	.67	.34	.55	T.			3.45				.06		9.55
Keokuk, Iowa[1]	do				.03	2.29					T.			.01	.04	.45					.04	1.30	.61			2.93		.06			T.		7.76
Southwestern Division																																	
Altona[2]	Osage				T.						.43	.90	1.00	.46		.55		.45	.17	.15	2.00	.80	.30				3.20		.04		1.50		11.95
Anderson[2] 1½ mi. SW	Neosho					.28	T.				.38	.05	.06			1.98		.45	2.47								1.87	.02			.91		8.47
Appleton City	Osage			.05								.06	.38		.05	.40		.17	.38	.32	2.13		.46				2.90				.75		8.10
Ava Ranger Station[2]	White																																....
Bolivar	Osage			.03	.20				.01			.10	.02			.05	1.19	.02	.02		.15	T.	T.				1.70				.60		4.09
Boonville[2] (A)	Missouri				.50	.03								.30		.51	.51			1.52	.41	.56	.70				.51		.35		.34		6.24
Boonville[2] (B)	do				.48	.07								.47		.44	.64			.05	1.75	.55	.63	.01			.48		.30		.34		6.21
Bradleyville[2]	White				.32				.21					1.26		.09		.18	.68	.35							.95	.36					4.40
Buffalo[2]	Osage				.04	.21								.59	.33	.05		.30	.06		T.		T.				1.23				.95		8.76
Butler	do			.02						T.		.20	.32			1.12		.25	.26	.21	3.00		.78			T.	2.55		.11		.71		9.53
Camdenton	do				.28			.20			.28		1.18							3.80	.11		.28				1.37				.84		8 34
Caplinger Mills	do			.09	.10							.56	.43			.56	.05	1.35	.25	T.	.72	.17	.17	.17			1.70				.75		7.07
Carthage	Neosho			.39	.10				.10		1.01	.38	.41			.30	1.22	.10	2.21								4.28				.56		11.06
Cassville[2]	White				.15	T.			.28			.85	.26	.03		1.29	.04	.89	T.	1.37				.02			2.54	.06	.93		.23	T.	8.94
Chadwick[2]	do				.62	.11	.27		.34				.20	1.96		.22	.03	.07	.37	.30				.07			1.30	.46			.20	T.	6.52
Clinton[3]	Osage			T.	.03							.65	.87			.20		.14	.19	.99	1.62		.17			2.43	.05	.22		T.	1.16		8.72
Concordia[2]	Missouri												.98	T.		.05				1.20	1.03		.52			2.08							5.86
Crocker	Osage			T.	.50			T.			1.27		.50	T.		.37	T.	.10		.25			.21	.04			1.05				.25		4.54
Eldon	Missouri				.19				.55				.21	.05			.02			.58	1.50	.16	.14				1.77				.45		5.62
Eldorado Springs	Osage			.12	.12							.53	1.83	.05		.43	.37	1.16	.52		1.44		.30				2.48				.32		9.67
Elijah[2]	White				.85		.10		.50					.30					.78									.80					3.33
Forsyth[2]	do				.40				.10					.60		.10		.40	1.35	.40							.70	.20					4.25
Galena[2]	do				.36	.15			.33			.51	.50	.30	.17	.25	.05	.34	.20	.34				.02			1.50	.32	.03		.14	T.	5.51
Granby[2]	do				.64	.06						.24	.63			.92		.03	.55	.29							2.80	.48			1.66	.10	8.40
Hailey	do																																....
Harrisonville[2]	Osage				.08							.25	.27	.01		.50		.06	.01	1.10	1.85	1.46	1.05	.02			3.87	.01	.74		.68		11.96
Jefferson City[2] (A)	Missouri				.08	.13	.01		T.			.74		.12			.06				1.10	.11	.60	.14	T.		1.95				.28	T.	5.32
Jefferson City[2] (B)	do				.05	.18	T.		.01			.62		.15	T.	T.	T.				.88	.08	.33	.22			1.71				.35	T.	4.58
Joplin Airport[3]	Neosho			.43	T.			T.				.39	.32		T.	.29	.73	.09	1.95				.01				2.90			T.	.71		7.82
Kansas City University	Missouri			T.						.37	.24	T.	1.06		.36	.58	.71	.05		1.12	1.40		.91				1.48	T.		T.	.07		8.35
Lakeside[2, 5]	Osage				.05	.11			.02				T.	.47	.16	.02		.09	T.	T.	.42	T.	.20	T.			1.51				.60		3.65
Lamar[2]	Neosho				.34				.05			3.65	.80	.23		.15		.10	.84	.20			.17				3.04				.28		9.85

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Stations	Drainage basins	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Total
Southwestern Division—	*Concluded*																																
Lebanon[2]	Osage	....	....	....	.11	.29	.23	....	T.	....	....	....	....	.62	....	.35	....	.04	T.	.28	.30	....	T.	....	....	....	1.04	....	....	....	.40	....	3.66
Lexington[2]	Missouri	....	....	....	....	....	....	....	....	....	....	....	T	.25	.45	.14	....	T.	T.	1.14	.18	.67	2.18	....	....	....	1.98	T.	.03	....	.55	....	7.57
Lockwood[2]	Osage	....	....	....	.76	....	....	....	....	....	....	.36	.11	....	....	....	.17	.57	.87	.24	....	....	....	.10	....	....	1.65	....	....	....	.80	.03	5.66
Mansfield[2]	White	....	....	....	.17	.06	....	....	.19	....	....	....	....	.96	....	.34	....	....	.63	.16	....	....	....	....	....	....	1.12	.24	.69	....	T.	....	4.56
Marshall Airport[3]	Missouri	....	....	T.	.04	....	....	....	....	....	....	....	.17	....	.21	.29	....	T.	....	1.53	.80	....	.51	....	....	1.12	....	.10	....	.22	.15	....	5.14
Marshfield	White	....	....	.06	.78	.02	.82	....	.02	....	....	....	1.20	....	....	.18	.01	....	.17	T.	.07	....	....	....	....	....	1.83	....	....	....	.45	....	5.61
Monett[2]	Neosho	....	....	....	.32	.02	....	....	T.	....	....	.24	.30	....	....	.62	T.	.12	.50	....	....	....	....	T.	....	....	1.98	....	....	....	.37	.05	4.52
Mountain Grove[2]	Gasconade	....	....	....	.02	.08	.39	....	.09	....	....	....	....	.15	....	.10	....	.03	.28	.03	....	.04	....	....	....	....	1.19	....	....	....	....	....	2.40
Mount Vernon[2]	Neosho	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Neosho	....do	....	....	.87	.05	.01	....	....	.02	.06	....	.09	1.80	.02	....	.48	.34	.01	1.22	....	....	....	....	....	....	....	2.81	T.	....	....	1.11	....	8.89
Nevada	Osage	....	....	.26	.02	....	....	....	....	T.	T.	.78	2.87	.03	....	.32	.03	.30	.73	.09	.88	.02	.20	....	....	....	1.97	....	....	....	.20	....	8.70
Osceola[2]	....do	....	....	....	.59	.06	....	....	....	....	....	T.	.46	.29	....	.20	....	.11	.10	.18	3.58	.29	.30	....	....	....	1.48	....	T.	....	.94	....	8.58
Ozark[2]	White	....	....	....	.12	.15	1.54	....	.55	....	....	....	....	1.48	....	.22	....	....	.66	.34	....	....	....	....	....	....	1.32	.23	....	....	.43	.05	7.09
Ozark Beach[2]	....do	....	....	....	.76	....	....	....	.27	....	....	....	....	.48	.05	.12	....	.25	.60	.37	....	....	....	T.	....	....	.90	.05	....	....	....	....	3.85
Pierce City	Neosho	....	....	.47	.05	....	....	....	.18	....	....	.80	.05	T.	....	1.30	.15	....	.84	....	....	....	....	....	....	....	2.17	....	....	.78	....	....	6.79
Pineview Lookout[2]	White	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Pleasant Hill[2]	Osage	....	....	....	.06	....	....	....	....	....	....	.51	.77	.03	....	.30	....	.03	.01	.77	1.77	1.04	1.88	....	....	T.	1.65	.03	.33	....	.42	....	9.60
St. Thomas[2]. 2¼ mi SW	....do	....	....	....	....	.14	....	....	....	....	....	....	....	1.04	.09	.97	....	.17	....	T.	1.50	.18	.17	....	....	....	1.92	....	....	....	.25	....	6.43
Sedalia[2]	Missouri	....	....	....	.05	.12	....	....	....	....	....	....	.08	....	1.54	.11	....	.25	.06	.87	1.82	.64	.88	....	....	....	1.70	....	....	....	.24	....	8.36
Seligman[2]	Neosho	....	....	....	.40	....	....	....	....	....	....	.24	.49	T.	....	.56	.34	....	....	.99	....	....	....	....	....	....	.96	.17	....	....	.06	....	4.21
Seymour[2] ..... 4 mi. E	White	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Shell Knob[2]...3 mi. SE	....do	....	....	....	.25	T.	....	....	.03	....	....	.10	.64	.09	....	.74	....	.36	.33	.50	....	....	....	....	....	....	1.70	.22	....	....	.01	....	4.97
Springfield[1,5]. 4 mi. NW	Osage	....	....	.14	.27	T.	....	.18	....	....	T.	.13	.35	T.	....	.22	.05	T.	1.08	....	.31	....	.17	T.	....	....	1.56	....	....	....	.62	....	5.08
Stover[2]	Missouri	....	....	....	.41	.15	....	....	....	....	....	....	....	.17	T.	1.17	....	.09	.01	....	.99	.10	.42	.01	....	....	1.05	....	....	....	.64	....	5.21
Sugar Camp Lookout[2]	White	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Sweet Springs	Missouri	....	....	....	T.	....	....	....	....	....	....	....	.28	....	.18	.17	T.	T.	....	1.61	.80	....	1.30	....	....	....	1.55	.02	T.	....	.29	....	6.20
Tecumseh[2]. ..¼ mi. W	White	....	....	....	....	.32	....	....	.28	....	....	....	....	.29	....	.69	....	.04	.42	....	....	....	....	....	....	....	.40	.29	....	....	....	....	2.73
Topaz[2]	...do	....	....	....	....	.19	....	....	.67	....	....	....	....	.48	....	.09	....	.45	.60	....	....	....	....	....	....	....	.63	....	....	....	....	....	3.11
Vanzant[2]....3¾ mi. SE	....do	....	....	....	.07	.30	.15	....	.41	....	....	....	....	1.20	....	....	....	.31	.27	.03	....	....	....	....	....	....	.58	.17	....	....	....	....	3.49
Waco[2]	Spring	....	....	....	T.	....	....	T.	....	....	....	T.	.67	.09	....	....	....	....	1.49	.06	....	....	....	....	....	....	3.87	.02	....	....	.56	T.	6.76
Warrensburg	Missouri	....	....	....	....	....	....	....	....	....	....	....	.40	....	.03	.11	....	.22	.01	.45	2.09	....	.63	....	....	T.	3.42	T.	T.	....	.46	....	7.82
Warsaw[2].........(A)	Osage	....	....	....	.81	.32	....	....	....	....	....	....	.03	.67	.12	.02	.01	.13	.03	.05	1.84	.13	.46	T.	....	....	2.00	....	....	....	.85	....	7.47
Warsaw[2].........(B)	....do	....	....	....	1.33	.15	....	....	....	....	....	....	....	1.08	.20	.59	....	.12	.02	T.	1.88	.12	.30	T.	....	....	1.87	....	....	....	.83	....	8.49
Wasola[2]	White	....	....	....	.24	.03	....	....	.35	....	....	....	....	....	.90	.38	....	.41	.48	.05	....	....	....	....	....	....	.92	.16	....	....	....	....	3.92
Waverly[2]	Missouri	....	....	....	....	....	....	....	....	....	....	....	....	T.	....	.25	....	....	....	....	2.50	.50	1.37	....	....	....	1.37	....	.42	....	.40	....	6.81
Waynesville...1½ mi. E	Gasconade	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Wilderness Lookout[2]	White	....	....	....	1.80	....	....	....	....	....	....	.10	.11	.09	....	.20	....	.63	....	.54	....	....	....	....	....	....	....	1.48	....	....	....	....	4.95
Southeastern Division																																	
Advance[3].....¼ mile W	St. Francis	....	....	....	.21	2.01	.10	....	....	....	....	....	.70	.13	....	T.	....	....	T.	.02	....	....	.24	....	....	....	.10	....	....	....	T.	....	3.51
Alton.......10 miles SE	Black	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Annapolis[2].....7 mi. W	....do	....	....	....	....	.03	1.87	....	....	....	....	....	....	.57	.70	....	....	....	....	....	....	.20	....	.73	....	....	.57	.32	....	....	....	....	4.99
Arcadia[2]	St. Francis	....	....	....	....	.04	3.20	....	....	....	....	....	....	.40	.28	....	.28	....	....	....	.07	T.	....	.27	....	....	1.20	....	....	....	....	....	5.74
Belleview[2]	Meramec	....	....	....	....	.08	1.93	....	....	....	....	....	....	.08	T.	....	....	....	....	....	....	....	....	.59	....	....	1.41	T.	....	....	....	....	4.09
Bernie[2]	St. Francis	....	....	....	....	....	....	....	....	....	....	....	....	.75	.44	....	....	....	.14	....	....	....	....	.80	....	....	....	....	....	....	....	.42	2.55
Birch Tree[2] ...½ mile E	Black	....	....	....	....	.72	.15	1.20	.10	....	....	....	....	.15	....	....	....	.40	.74	....	....	....	....	....	....	....	.92	.10	....	....	....	....	4.48
Black...... 9 miles NW	....do	....	....	....	.35	....	1.60	....	....	....	....	....	....	....	....	....	....	....	....	T.	....	....	....	....	....	....	1.31	....	....	....	....	....	3.26
Bloomfield[2]	St. Francis	....	....	....	.18	....	.61	....	....	....	....	....	.02	.04	1.30	....	.03	....	....	....	....	....	....	2.67	....	....	....	....	....	....	....	.11	4.96
Bunker[2]... 4 miles NW	Black	....	....	....	....	.65	.50	....	....	....	....	....	....	....	....	....	....	....	....	.05	.15	.20	....	.05	....	....	....	1.05	....	....	....	....	2.65
Campbell	St. Francis	....	....	....	....	T.	....	....	....	....	....	....	.25	.26	....	.45	....	....	.50	....	....	....	.28	.27	....	....	....	....	....	....	....	....	2.01
Cape Girardeau....(A)	Mississippi	....	....	....	.41	.11	.07	....	....	....	....	....	.09	.03	....	T.	.28	....	.03	.08	....	....	.38	....	....	....	.52	....	....	....	T.	....	2.00
Cape Girardeau[2]...(B)	....do	....	....	....	....	.28	.10	....	....	....	....	....	....	.18	....	....	.41	....	....	.03	.05	....	....	....	....	....	.65	T.	....	....	....	....	1.70
Caruthersville[2]	....do	T.	....	....	....	....	....	....	....	....	....	....	T.	2.57	....	T.	....	.17	.03	T.	....	....	.85	....	....	T.	.09	....	....	....	....	....	3.71
Centerville(1)[2]	Black	....	....	....	....	.31	1.07	....	....	....	....	....	....	....	....	....	....	....	.04	....	.19	....	....	....	....	....	1.11	....	....	....	....	....	2.72
Centerville(2)[2]	....do	....	....	....	....	.38	.90	....	....	....	T.	....	....	T.	T.	....	....	....	.07	....	.17	....	....	.10	....	....	.95	.02	....	....	....	....	2.59
Clearwater Dam[2]	....do	....	....	....	....	....	.35	.02	....	....	....	....	....	.02	....	....	.02	.09	....	....	.02	....	....	.52	....	....	.16	....	....	....	....	....	1.20
Cook Station[2]	Meramec	....	....	....	.12	.74	1.70	....	....	....	....	....	....	.44	.21	....	....	....	....	....	.21	....	....	....	....	....	1.72	....	....	....	....	....	5.14
Crane Mountain[2]	St. Francis	....	....	....	....	.05	1.98	....	....	....	....	....	....	....	.83	....	....	.02	....	.03	.40	....	....	.03	....	....	.73	....	....	....	....	....	4.07
Crystal City	Mississippi	....	....	....	.73	.40	....	....	....	....	....	....	T.	.03	....	T.	....	....	.46	1.14	.39	....	.02	....	....	....	3.20	....	.18	....	....	....	6.55
Cuba[2]	Meramec	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Deering[2]	St. Francis	....	....	....	....	....	....	....	....	....	....	....	....	4.68	....	....	.26	....	.29	....	....	....	....	1.69	....	....	....	....	....	....	....	....	6.92
De Soto	Mississippi	....	....	....	1.02	.43	....	....	....	....	....	.03	.27	.02	.02	....	....	.01	....	.74	2.00	.34	....	....	....	....	2.27	....	....	....	....	....	7.15
Dexter[2]	St. Francis	....	....	....	.06	....	T.	....	....	....	....	....	....	....	.55	....	.08	....	....	....	....	....	....	2.53	....	....	....	....	....	....	....	.07	3.29
Doniphan(1)	Black	....	....	....	....	....	.06	....	....	....	....	....	.03	.14	....	....	.04	....	.67	....	....	....	.51	.05	....	....	....	....	....	....	....	....	1.50
Doniphan(2)[2]	....do	....	....	....	....	.03	.07	....	....	....	....	....	....	....	.13	....	....	....	.40	....	....	....	....	.38	....	....	....	....	....	....	....	....	1.01
East End[2]	Meramec	....	....	....	....	.81	2.67	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.60	....	....	....	....	1.30	....	....	....	....	....	5.38
Ellington[2]	Black	....	....	....	....	.10	.60	.50	....	....	....	....	....	.03	.20	....	....	....	....	....	....	....	....	.10	....	....	.56	.34	....	....	....	....	2.43
Ellsinore	....do	....	....	....	....	....	.65	....	....	....	....	....	....	.42	....	....	....	....	....	....	....	....	.30	....	....	....	.21	....	....	....	.30	....	1.88
Farmington[2]	St. Francis	....	....	....	....	.11	1.63	....	....	....	....	....	....	.03	.19	T.	T.	.16	....	....	.23	T.	....	.01	....	....	1.75	.02	....	....	....	.15	4.33
Fisk[2]	....do	....	....	....	T.	....	T	....	....	....	T.	....	T.	.70	.13	....	T.	T.	T.	....	....	....	....	.71	....	....	....	....	....	....	....	....	1.54
Fredericktown[2]	St. Francis	....	....	....	....	1.03	2.35	....	....	....	.48	....	....	.05	T.	....	.52	....	T.	....	.16	T.	....	.52	....	....	.55	....	....	....	....	....	5.66
Fremont[3]	Black	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Gerald	Meramec	....	....	....	.99	....	.01	....	....	....	.69	....	.41	....	....	.02	....	....	....	.91	2.92	.04	.03	.07	....	....	4.32	....	....	....	.05	....	10.46
Greenville[2] .. 1 mi. SW	St. Francis	....	....	....	....	.01	.60	.52	....	....	....	....	....	.20	....	....	.99	....	....	....	.08	....	....	.92	....	....	.05	....	....	....	....	.14	3.51
Hermann[2]	Missouri	....	....	....	....	.93	.15	....	....	....	....	.05	....	.08	....	.05	.18	....	.08	....	1.35	.08	1.45	.08	....	....	....	....	....	....	....	....	4.48
High Lookout	Black	....	....	....	.48	....	.37	.30	....	....	....	....	.69	.20	....	.02	.24	.08	.05	....	....	....	.24	....	....	....	.23	....	....	....	....	....	2.90
Jackson	Mississippi	....	....	....	.06	.23	.21	....	....	....	....	....	.07	.05	.19	.04	.22	....	....	.63	.03	....	.07	....	....	....	.50	....	....	....	.08	....	2.38
Jerome[2]	Gasconade	....	....	....	....	.20	....	.40	....	....	T.	....	.85	.40	....	T.	....	.04	.02	.25	....	....	T.	....	....	....	.70	....	....	....	.12	....	2.98
Koshkonong[2]	Black	....	....	....	....	.77	.05	....	.38	....	....	....	....	.37	....	.31	....	.05	.17	....	....	....	....	....	....	....	....	.02	....	....	....	....	2.12
Leeper[2]	....do	....	....	....	T.	.01	.19	.36	....	....	....	....	....	.01	....	....	.45	.47	....	T.	....	....	....	2.33	....	....	.07	....	....	....	....	....	3.89
Licking[2]	Gasconade	....	....	....	....	.43	2.16	....	....	....	....	.20	....	....	....	....	....	....	....	....	....	....	....	....	....	....	2.13	....	....	....	....	....	4.92
Macedonia Lookout[2]	Black	....	....	....	....	....	.05	.20	....	....	....	....	....	.05	.03	....	....	....	.93	....	....	....	....	.03	....	....	.18	....	....	....	....	T.	1.47
Marble Hill	Mississippi	....	....	....	....	.07	.45	....	....	....	.20	....	....	.50	....	.12	....	....	....	.08	....	....	.28	....	....	....	.77	....	....	....	....	.29	2.76
Morehouse	....do	....	....	....	....	....	....	....	....	....	....	....	.09	1.61	....	.01	....	....	....	....	....	....	1.82	.06	....	....	.26	....	....	....	....	....	3.85
Moselle[2]	Meramec	....	....	....	....	1.02	.36	....	....	....	....	.14	....	.14	.57	.20	T.	....	....	....	2.20	....	.15	T.	....	....	2.82	....	....	....	....	T.	7.60
New Madrid[2]	Mississippi	....	....	....	....	....	....	....	....	....	T.	....	....	.06	T	....	.11	....	....	....	....	....	....	2.03	....	....	.04	....	....	.42	....	.08	2.74
Oates Tower[2]	Black	....	....	....	....	.36	1.07	....	....	....	....	....	....	.03	.02	....	....	....	....	....	.27	....	....	.09	....	....	.74	.02	....	....	....	T.	2.60
Owensville[2]	Gasconade	....	....	....	....	1.13	.04	....	....	....	....	2.89	....	.38	1.50	.14	....	....	....	.45	3.65	....	.08	....	....	....	4.49	....	....	....	....	....	14.75
Pacific[2]	Meramec	....	....	....	....	1.20	1.10	....	....	....	....	....	....	.57	.05	.07	.10	....	....	....	2.36	T.	.14	.26	....	....	2.20	....	....	....	....	....	8.05
Parma[2]	St. Francis	....	....	....	.09	....	....	....	....	....	....	....	....	.26	....	....	.24	....	.05	....	....	....	....	.46	....	....	....	....	....	....	....	.24	1.34
Perryville	Mississippi	....	....	....	.01	.39	.53	....	....	....	.10	....	....	....	....	1.17	.07	....	.43	.29	.02	T.	.26	....	....	....	1.83	....	....	....	....	....	5.10
Poplar Bluff[2]	Black	....	....	....	....	....	.05	....	....	....	....	....	....	.03	.23	....	.57	....	.04	....	....	....	....	.17	....	....	....	....	....	....	....	....	1.09
Puxico[2]	St. Francis	....	....	....	....	....	.22	....	....	....	....	....	....	.05	....	....	....	....	....	....	....	....	....	2.29	....	....	.05	....	....	....	....	....	2.61
Qulin[2]	....do	....	....	....	.24	....	....	....	....	....	....	....	....	.20	.05	....	1.26	....	2.30	....	....	....	....	.15	....	....	....	....	....	....	....	.64	4.84
Reynolds[2]	Black	....	....	....	....	.55	.83	....	....	....	....	....	....	....	....	....	....	....	....	....	.37	....	....	.52	....	....	1.07	.04	....	....	....	....	3.38
Richwoods[3]	Meramec	....	....	....	....	.68	1.09	....	....	....	....	....	....	.09	....	.95	....	....	....	....	.44	1.94	....	....	....	....	2.20	....	....	....	....	....	7.39
Roby	Gasconade	....	....	T.	.21	....	.10	T.	....	....	.22	....	.02	....	....	.02	....	....	.05	.06	.04	....	....	....	....	....	1.85	....	....	....	T.	....	2.57
Rolla[2]	Meramec	....	....	....	....	.14	2.18	....	.56	....	....	.55	....	.62	.07	....	....	....	....	1.56	.04	....	....	.13	....	....	1.50	....	....	....	.03	....	7.38
Round Spring[2]	Black	....	....	....	....	.67	1.01	....	....	....	....	....	....	....	....	....	.09	....	....	....	.62	....	....	....	....	....	1.26	....	....	....	....	....	3.65
St. Louis:																																	
City Office[1,5]	Mississippi	....	....	....	.52	.82	....	....	....	....	.08	....	T.	.25	....	.03	T.	T.	....	1.12	.76	.04	.15	....	....	2.88	.62	....	T.	....	.03	....	7.30
Airport[3,5]	Missouri	....	....	....	.75	4.68	....	....	....	....	.03	.03	.22	.93	....	.23	....	....	T.	1.72	.18	.03	09	....	....	3.35	.43	T.	....	....	.02	....	12.69
St. Louis Univ.[1,5]	Mississippi	....	....	....	.60	.90	....	....	....	....	T.	T.	....	.25	....	.14	....	T.	....	1.18	1.14	.06	.12	....	....	2.81	.51	....	....	....	.01	....	7.72
Washington Univ.[2]	....do	....	....	....	....	1.05	2.53	....	....	....	....	....	.14	.98	.70	....	.24	....	....	....	1.34	1.08	.14	....	....	....	3.46	....	....	....	....	.04	11.70
Salem[2]	Meramec	....	....	....	.03	1.03	3.48	....	....	....	....	....	....	.03	.25	T.	....	....	.03	....	T.	.07	....	T.	....	....	1.45	.02	....	....	....	....	6.39

Continued on next page

Daily Precipitation for July 1948—Continued from preceding page

Stations	Drainage-basins	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Total
Southeastern Division — Concluded																																	
Sikeston[3]	Mississippi	....	....	....	....	.33	.32	....	....	....	T.	....	....	1.05	.31	....	T.	....	T.	....	....	....	....	1.32	....	....	.35	T.	....	....	....	T.	3.68
Siloam Sprgs Lookout[2]	White	....	....	....	....	.51	....	....	.56	....	....	....	....	2.38	....	....	....	....	.85	.17	....	....	....	....	....	....	.55	.21	....	....	....	....	5.23
Steelville[2] ...2½ mi. NE	Meramec	....	....	....	T.	.60	1.05	....	....	....	....	T.	....	.26	.08	....	....	T.	....	....	.79	....	....	....	....	....	1.59	....	....	....	....	....	4.37
Sullivan[2]	...do	....	....	....	T.	.76	.54	....	....	....	....	.40	....	.12	1.37	....	T.	.02	T.	.01	1.55	.25	.06	.07	....	....	1.60	....	....	....	....	....	6.75
Summersville[2]	Black	....	....	....	....	.61	1.60	T.	.55	....	....	....	....	.15	.18	.05	....	.06	.25	.05	....	....	....	.35	....	....	1.15	.10	....	....	....	....	5.10
Union[2] ....1½ mi. SE	Meramec	....	....	....	....	.83	.47	....	....	....	....	....	T.	.14	.06	.13	.08	....	....	....	2.51	....	.11	.03	....	....	4.54	....	....	....	....	T.	8.90
Valley Park[2]	...do	....	....	....	....	.41	2.00	....	....	....	....	....	T.	T.	.42	T.	.05	....	....	....	2.44	.67	.06	T.	....	....	1.83	....	....	....	....	....	7.88
Van Buren[2]	Black	....	....	....	....	....	.19	....	.13	....	....	....	....	....	....	....	....	.28	....	....	....	....	....	.18	....	....	.06	....	....	....	....	....	0.84
Vichy[3] .....2 miles NW	Meramec	....	....	.02	.43	....	T.	....	....	....	.26	....	1.72	.75	.12	.02	....	....	....	1.71	.04	.08	.02	....	....	.43	.31	....	....	....	.07	....	5.98
Wappapello Dam[3]	St. Francis	....	....	....	....	....	.07	....	....	....	....	....	....	T.	.05	....	.05	.03	....	....	T.	....	....	1.96	....	....	.05	....	....	....	....	T.	2.21
Webster Groves	Mississippi	....	....	....	.92	.04	2.43	....	....	....	.10	T.	....	.37	....	.12	....	....	....	1.31	1.89	.09	.03	T.	....	....	1.96	....	T.	....	T.	....	9.26
Weingarten	...do	....	....	....	....	2.00	....	....	....	....	....	....	....	.10	.36	....	....	.30	....	.45	.75	....	....	....	....	....	2.30	....	....	....	....	....	6.26
West Plains[3]	Black	....	....	....	.48	....	.98	.02	....	....	....	....	.53	....	....	.03	.22	.03	.01	.02	....	....	T.	....	....	T.	.28	T.	....	....	T.	....	2.60
Williamsville[2]	...do	....	....	....	....	.24	.12	....	....	....	....	....	....	1.25	....	....	.06	.14	....	....	....	....	....	1.74	....	....	.14	....	....	....	....	T.	3.69
Willow Springs[2] 500 ft E	White	....	....	....	....	.73	.22	.75	.82	....	....	....	....	.32	....	.30	....	.43	.33	.07	....	....	....	....	....	....	.11	.42	....	....	....	....	4.50
Zalma[2]	Mississippi	....	....	....	....	.05	.28	.06	....	....	....	....	....	.44	....	....	.40	....	....	....	....	....	....	.35	....	....	.10	....	....	....	....	....	1.68
Cairo, Ill.[1], [5]	...do	....	....	....	....	T.	....	....	....	.01	....	T.	.85	.01	....	.38	....	T.	....	.20	.02	....	.98	....	....	....	.24	...	.30	....	.78	....	3.77

Except as otherwise indicated, amounts are for 24 hours ending late in afternoon. [1] Midnight to midnight. [2] Measured in the morning; for the preceding 24 hours. [3] Data for 24 hours ending 12:30 A. M. (C. S. T.) of following day. [5] Recording gage. T. Trace or 0.005 inch or less. * Included in next measurement. // Wind-shield on gage. Italics data interpolated. § Partly interpolated. (A) Record from cooperative station gage. (B) Record from river station gage. (C) Airport. ‡ Received too late to be included in means and extremes.

Daily Evaporation (inches), Mean Temperature (F°), and Wind Movement (miles) for July 1948

(See precipitation data in daily precipitation table)

Station	Data	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Monthly
Columbia (Univ. of Mo. Hort. Exp. Sta. 9 mi. WNW.)	Evaporation	.269	.257	.190	.102	.120	.223	.245	.284	.248	.221	.216	.122	.138	.133	.121	.187	.179	.151	.257	.044	.192	.213	.135	.172	.181	.213	.247	.162	164	.161	.133	5.680
	Mean temperature	70	74	72	72	78	82	83	80	76	79	78	79	78	76	77	78	78	78	74	75	80	78	70	66	76	78	78	78	82	80	70	76.6
	Wind movement	29	25	9	23	26	3	11	1	2	3	2	1	1	0	4	4	17	4	9	9	39	22	28	18	42	4	4	16	39	11	10	416
Lakeside (Osage Dam)	Evaporation	.300	.270	.218	.140	.038	.232	.271	.285	.276	.288	.257	.288	.088	.189	.220	.244	.210	.166	.136	.109	.123	.155	.187	.255	.221	.294	.220	.188	.240	.285	.229	6.622
	Mean temperature	72	74	73	73	80	83	84	80	76	78	78	79	80	80	79	78	80	78	77	79	81	78	70	70	76	79	80	82	83	78	73	77.8
	Wind movement	42	37	26	24	21	35	27	25	21	26	18	40	20	15	11	41	31	25	17	34	27	41	36	38	28	54	18	12	15	43	44	892
St. Louis (Washington University)	Evaporation	.265	.256	.265	.228	....	....	.250	.239	.235	.219	.079	.133	.233	.160	.163	.070	.257	.156	.199	.159	.119	.139	.242	.066	.162	....	.160	.214	.210	.184	.150	5.770
	Mean temperature	69	73	75	78	76	76	84	81	77	82	77	80	80	78	80	78	83	82	80	74	81	81	78	66	72	79	79	83	84	83	74	78.0
	Wind movement	20	10	11	11	8	13	8	4	6	3	4	6	3	9	19	3	11	12	6	6	6	21	18	25	7	32	8	8	8	17	5	328

Observations taken at 8:00 a. m. except at 5:00 p. m. at Columbia. For Lakeside and St. Louis (Washington University) descriptions see April 1932 and August 1938 reports, respectively. * Included in next measurement.

Missouri Storms, July 1948

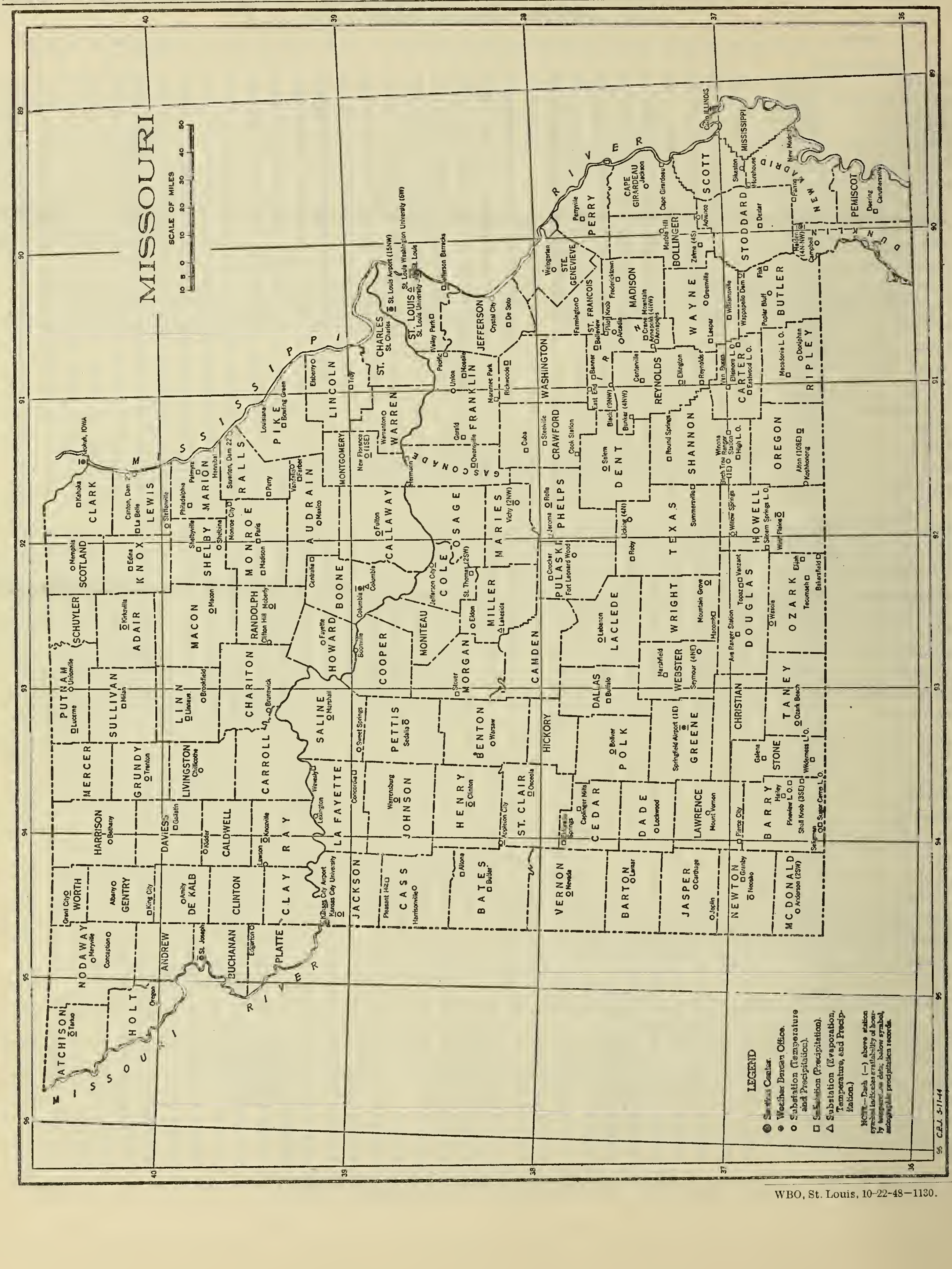
Place	Date	Time	Width of path	Loss of life	Value of property destroyed	Character of storm	Remarks
St. Louis	19	10:22 a.m.	....	0	$2,000	Thunderstorm and high wind	Trees and wires were blown down and four persons were slightly injured in the city. Lightning struck four buildings and a street car, resulting in $2,000 damages. Storm was accompanied by a heavy, driving rain that cut visibility to one-sixteenth mile. The storm came from the northwest.
St. Louis City and St. Louis County	22	4:15 a.m.	....	0	Minor	Thunderstorm and high wind	Minor damage to trees and wires at various places in the city and county; one plate glass window broken. Storm came from the west-northwest.
Elsberry, Lincoln County	25	7:00 p.m.	....	0	Minor	High wind	Minor damage to buildings, utility lines and automobiles caused by falling tree limbs. Minor damage to crops in low-land areas in the vicinity by standing water.
Cassville	26	2:30 a.m.	....	0	....	High wind	Trees blown down in western part of Barry County and limbs torn from trees in other sections of county. Heavy rain accompanied the storm.
Linn County	27	Between 1:00 p.m. and 2:00 p.m.	1 to 3 miles	0	$110,000	Heavy hail and high wind	Storm originated near Browning, Sullivan County and moved southeastward into Linn County. Only minor damage was done to crops in Sullivan County but in Linn County, particularly in the New Garden area, the hail damage was severe. Some corn fields were completely destroyed, others heavily damaged, while still others suffered only little or no damage. Hailstones ranged from ½ inch to 4½ inches in diameter. Communication and power lines were broken by the storm. Damage to crops estimated at $60,000 and to property $50,000. The bulk of the damage was caused by the hail.

Time used on this tabulation is Central Time, unless otherwise indicated.

Daily Temperatures for July 1948

Stations		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Northern Division																																	
Brunswick /	Maximum..	80	90	85	86	91	96	97	95	91	96	96	90	89	86	87	87	89	88	83	80	91	88	77	81	91	88	93	92	93	81	84	88.4
	Minimum ..	60	60	65	63	71	71	73	71	69	68	68	70	69	69	69	70	68	69	70	68	70	70	58	57	57	70	70	67	67	72	62	67.1
Chillicothe 2 mi ESE(C)	Maximum..	85	91	85	85	91	96	96	95	90	90	91	88	94	88	88	88	89	88	85	83	94	89	79	83	91	89	90	92	89	82	86	88.7
	Minimum ..	59	66	61	69	70	71	71	72	69	66	68	67	64	68	67	66	63	65	67	68	70	59	55	57	64	66	67	65	70	62	55	65.4
Columbia	Maximum..	84	88	85	79	90	96	96	92	89	92	90	88	89	87	86	89	88	85	84	81	90	87	76	81	93	88	90	92	92	81	81	87.4
	Minimum ..	60	66	65	68	71	72	74	74	69	72	71	72	70	70	71	70	71	72	68	78	76	67	58	56	67	70	69	70	76	68	60	69.1
Fayette	Maximum..	83	89	86	79	90	96	97	93	93	92	90	88	89	86	87	88	90	88	83	81	88	87	76	80	91	89	88	91	92	88	84	87.8
	Minimum ..	56	62	59	68	68	72	70	70	70	66	68	72	67	67	70	69	67	68	66	69	74	70	55	53	66	70	70	66	74	71	59	66.8
Grant City	Maximum..	88	89	85	84	94	96	96	96	89	85	90	86	92	86	87	84	88	86	91	85	93	88	84	86	92	92	92	92	84	86	85	88.7
	Minimum ..	60	64	62	62	68	70	70	70	72	68	66	67	63	65	64	63	62	60	66	68	72	61	51	60	58	62	64	65	70	57	55	64.0
Hannibal	Maximum..	83	89	86	79	84	95	89	89	88	89	90	89	84	81	80	87	88	84	80	80	91	86	73	80	88	88	88	89	91	82	81	85.5
	Minimum ..	57	65	64	69	66	69	71	70	66	70	70	70	70	68	67	69	69	67	68	69	73	63	56	57	65	70	69	68	77	66	59	67.0
Kansas City Airport..	Maximum..	90	92	83	89	95	98	98	97	88	81	89	85	90	87	88	83	88	88	84	86	93	88	79	86	95	90	92	93	92	84	88	89.0
	Minimum ..	70	70	69	72	73	73	75	76	70	72	72	71	69	70	70	71	69	72	67	68	69	65	58	65	74	73	72	70	74	68	63	70.0
Kirksville	Maximum..	82	88	84	82	88	98	96	94	90	94	88	90	90	82	85	87	88	89	87	82	93	90	77	79	89	89	86	89	90	85	86	87.6
	Minimum ..	57	65	61	69	69	73	72	70	66	66	67	69	68	66	65	67	65	61	66	68	71	66	54	55	62	63	68	65	72	62	55	65.3
Lathrop	Maximum..	91	89	83	86	93	96	95	95	87	85	89	89	90	88	88	83	90	86	85	83	91	88	78	82	91	88	92	91	89	82	85	88.0
	Minimum ..	63	65	70	68	70	68	69	72	71	69	68	69	66	68	68	64	64	65	66	68	75	70	53	57	70	67	69	67	70	61	57	66.7
Louisiana	Maximum..	82	89	87	83	83	97	91	90	91	87	91	92	85	86	82	90	89	85	80	80	91	88	84	80	89	91	90	92	91	87	83	87.3
	Minimum ..	50	63	56	68	65	67	72	67	61	66	66	69	69	69	70	67	67	66	65	68	74	67	58	51	63	70	66	61	71	72	58	65.3
Macon /	Maximum..	84	89	85	83	90	97	96	93	88	93	89	90	87	81	85	87	90	86	83	81	92	88	76	80	90	90	88	90	93	82	86	87.5
	Minimum ..	57	65	60	63	68	69	70	69	65	65	62	69	67	68	65	67	67	62	66	67	70	69	54	56	63	67	67	69	71	64	56	65.1
Maryville	Maximum..	87	89	85	83	91	94	94	91	82	82	85	84	88	84	86	83	84	83	87	82	93	85	77	81	89	87	89	89	87	80	84	86.0
	Minimum ..	62	65	60	64	68	67	67	68	71	68	67	67	64	64	63	59	62	64	68	65	68	66	50	55	67	63	67	67	63	55	54	63.8
Mexico /	Maximum..	85	90	88	79	87	95	93	92	91	92	92	92	88	85	86	90	89	89	84	83	91	87	75	82	92	90	92	95	94	83	83	88.2
	Minimum ..	56	63	72	..	69	78	75	70	65	70	68	72	69	67	71	69	69	69	67	67	71	69	56	53	64	70	68	67	74	72	57	67.6
Moberly /.... 3½ mi. NE	Maximum..	82	90	..	..	89	96	96	..	..	..	92	88	88	84	87	87	..	88	86	..	90	..	86	87	90	87	90	..	..	84	82	^{j}88.0
	Minimum ..	59	66	68	..	..	68	74	72	..	..	..	70	68	67	68	68	67	..	65	68	..	69	..	55	67	69	69	66	..	..	68	^{j}67.0
Oregon	Maximum..	89	88	85	85	93	95	95	92	84	83	84	83	90	87	88	83	88	84	85	85	93	85	79	83	88	89	90	91	85	82	87	87.0
	Minimum ..	64	68	66	66	74	71	70	72	72	66	70	69	71	66	68	64	65	67	66	69	71	58	53	60	72	67	72	69	61	66	61	66.9
St. Charles	Maximum..	85	91	90	84	85	98	95	91	93	89	93	94	93	91	88	93	93	91	86	89	92	92	86	82	91	91	93	98	93	88	86	90.5
	Minimum ..	56	62	61	68	68	68	73	71	65	72	69	70	73	70	70	69	73	71	67	70	74	71	60	56	65	69	70	71	73	74	62	68.1
St. Joseph Airport	Maximum..	92	91	85	89	94	96	96	96	90	85	89	85	90	86	89	83	88	84	85	85	93	86	79	86	90	89	92	94	87	83	87	88.5
	Minimum ..	66	69	66	70	73	72	72	73	73	70	70	70	68	69	69	65	65	68	67	70	74	61	56	61	73	69	71	71	70	62	60	68.2
Trenton	Maximum..	..	89	85	85	84	97	96	95	92	91	89	87	92	83	88	86	89	86	86	83	86	85	80	83	90	90	91	93	..	83	87	88.0
	Minimum ..	..	65	62	69	71	74	72	73	71	69	70	71	66	69	67	68	65	64	69	70	72	70	55	57	65	69	66	68	..	61	55	67.0
Unionville /	Maximum..	82	88	86	85	92	98	97	95	89	91	86	90	90	81	81	87	89	84	88	86	94	84	78	81	89	90	89	89	89	84	86	87.7
	Minimum ..	55	63	58	65	68	70	70	70	66	63	63	65	65	63	62	63	61	57	65	65	68	67	52	51	68	58	60	62	67	56	54	62.6
Warrenton	Maximum..	81	87	86	82	85	95	93	88	89	89	90	88	86	88	86	91	89	87	86	84	90	87	84	78	90	88	91	89	91	88	84	87.4
	Minimum ..	51	62	57	66	67	69	73	68	59	70	65	67	70	67	69	66	69	68	65	68	72	69	57	50	63	68	66	69	72	69	57	65.4
Keokuk, Iowa	Maximum..	83	90	85	79	83	96	84	89	88	93	89	88	87	72	79	87	88	85	84	82	92	85	74	78	83	87	87	87	90	83	84	85.2
	Minimum ..	58	69	68	70	68	70	70	68	70	72	70	73	72	68	67	70	70	67	70	70	68	62	57	60	64	66	70	66	71	66	61	67.5
Southwestern Division																																	
Clinton	Maximum..	88	88	79	85	93	95	95	96	92	92	90	82	89	92	87	87	89	86	82	88	90	88	78	87	95	86	92	93	92	83	85	88.5
	Minimum ..	60	63	62	70	68	68	72	65	70	66	71	71	69	69	67	69	67	70	69	69	76	68	58	57	71	66	69	70	73	66	61	67.4
Eldon	Maximum..	83	85	82	84	89	93	95	90	87	90	89	84	88	88	86	89	87	85	85	86	89	86	85	83	95	92	90	92	90	86	82	87.6
	Minimum ..	59	63	61	64	67	70	72	69	66	68	67	70	67	68	71	70	69	71	67	68	74	70	57	55	71	66	69	69	73	71	61	67.2
Harrisonville /	Maximum..	87	88	80	87	91	94	95	93	88	81	85	83	88	81	85	88	89	86	82	86	88	88	78	88	91	87	92	90	90	83	86	87.0
	Minimum ..	61	64	64	68	69	68	71	68	72	70	68	69	69	70	67	67	66	66	67	67	66	69	55	59	63	67	69	67	74	70	60	66.8
Jefferson City	Maximum..	83	86	84	78	89	94	96	89	88	90	88	87	88	88	85	89	88	86	83	84	89	86	84	81	93	88	90	93	91	84	82	87.2
	Minimum ..	54	61	58	68	66	69	69	70	64	66	66	70	68	67	71	66	68	68	65	67	72	69	56	51	67	67	65	68	73	69	59	65.7
Joplin Airport	Maximum..	91	90	80	87	92	92	96	96	92	93	86	86	83	94	92	88	91	91	93	94	92	88	81	94	95	92	95	96	93	83	85	90.5
	Minimum ..	63	63	66	70	72	64	70	67	70	70	71	70	71	70	66	67	71	66	72	73	78	72	65	63	73	65	70	69	76	63	62	68.6
Lamar /	Maximum..	86	86	77	82	90	91	92	91	89	90	84	84	86	90	84	85	85	87	89	89	88	87	78	88	92	87	92	91	89	82	82	86.9
	Minimum ..	61	61	62	65	66	64	66	64	69	68	67	67	68	68	65	66	67	65	65	69	69	69	60	60	62	64	64	68	68	69	59	65.3
Lebanon /	Maximum..	85	85	82	78	89	91	94	91	89	89	89	85	89	91	85	88	86	85	88	89	89	85	78	87	92	90	92	93	92	84	81	87.5
	Minimum ..	56	61	62	65	66	67	68	65	62	64	66	69	68	66	69	67	68	67	67	68	70	71	59	55	58	65	65	66	69	70	58	65.1
Lexington /	Maximum..	89	91	87	90	93	96	98	97	91	89	91	90	92	90	87	87	90	87	87	86	91	88	80	86	91	90	93	94	93	80	86	89.7
	Minimum ..	64	68	66	70	71	72	74	73	71	69	70	72	68	70	70	69	69	70	58	67	68	70	57	59	68	70	71	68	75	67	61	68.2
Marshall Airport	Maximum..	87	90	89	84	90	94	97	94	89	93	92	89	90	87	86	87	89	86	85	83	89	87	78	84	93	87	91	92	93	81	83	88.4
	Minimum ..	57	62	59	69	68	68	69	69	66	63	68	71	67	67	70	67	66	68	66	68	75	63	54	54	65	69	66	64	72	61	56	65.4
Mountain Grove	Maximum..	80	80	86	74	89	91	94	87	87	85	85	83	88	90	89	90	88	83	86	90	93	90	84	82	90	88	90	90	91	86	82	86.8
	Minimum ..	56	58	64	68	68	67	70	66	62	69	68	70	67	68	69	66	66	66	68	68	72	74	68	57	66	65	68	65	71	69	59	66.4
Neosho	Maximum..	88	87	80	84	90	90	95	94	92	90	87	85	89	95	90	88	92	91	92	92	91	91	86	92	94	91	94	94	93	88	84	90.0
	Minimum ..	56	60	64	69	67	63	67	66	66	67	68	69	69	66	67	63	69	66	69	73	76	73	66	65	70	65	69	67	74	71	58	67.0
Nevada	Maximum..	88	88	79	85	92	94	96	95	93	88	86	85	90	93	88	83	90	90	90	91	88	88	86	90	93	90	95	94	92	85	87	89.4
	Minimum ..	61	62	64	70	68	64	69	65	71	71	69	68	69	68	66	67	66	67	70	68	74	70	59	59	73	66	70	68	75	71	59	67.3
Sedalia	Maximum..	85	86	84	82	90	94	95	93	90	92	90	86	89	90	85	84	86	86	86	86	87	86	83	82	92	89	90	92	92	90	81	87.8
	Minimum ..	62	65	64	69	69	70	73	70	70	68	70	72	68	69	71	69	69	71	66	68	77	70	56	57	71	69	70	69	76	71	58	68.3
Springfield....4 mi. NW	Maximum..	83	82	76	77	90	89	92	89	88	88	85	82	84	91	83	87	88	86	88	90	90	84	77	87	92	86	91	89	89	79	80	85.9
	Minimum ..	58	60	64	68	67	66	69	64	69	66	70	71	68	68	67	66	69	65	68	68	72	71	62	61	71	64	70	67	71	65	60	66.6
Warrensburg	Maximum..	87	88	84	86	91	94	96	95	90	90	90	83	90	89	87	87	90	85	85	84	88	88	83	85	92	89	92	93	92	85	85	88.5
	Minimum ..	63	66	67	70	70	69	73	70	70	67	70	69	69	71	70	70	67	71	68	67	76	70	57	58	72	67	71	68	76	69	62	68.5
Southeastern Division																																	
Arcadia /	Maximum..	86	88	85	82	81	87	82	81	80	81	89	86	88	90	90	92	90	89	83	93	93	94	83	83	90	90	92	93	93	88	85	87.3
	Minimum ..	50	50	57	64	68	66	70	65	58	69	64	65	67	68	68	65	67	71	68	70	72	76	65	52	53	64	66	65	69	72	60	64.6
Birch Tree.... ½ mile E	Maximum..	82	86	88	83	91	90	95	87	90	89	90	86	91	92	90	91	91	85	86	91	92	89	83	84	90	90	93	92	92	89	84	88.8
	Minimum ..	51	48	58	67	67	67	70	66	59	68	64	68	69	68	70	62	65	69	67	69	71	69	65	58	63	68	63	63	69	69	66	65.0
Caruthersville	Maximum..	86	87	93	95	93	91	96	89	91	90	90	91	88	92	91	92	91	88	91	92	93	81	80	86	87	90	91	92	95	88	88	89.9
	Minimum ..	65	62	67	75	74	73	74	72	72	72	69	72	72	75	72	72	71	70	73	76	71	71	64	63	75	74	75	75	75	73	70	71.4
Crystal City	Maximum..	84	88	89	90	90	95	94	90	91	89	91	92	88	90	89	94	93	91	90	93	92	91	83	82	90	89	92	95	92	90	84	90.0
	Minimum ..	52	55	57	68	62	68	72	68	60	71	68	67	71	68	71	67	72	67	70	72	76	78	62	52	62	69	67	70	70	74	60	66.6
Doniphan	Maximum..	82	82	92	88	94	89	96	89	91	90	92	92	91	92	95	94	96	90	91	94	97	92	94	85	92	90	84	95	97	95	83	91.1
	Minimum ..	53	50	58	69	70	70	70	70	61	70	64	68	70	69	70	65	67	68	71	69	74	73	69	57	63	71	65	67	70	70	61	66.5
Farmington	Maximum..	82	86	88	88	89	92	90	86	89	87	89	88	89	90	85	91	89	89	83	92	93	87	78	82	90	88	92	92	91	86	81	87.8
	Minimum ..	49	49	53	65	65	63	70	63	57	65	62	64	65	66	65	63	64	64	64	68	71	72	59	48	57	64	63	65	67	69	58	62.5
Jackson	Maximum..	86	89	92	91	92	95	95	92	93	92	93	92	92	92	92	95	96	94	88	94	95	92	84	86	89	88	94	93	94	94	90	91.7
	Minimum ..	53	52	57	66	70	69	70	65	63	71	68	67	71	69	69	67	69	69	70	72	76	77	69	56	58	69	65	73	75	73	62	67.1
Poplar Bluff	Maximum..	85	89	93	91	95	91	96	92	93	93	95	90	92	95	91	96	97	92	90	94	96	93	86	85	89	92	95	94	92	96	87	92.1
	Minimum ..	57	54	69	70	71	70	72	69	65	71	66	69	71	70	72	68	67	69	72	70	75	75	70	59	61	72	66	69	71	71	65	68.3
Rolla /	Maximum..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
	Minimum ..	55	59	60	68	64	66	72	66	62	68	65	68	66	63	69	65	68	68	65	66	74	70	56	54	65	66	67	67	72	69	59	65.3
St. Louis	Maximum..	85	89	88	85	84	94	93	90	91	86	91	91	86	86	87	91	90	88	83	87	92	84	74	80	90	89	92	98	92	86	81	87.7
	Minimum ..	63	66	69	68	70	70	74	72	71	73	74	75	74	71	72	72	76	75	66	72	75	72	62	64	66	70	73	76	74	72	66	70.7
Salem /	Maximum..	81	84	85	87	81	89	90	95	88	90	88	90	88	86	90	87	90	87	86	87	92	94	86	79	86	91	87	92	93	92	84	87.9
	Minimum ..	52	55	60	66	67	67	70	67	60	66	65	68	69	70	70	65	69	66	67	69	72	75	63	53	61	69	68	65	68	71	58	65.5
Sikeston /	Maximum..	82	89	82	95	91	91	93	89	93	90	92	92	87	90	92	94	95	93	90	95	97	93	80	83	87	85	92	91	93	94	87	90.2
	Minimum ..	50	55	62	71	69	70	78	68	67	71	68	71	71	70	72	70	70	71	71	73	76	76	70	58	60	70	70	74	75	74	65	68.7
Union ....1½ mi. SE	Maximum..	81	85	87	80	85	94	91	87	89	89	89	89	88	90	87	91	89	87	85	88	92	87	83	78	90	87	91	93	90	85	82	87.4
	Minimum ..	52	57	57	67	65	69	73	69	60	69	65	66	70	66	69	66	69	68	65	69	72	70	59	52	60	68	65	70	70	70	59	65.4
West Plains	Maximum..	82	83	87	77	90	88	94	87	89	87	88	83	89	90	90	91	91	84	87	92	93	90	84	84	92	88	95	93	93	88	83	88.1
	Minimum ..	55	51	62	69	67	66	69	65	60	69	65	69	71	69	70	66	68	70	69	70	73	72	62	61	67	70	66	65	69	65	59	66.1
Cairo, Ill.	Maximum..	83	90	93	95	94	93	93	88	90	90	88	90	89	90	95	94	94	93	87	94	95	92	81	82	87	84	92	91	93	93	85	90.3
	Minimum ..	62	62	66	73	72	72	75	70	71	73	71	72	72	73	74	74	74	73	72	75	78	73	66	64	65	71	73	73	76	76	68	71.3

/ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs. ^{a}, ^{b}, ^{c}, etc., number of days missing, for example, ^{b} indicates two days missing. Italics data interpolated. § Partly interpolated. (C) Airport.



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U. S. DEPARTMENT OF COMMERCE
CHARLES SAWYER, Secretary
WEATHER BUREAU
F. W. REICHELDERFER, Chief

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ACKNOWLEDGMENTS

In addition to the climatological data from some 6,000 Weather Bureau and cooperative weather stations, this bulletin series contains records from Hydroclimatic Network Stations which were formerly reproduced in the Hydrologic Bulletin Series. The Hydroclimatic Network is a nationwide net of rain gages -- mostly of the recording type which produce continuous records of precipitation. It was established in 1939 at the request of the Corps of Engineers, Department of the Army, to supplement existing precipitation stations in order to provide records of rainfall intensity which were essential to the planning of flood control and related works by the Corps of Engineers. This Network, now numbering about 2,000 recording, and 1,000 non-recording rain gages, has been maintained by the Weather Bureau through working funds transferred annually to the Weather Bureau by the Corps of Engineers. These transfers averaged about $250,000 per year between 1940 and 1944, and nearly $375,000 since that date. For the years 1940-42, the Department of Agriculture transferred about $100,000 per year to provide data required in its work, and since 1947 the Bureau of Reclamation has transferred about $25,000 per year to meet the increasing needs of their program in the Western States.

Previous to the introduction of this bulletin series, data from Hydroclimatic Network stations were presented in bulletins (Hydrologic Bulletins) which were issued monthly for each of 8 drainage areas embracing the entire United States, but since the Network was established to meet the internal requirements of the Federal agencies referred to above, no provision was made for public dissemination of the data, distribution being limited to cooperating agencies and to certain public repositories. A list of locations where reference copies of the Hydrologic Bulletin Series are available for inspection may be obtained upon application to Chief, U.S. Weather Bureau, Washington 25, D.C.

Many other records published in this bulletin have been made available through the cooperation of various public offices, private agencies, and individuals as listed in the Station Index.

MISSOURI - AUGUST, 1948

H. F. Wahlgren, Section Director - Saint Louis

GENERAL SUMMARY

August was a rather dry month with nearly normal temperature average, for the State as a whole. It was a favorable month for all growing crops and for outdoor and field work, generally.

Temperatures were mostly moderate and no unusually high or low readings were recorded anywhere in the State. It was the coolest August since 1946 and averaged 7.2° cooler than August a year ago. The 22d and the 23d were the warmest and the 5th and 6th the coolest days during the month, as a rule. The first half of the month averaged cooler than normal while the latter half averaged warmer than normal. Average temperatures for the month for each of the three divisions of the State, with departures from normal were: Northern, 75.9°, -0.4°; Southwestern, 76.2°, -0.7°; Southeastern, 76.6°, -0.3°; for the State, 76.2°, -0.4°.

Precipitation was irregularly distributed over the State during August, being heavier over the Northern and Southwestern Divisions than in the Southeastern Division. However, the average was below normal in all divisions, viz: Northern, 2.51 inches, -1.22 inches; Southwestern, 2.28 inches, -1.64 inches; Southeastern, 1.51 inches, -2.28 inches; for the State, 2.14 inches, -1.67 inches. The greatest monthly totals for each division occurred locally at Pleasant Hill, in the Southwestern, where 6.52 inches occurred; at Doniphan #2, in the Southeastern, where 5.14 inches fell; at Fayette, in the Northern, where 4.80 inches was received. Least monthly amounts were 0.23 inch at Leeper, 0.63 inch at Waco, and 0.68 inch at Troy. The frequency of the month's rainfall was practically normal, occurring on a total of 7 days, for the State as a whole.

The only floods in any of the larger streams of the State were those that were prevailing at the close of July and extended over into early August as follows: In the Missouri River, at Waverly, continued from July to August 1st; in the Osage River, in the reach from Osceola to Lakeside, continued from July to August 7th.

Heavy fogs occurred locally on the 6th, 8th, 9th, 10th, 11th, 14th, 15th, 16th, 17th, 22d, 28th and 30th. Light hail was reported on the 11th at Granby, on the 29th, five miles southwest of Jackson, and on the 30th near Browning. Moderate hail fell on the 12th at Sylvan Beach, St. Louis County; no damage. Heavy hail occurred at Pleasant Hill on the 2d, at 4:30 p.m., over an area of one square mile and was accompanied by high wind. Automobile tops, trees and flowers were damaged and some corn was blown down. Hailstones were 5/16" to 3/8" in diameter. Crop damage estimated at $1,000 and property damage estimated at $150. The storm came from the NE. A windstorm struck Sylvan Beach Airport, St. Louis County, at 12:10 p.m. on the 12th, resulting in property damage estimated at $11,200. One hanger was blown down and another damaged and seven airplanes were also damaged. The storm came from the west and hailstones 1/2 inch in diameter accompanied it. The storm path was 1/2 mile wide. One man was struck and killed by lightning while plowing in a field near Wheaton, Barry County, on the 25th; time unknown.

All growing crops continued to make very good progress during August and they were in good to excellent condition at the close. Harvesting and threshing of wheat and oats was completed during the month, but there was some loss of these crops due to shattered grain and sprouting in the shock. Some small grain on low ground was not harvested. However, the wheat crop was expected to be one of the largest of record. The corn crop matured nicely the latter half of the month and the bulk of that crop was out of danger of any frost that might occur by the normal date of occurrence of killing frost. Some early corn was matured enough to be used for feeding by the end of the month. Hay harvest continued during the month but was interrupted, locally, during the first half of the month, with some damage due to showers. Late hay crops, particularly lespedeza and the soy bean crop were very good and these were expected to be near record crops. Pastures held up well during the month but declined some during the latter half, when more rain was needed rather generally. Some fall plowing was underway during the last half of the month and a small acreage of fall grains had been sown by the close. Truck crops and gardens produced well and were in good condition during August but were needing more rain the latter half over much of the State. Cotton continued in excellent condition but bolls were slow in opening due to cool nights. Some picking had begun by the end of August. Harvest of late peaches was completed but the crop was worm infested and of rather poor quality, particularly in the southeastern portion of the State. A large crop of cantaloups and watermelons was marketed during the month. On the whole August was the most favorable month of the current growing season for harvesting and cultivating of crops, haying operations, and field work in general.- MRW

TEMPERATURE

The monthly mean for the State, 105 stations reporting, was 76.2°, or 0.4° cooler than the 61-year August average. The highest monthly mean was 79.3° at Kansas City Airport and Caruthersville and the lowest was 72.8° at Licking. The highest reported was 104° at Greenville and Marble Hill on the 22d and at Brookfield on the 23d, and the lowest was 46° at Elsberry on the 6th.

PRECIPITATION

The monthly mean for the State, based on reports from 106 stations, was 2.14 inches, or 1.67 inches less than the 61-year August average. The greatest monthly amount was 6.52 inches at Pleasant Hill and the least was 0.23 inch at Leeper. The greatest amount in an observational day was 4.60 inches at Pleasant Hill on the 3d. The average number of days with 0.01 inch, or more, was 7.

PRESSURE, WIND, HUMIDITY, SUNSHINE, DEGREE DAYS

STATIONS	SEA LEVEL PRESSURE EXTREMES—INCHES				WIND				RELATIVE HUMIDITY AVERAGES				SUNSHINE	
	HIGHEST	DATE	LOWEST	DATE	AVERAGE SPEED M.P.H.	MAXIMUM SPEED M.P.H.	DIRECTION	DATE	1:30A EST	7:30A EST	1:30P EST	7:30P EST	AVERAGE PERCENT	DEGREE DAYS 65° BASE
Columbia	30.24	5	29.81	17	5.1	19	W	27	87	91	60	65	68	0
Kansas City Airport	30.27	17	29.81	17	8.1	25	NE	2+	78	84	55	46	64	0
St. Joseph Airport	30.27	5	29.80	17	6.6	29	SE	12	83	89	66	64	59	1
St. Louis	30.20	4	29.81	17	7.4	31	S	28	78	79	50	58	81	0
Springfield	30.23	28	29.88	11	7.7	26	NE	2	81	95	63	67	76	1

TABLE 1
COMPARATIVE DATA

YEAR	TEMPERATURE			PRECIPITATION		
	MEAN	HIGHEST	LOWEST	AVERAGE	AVERAGE SNOWFALL	DAYS WITH .01 OR MORE
1888	74.0	110	45	7.03	0	11
1889	73.5	101	52	1.69	0	14
1890	73.3	106	47	5.13	0	9
1891	73.2	102	38	5.29	0	8
1892	74.3	102	44	2.65	0	6
1893	72.8	100	40	1.99	0	4
1894	77.0	111	39	1.64	0	5
1895	75.3	104	46	4.02	0	8
1896	76.6	108	41	3.13	0	6
1897	74.1	108	41	2.37	0	6
1898	75.8	103	44	3.13	0	5
1899	78.8	107	49	3.13	0	7
1900	80.3	105	52	3.55	0	6
1901	78.4	109	47	2.05	0	5
1902	75.0	103	47	6.06	0	10
1903	74.5	102	43	5.00	0	10
1904	73.7	100	43	5.40	0	8
1905	76.4	99	48	4.68	0	8
1906	76.6	101	40	4.70	0	11
1907	77.3	109	47	3.89	0	9
1908	76.4	102	46	3.46	0	8
1909	79.5	110	40	0.60	0	2
1910	74.7	103	40	2.92	0	6
1911	75.4	109	41	4.33	0	7
1912	76.2	104	41	4.04	0	9
1913	82.8	110	41	1.09	0	3
1914	78.0	106	49	4.25	0	9
1915	69.8	98	37	8.19	0	12
1916	79.2	107	41	4.09	0	7
1917	73.3	104	38	4.69	0	9
1918	81.8	111	45	3.57	0	8
1919	75.7	106	44	4.33	0	8
1920	73.1	102	43	4.69	0	9

YEAR	TEMPERATURE			PRECIPITATION		
	MEAN	HIGHEST	LOWEST	AVERAGE	AVERAGE SNOWFALL	DAYS WITH .01 OR MORE
1921	76.8	109	48	5.39	0	9
1922	77.5	107	46	2.44	0	6
1923	77.3	108	42	3.81	0	8
1924	77.2	106	48	4.11	0	7
1925	76.5	107	45	3.34	0	6
1926	77.5	106	50	5.65	0	10
1927	71.1	97	39	5.09	0	9
1928	76.4	99	45	5.48	0	9
1929	76.0	105	43	2.58	0	6
1930	78.5	114	47	1.99	0	6
1931	74.9	106	44	4.97	0	9
1932	77.2	106	46	5.70	0	9
1933	75.4	103	48	3.82	0	9
1934	80.6	115	41	4.01	0	9
1935	77.7	110	45	2.20	0	6
1936	84.6	116	43	0.84	0	4
1937	80.5	105	51	2.05	0	5
1938	81.1	108	53	2.62	0	6
1939	75.4	106	45	4.80	0	9
1940	75.6	107	45	5.78	0	12
1941	79.2	106	49	3.15	0	8
1942	75.1	106	41	4.24	0	9
1943	79.8	110	44	2.46	0	6
1944	75.9	107	41	6.09	0	10
1945	76.8	103	45	2.08	0	5
1946	74.0	111	37	5.64	0	9
1947	83.4	109	56	1.81	0	5
1948	76.2	104	46	2.14	0	6
PERIOD	76.6	116	37	3.79	0	8

CLIMATOLOGICAL DATA

able 2

Station	Temperature								Precipitation									
							No. of Days						Snow, Sleet, Hail			No. of Days		
	Average	Departure from Normal	Highest	Date	Lowest	Date	Max. 90° or above	Min. 32° or below	Total	Departure from Normal	Greatest Day	Date	Total	Max. Depth on Ground	Date	.01 or more	.25 or more	1.00 or more
NORTHERN DIVISION																		
Albany	75.7		98	22 +	47	5	14		2.29	- 1.31	.94	2	0			11	3	
Amity	75.8		97	22 +	50	5	14		2.51	- 1.69	1.45	3	0			7	2	1
Bethany	75.3	0.3	100	22 +	47	5	12		2.73	- 1.09	.67	2	0			9	5	
Brookfield	78.0		104	24	51	5	18		.89		.35	28	0			5	1	
Brunswick	76.6	2.4	100	23	53	6 +	14		2.31	- 1.63	1.10	28	0			6	4	1
Canton Lock & Dam 2	76.2	- 0.1	96	23 +	50	5 +	15		2.29	- .87	1.53	30	0			6	2	1
Carrollton	76.4		100	23	50	6	16		1.12		.60	2	0			6	1	
Chillicothe AP CAA	75.9	0.4	99	23	53	5 +	13		2.42	- 1.54	.79	2	0			11	3	
Columbia WBO	75.9	- 0.4	97	22 +	53	5	11		4.21	.61	2.13	26	0			8	3	2
Columbia Univ of Mo	74.9		97	23	50	5	12		3.51		2.00	27	0			6	2	1
Conception	76.5	1.8	97	22	53	5	16		2.19	- 1.45	.84	2	0			7	3	
Edgerton	76.1	1.0	100	23	49	5	16		3.06	- .98	1.65	3	0			5	3	1
Elsberry	74.0	- 2.5	97	22	46	6	14		1.49	- 1.77	.50	4	0			5	3	
Fayette	75.7	- 0.2	98	23	52	6	14		4.80	1.24	3.60	27	0			6	3	1
Fulton	74.8	- 1.6	97	23 +	51	6	12		3.57	- .08	2.55	27	0			5	3	1
Grant City	75.1	0.2	98	22 +	52	5	13		3.75	- .19	.95	3	0			10	5	
Hannibal Waterworks	75.6	0.6	97	23	53	5	9		3.98	.64	1.12	3	0			7	5	2
Kansas City AP WBAS	79.3		100	22	57	5	15		2.71		1.27	27	0			7	2	1
Kidder	75.7	0.3	99	23	50	5	12		2.13	- 1.83	1.36	3	0			7	2	1
Kirksville	75.4M	1.4	99	22	51	5 †	14		.88	- 3.24	.27	30	0			8	1	
Kirksville AP CAA	75.1		98	22 +	52	5 +	11		1.35		.61	26	0			8	1	
Lathrop 3 SW	76.3		98	22 +	51	5	14		1.68		1.05	2	0			6	2	1
Louisana Starks Nursery	75.1	0.2	97	23	48	6	15		1.53	- 3.01	.64	27	0			6	3	
Macon	75.8	- 0.3	100	23 +	50	5 +	15		3.10	- .71	1.36	27	0			8	3	2
Maryville	74.2	0.4	96	23	50	5	11		2.13	- 1.85	.84	2	0			6	3	
Memphis	75.1	- 0.1	102	24	50	5 +	15		1.15	- 2.82	.24	27+	0			6		
Mexico	76.4	0.4	100	23	50	5	15		1.63	- 2.22	.60	4	0			4	4	
Moberly AP 4 NE	76.3M	0.6	100	23 +	50	5	12		3.16	- .65	1.52	4	0			6	3	1
New Florence AP 1 SE	74.6		96	22 +	51	5	7		1.72		.84	27	0			6	3	
Oregon	75.8	0.6	98	18	53	5	12		3.78	- .02	1.96	3	0			7	4	1
Polo	76.1		97	23 +	53	5	14		2.90		1.50	12	0			5	2	2
Saint Charles	78.2	1.4	100	23	54	5 +	17		1.35	- 2.89	.66	4	0			7	2	
Saint Joseph AP WBAS	77.6	1.1	100	22	53	5	15		4.36	.53	3.02	2	0			8	3	1
Salisbury	77.3		101	22	51	5	17		2.12		1.24	27	0			6	2	1
Saverton Lock Dam	75.1	- 0.9	97	21	51	5	12		4.77	.31	2.55	14	0			7	4	1
Shelbina	75.5		100	23	50	5	15		3.52	- .20	1.69	13	0			6	4	1
Steffenville	75.4	- 1.1	98	22 +	49	5	15		2.54	- 1.50	.87	30	0			8	3	
Tarkio AP CAA	75.3	0.1	99	22	47	5	15		2.03	- 1.87	.88	10	0			6	2	
Trenton	77.0	1.8	102	23	52	5	15		2.53	- 1.35	1.20	3	0			8	4	1
Unionville	74.8	0.0	102	24	49	5	15		2.80	- 1.48	1.10	14	0			10	3	1
Vandalia									1.53		1.20	27	0			3	2	1
Warrenton	74.8	- 1.7	98	23	48	6	14		.84	- 2.83	.58	4	0			4	1	
DIVISION	75.9	0.2							2.51	- 1.18								
SOUTHWESTERN DIVISION																		
Anderson 2 SW	73.4	- 4.3	94	22 +	51	5 +	7		6.36	2.24	1.25	12	0			10	8	3
Appleton City	77.4	- 0.4	98	22	52	6	18		1.93	- 2.03	.95	13	0			6	3	
Bolivar	76.1	- 0.8	98	22	54	6	10		1.88	- 1.98	.78	27	0			9	3	
Boonville Waterwork	75.1	- 1.1	96	24	53	5	10		2.84	- 1.71	1.46	28	0			6	3	1
Butler	75.6M		97	18	53	5 +	10		1.76		1.08	13	0			8	2	1
Camdenton	77.8		99	23	56	6	14		1.31		.45	3	0			4	3	
Caplinger Mills	75.7		98	22	51	6	12		2.03	- 2.52	.61	28	0			10	4	
Carthage	76.3		97	22	54	6	11		3.09		.90	28	0			10	5	
Clinton	76.8	- 0.8	99	22 +	53	6	15		1.87	- 1.78	.64	26	0			8	3	
Eldon	76.4	0.0	98	20	52	6	12		.91	- 2.75	.34	3	0			6	2	
Harrisonville	76.9	1.0	98	23	55	5	14		1.83	- 2.35	.85	3	0			6	2	
Jeff City Radio KWO	74.5	- 2.2	98	22 +	50	5 +	11		2.42	- 1.41	1.19	27	0			5	3	1
Joplin AP CAA	77.7	0.4	97	20 +	56	6	17		1.58	- 2.39	.38	12+	0			11	2	
Kansas City Univ of	78.2	- 0.4	100	23	49	5	16		2.36	- 2.13	1.12	2	0			7	3	1
Lakeside	76.4	- 2.7	99	23	54	5 +	13		1.62	- 1.55	.67	4	0			6	2	
Lamar	74.6	- 3.1	94	23	54	6 +	8		2.69	- 1.60	1.55	4	0			7	3	1
Lebanon	75.1	- 1.0	99	23	51	5 +	14		.69	- 3.80	.19	8	0			8		
Lexington	78.4	2.2	100	23	55	5	14		1.44	- 2.08	.68	3	0			7	3	
Lockwood	76.6	- 0.6	98	22	53	6	15		2.45	- 2.25	.90	4	0			7	2	
Marshall AP CAA	75.6	- 0.4	99	22	50	5	13		2.66	- 1.24	.83	12	0			8	4	
Marshfield	74.3		98	23	52	5	6		2.30		.63	3	0			8	4	
Monett	75.6		94	24	55	5 +	7		3.29		.72	28	0			12	5	
Mountain Grove	75.5	0.0	98	22	50	5	12		2.10	- 2.24	1.26	28	0			5	2	1
Neosho	76.5	- 0.6	96	21 +	52	5	15		4.18	- .19	1.00	11	0			13	5	1
Nevada	77.4	0.3	98	22	54	6	17		.97	- 2.80	.23	3	0			9		
Ozark Beach	78.4		101	23	52	6	22		3.64	- .69	1.80	14	0			9	3	1
Sedalia	76.3	- 0.2	97	22	52	5	12		.75	- 4.43	.33	3	0			3	2	
Seligman	74.3M	- 1.9	92	23	56	6	2		5.84	1.84	1.78	29	0			8	7	2
Springfield AP WBAS	74.9	- 0.1	95	22 +	56	5 +	9		2.04	- 2.05	1.03	28	0			9	2	1
Sweet Springs	76.0		100	22	52	5	15		2.25		.67	4	0			7	5	
Warrensburg Central T. C.	77.8	0.7	99	22 +	57	5 +	13		.79	- 3.18	.35	27	0			5	1	
Warsaw No 1	77.5	- 0.1	98	22	54	5	15		1.31	- 3.31	.40	27	0			7	2	
Wasola	76.4		103	22	56	6	15		2.11		.90	15	0			5	2	
DIVISION	76.2	- 0.7							2.28	- 1.86								

See reference notes following Station Index.

Station	Temperature								Precipitation									
							No. of Days						Snow, Sleet, Hail			No. of Days		
	Average	Departure from Normal	Highest	Date	Lowest	Date	Max. 90° or above	Min. 32° or below	Total	Departure from Normal	Greatest Day	Date	Total	Max. Depth on Ground	Date	.01 or more	.25 or more	1.00 or more
SOUTHEASTERN DIVISION																		
Advance AP	76.3	- 1.0	100	22 +	48	6	20		.27	- 3.54	.24	29	0			3		
Arcadia	74.7	0.4	102	23	50	6 +	19		1.47	- 2.90	1.00	4	0			4	2	1
Birch Tree	75.1	- 1.0	97	22	52	5 +	14		3.47	- 1.29	1.38	15	0			5	3	2
Black 9 NW	76.2M	1.7	99	22	52	5 +	14		.63	- 3.61	.60	4	0			3	1	
Campbell	77.6M	0.4	98	24	53	7	19		1.72	- 4.26	.85	14	0			4	2	
Cape Girardeau Mo. State	78.0		99	24	55	5	18		.85	- 3.05	.35	14	0			6	1	
Caruthersville	79.3	- 1.0	97	23	61	5 +	16		1.38	- 2.31	.57	15	0			4	3	
Clearwater Dam Site	77.1		100	22 +	54	6	16		.67		.36	4	0			4	2	
Crystal City	76.4	- 1.8	101	22	50	6	17		.92	- 1.51	.40	4	0			6	2	
Doniphan	77.4	- 0.2	97	22	49	6	23		4.42	.18	3.20	14	0			8	3	1
Farmington	75.4	0.0	99	22	50	6	15		1.77	- 2.53	.90	4	0			6	2	
Greensville 1 SW	77.2	0.5	104	22	49	6	20		.78	- 3.50	.39	30	0			6	1	
Jackson	78.5	2.4	103	22	53	6	24		2.32	- 1.76	1.29	28	0			6	3	1
Koshkonong	78.0	0.1	99	22	56	5 +	18		1.25	- 2.91	.40	15	0			6	3	
Licking 4 N	72.8M	- 3.9	97	23	49	5	7		1.25	- 1.09	.60	4	0			3	2	
Marble Hill	76.0	- 1.0	104	22	49	5	22		.86	- 3.26	.30	4	0			4	2	
Poplar Bluff	78.7	0.7	102	21	55	6	24		.88	- 3.69	.47	10	0			4	2	
Rolla School of Mines	73.3M	- 2.9	97	26	52	5 +	7		1.78	- 2.66	.85	27	0			3	2	
Saint Louis AP WBAS	77.9	1.5	100	23	55	6	13		2.08	- .94	1.07	12	0			7	3	1
Saint Louis WBO	79.0	1.5	99	23	59	5	10		.84	- 2.15	.56	4	0			4	1	
Saint Louis Univ	78.5	0.7	97	23 +	61	4 +	10		.76	- 3.18	.50	4	0			5	1	
Saint Louis Wash Univ	77.3	- 0.9	100	24	54	6	17		.88	- 4.24	.66	4	0			4	1	
Salem	74.3	- 1.6	98	24	50	5 +	12		1.96	- 2.61	.88	4	0			5	3	
Sikeston	78.6	1.0	102	24	53	5 +	21		1.06	- 2.74	.54	30	0			7	2	
Union 2 SE	75.2	- 2.8	100	23	48	6	14		1.52	- 3.18	.69	4	0			7	3	
Vichy AP CAA 2 NW	75.6		97	22	54	5	9		2.00		.85	4	0			5	3	
Wappapello Dam	78.6	- 0.3	99	23 +	57	5	19		.35	- 3.90	.22	10	0			3		
Webster Groves	76.3		101	23	52	6	16		.86		.57	4	0			3	2	
Weingarten	76.3		100	22	52	6	16		2.61		1.76	28	0			2	2	1
West Plains	75.4	- 1.6	98	22	52	6	17		1.49	- 1.24	1.00	14	0			7	1	1
Willow Springs	73.9		93	22	52	6	4		3.59	- .49	1.70	14	0			7	3	1
DIVISION	76.6	- 0.4							1.51	- 2.53								
STATE	76.2	- 0.4							2.14	- 1.67								

See reference notes following Station Index

TABLE 3

DAILY PRECIPITATION

MISSOURI
AUGUST 1948

STATION	DAY OF MONTH																															TOTAL
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Advance AP z				.02			T		T	T			T	T														.01	.24			.27
Albany		.94	.22	.02		.05	.29			.35	.02	.09	.08		.15					T							.08					2.29
Alton 6 ENE r			.10									.86	.10	2.40	.30										.16	.02	.14			.16		4.24
Altona			1.35				.07					.18	.73			T											.65	.80				.78
Amity			1.45			T	.13			.63		.01	.10	T	T			T			.05						T	.14				2.51
Amsterdam r							.04						.63		.20												.30					1.17
Anderson 2 SW								T	.38	.28	1.09	1.25	.03	1.12	.64											T	.67	.66	.24			6.36
Annapolis				.24						.06			.04	.48	.01											.03	T	T		.05		.91
Appleton City z		T	.50	.02								.05	.95		T	T										.12	.29					1.93
Arcadia				1.00			T			.27			.10													T	.10					1.47
Ashton r	.20		.65			.02																				.40	.06			.80		2.13
Auxvasse			.07	.38		T	.02					T	.44													1.54	1.34	.11		T		3.90
Bedford r		.47	.05			.09	.22																									.83
Belleview z				.83				T					T							T							T	T				.83
Bernie															.50																	.50
Bethany		.67	.32	T		.02	.43			.10	.15						T			T						.13	.60	T		.31		2.73
Birch Tree				.15									1.34	.20	1.38												T	.40				3.47
Black 9 NW				.60			.01						.02															T				.63
Bloomfield											.07	T																.07	.15	.26		.55
Bolivar z			.08				.40				.02	.07	.03	T	.10											.33	.78	.07				1.88
Boonville			.54	1.04			.23						.10								T						T	1.09				3.00
Boonville Waterworks			.36	.87			T					.11	.02														.02	1.46				2.84
Bowling Green				.75			.02							.24													.18	.47				1.66
Bradleyville							.09						.08	.23	.91												.13	.16				1.60
Brookfield			.21	.09		.08																						.35		.16		.89
Browning	.01	.26	T	T		T	.16			T	T		.12								T					.82	.30			.95	T	2.62
Brunswick			.30				.26	.12					.35								T						.13	1.10				2.31
Buffalo			.98		T		.11	.05			T	.05															.37	.24	.32			2.12
Bunker												T		.21												.05	.15					.41
Butler		.03	T				.03					.03	1.08		.08	.02										.08	.41				T	1.76
Camdenton			.45																							.36	.40	.10				1.31
Campbell										.19			.08	.85																.60		1.72
Canton Lock Dam 20	.01		T	.53			T																				.14	.03		1.53	.05	2.29
Cap Au Gris L and D 25r				.27								.65	.15													1.24						2.31
Cape Girardeau Mo State				.21			.01			T	T		.20	.35					.05									.03	T			.85
Cape Girardeau				.18			T						.22	T	.35				.05											T	T	.80
Caplinger Mills			.04				.13				.07	.11	.28	.15											.07	.32	.25	.61				2.03
Carrollton		.60	.02				.14					.05									T					.09	.22					1.12
Carthage			.79				.10				.05	.20	.35	.27												.31	.02	.90	.10			3.09
Caruthersville										T	T			.09	.57											.38	T			.34		1.38
Cassville Ranger Sta z								.11		.29	.66	.50	.05	.75	.38												.77		1.22	.03		4.76
Centerville				.22				T			.01		.29	.43												T	.02	.35				1.32
Centerville Ranger Sta				.41						.15			.66	.25														.39				1.86
Centralia				.75																							.96	.18				1.89
Chadwick				.20			.15	T			.09	T		.06	3.65												.72	.23				5.10
Chillicothe 2 S			.97				.35			.02			.02														.03	.26		T	.71	2.36
Chillicothe AP CAA		.79	.03	T		.09	.16			.03		.72									.02					.05	.14			.01	.38	2.42
Clarksville L&D 24 //r				.48								.24														2.18						2.90
Clearwater Dam Site z				.36						.28	T															.02	.03	T				.67
Clifton City		.04		.54																								.16				.74
Clinton z		.19	.27	T			.12					.02	.23								T				.06	.64	.34					1.87
Columbia WBO z		T	.42	.21		T	.11					.04				.14					T					2.13	1.13			.03	T	4.21
Columbia Univ of Mo			.12	.98			.14					.20														.07	2.00			T		3.51
Conception		.84	.14			T	.24			.49		.36	.06							T						T	.06					2.19
Cook Station				.98			.09																	.06					.37			1.50
Crane Mountain				.58						.38			.33	.11														.38		.13		1.91
Crocker			.32	.10		T						T									T					T	1.44	T				1.86
Crystal City				.40			.04					.08															.11	.02	.27			.92
Deering										.08				.07	.52													.31		T	.88	1.86
De Soto			T	.45			.04					.15														.20		1.77				2.61
Dexter					.11					T					.08													.11		.39		.69
Doniphan				.03						.18			.24	3.20	.25												.17	.33		.02		4.42
Doniphan 2 W										.11			.26	1.75	2.70												.04		.13	.15		5.14
Dora r			.11										.05	.65														2.30				3.11
Downing r			.32								.09		.07													1.10	.21			.41		2.22
East End				.65			T																						.60			1.25
Edgerton			1.65			.03							.19							.30							T	.89				3.06
Edina			T	.26									.06	.19													.46	.14		1.00	T	2.11
Eldon			.34	.06			.07																			.14	.28	.02				.91
Eldorado Springs			T	.02			.06		T		.02	.10	.13	.08		.21					T					.39	.15	T				1.16
Elijah													.49	.66														.28				1.43
Ellington z				.15				.02				.20		.10																		.47
Ellsinore							T			T			T	.27																.09		.36
Elsberry				.50			T						.28	.20													.39	.12		T		1.49
Eminence r			.17	.03								.23															.05	.25				.73
Farmington z				.90	.17			T		.04	.03															.60		.03				1.77
Fayette		.05	.52	.23			.13					.27		T							T					T	3.60					4.80
Fisk				T			T			.20	T			T	.29															.47		.96
Forsyth z				.03	.03					.04	.05	.10	.05	.75	.60											.15	.70	.10				2.60
Fredericktown				.51																												.51
Fulton z				.61			.02							.03								T					2.55	.36			T	3.57
Galena				.23			.02			.12	.13	.13		.20	.70											.02	.28	.59	.17			2.59
Gallatin			1.63				.18			.35			.05															.34				2.55
Gerald			.22	.15			.09							.52												.67	.62					2.27
Granby								.35		T	.20	.20		.25	.68												.97		.56	.29		3.50
Grant City z		.72	.95	T		.18	.47			.24	.31	.48	.06		.10		T			T						T	.24	T				3.75
Greenville 1 SW				.14						.04	.01			T	.02													.18		.39		.78
Hamden r			.06	.46		.02	.05																				.26			.08		.93
Hannibal				1.57			T							.35													.85	.62		.05	T	3.44
Hannibal Waterworks			1.12	.61		.02							.34													1.03	.65			.21		3.98
Harris r		.42	.29			.20	.06			.04	.15		.04													.05	.10			.58		1.93
Harrisonville			.85									.09		.13		.10											.02	.64			T	1.83
Herman				1.25										.20													.18	.10				1.73
High Lookout			.12	.03					.03			.76		1.53	.37											T	.16					3.00
Hornersville r				.04					.05	.17			.07	.34											.05		.04		.10			.86
Houston r			1.00										.60	.05	.01											.08	.07					1.81
Jackson				.50						.09			T	.07														1.29	.25	.12		2.32
Jeff City Radio KWOS z	T			.56	T		.12										.05					T					1.19	.50	T			2.42
Jefferson City				.70			.11	.08									.02					T					1.32	.21				2.44
Jerome				2.00			.06														T					.43	.83					3.32

See reference notes following Station Index

TABLE 3 — Continued
DAILY PRECIPITATION

STATION	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	TOTAL
Jewett r					.45				.37	.25			.05																.02			1.1
Joplin AP CAA			.12				.07	.01	T		.06	.38	.38	.21	T											.10	.19	.04	.02			1.5
Kahoka	.11		.13	.41			T							.08													.60	.03		.42	.35	2.1
Kansas City AP WBAS z		.99	.21			T	T			.06			.09		.08						T					.01	1.27					2.7
KC Mo St John & Elmwd r		.89	.11												.14												.28					1.4
KC Mo 75th & Holmes r		1.65	.13										.08		.15												.82					2.8
KC Mo 37th & Raytn Rd r		1.01	1.10																								.25					2.3
Kansas City Univ of z		1.12	.44				T		T	.02			.10		.17						T					.01	.50					2.3
Kidder			1.36				.21			.27		T	.02			.08											.05	.14		T		2.1
King City	-	-	-	-	-	-	-	-	-	.96	.02	T	.19														.06					-
Kirksville			.08	.04			.09	T			.06		.07								.07						.20			.27		.8
Kirksville AP CAA z		T	.09	.05		.10							.13		T						.07					.61	.20			.10		1.3
Koshkonong				.28						.27			.09	.18	.40												.03					1.2
LaBelle			T	.33							T																.61	.08		1.49		2.5
Lakeside z				.67			T	.15						.08			.64										.04	.04	T			1.6
Lamar				1.55								.10		.22	.30	.05											.25		.22			2.6
Lampe Forest Service				.08				.10		.09	.40	.28	.09	.70	.65												.87	.05	.74			4.0
Lampe 4 NNE r			.62				.09		.14		.20	.22	.11	.95												.52	.68		.05			3.5
Lathrop 3 SW		1.05	.05				.03					T	.17								.04						.34					1.6
Lebanon z				.03			T	.19			T	T		.17	.08										.04		.04	.05	.09			.6
Lecoma 3N r			.65	1.00			.09																				.02					1.7
Leeper				.07				T		.14				T	.01											.01	T	T				.2
Lexington			.68	.03			.01					T										T				.04	.36	.30			.02	1.4
Licking 4 N				.60																							.45	.20				1.2
Linneus z		.35	T				.16					T															.19			.15		.8
Livonia r		.02	.37			.05				.10	.27		.62								.02					.34	.15			.35		2.2
Lockwood z				.90			.03		T			.18		.19	.20													.20	.75			2.4
Louisiana Starks Nur				.35			.02						.26													.20	.64			.06		1.5
Louisiana				.34			T							.24													.77	.09	T	.05		1.4
Lucerne z			.56	.06			.11				.21			.29														.05	.58	.68		2.5
Macedonia Lookout				T						.09			.24		.06	1.30											.03			.09		1.8
Macon z	.01		T	.36			.04														.02						1.36	1.01		.18	.12	3.1
Madison				1.98																							.35	.23				2.5
Malden r										.01			.05	2.03											.10		.25		.67	.02		3.1
Mansfield				.23			.09	.30			T			2.15	.47												.20		.14			3.5
Marhle Hill				.30		.25							T															.12	.19			.8
Marshall AP CAA z		.35	.66	.14			.07					.83									T					.01	.54				.06	2.6
Marshfield			.63				.42	T	T		T	.04		.04	T								.37	T		.24	.18	.38	T			2.3
Martinsburg			T	.86			.02	T					T	.16													1.08	.61		T		2.7
Maryville		.84	T				.36			.12	.14	.61								T						.06	T					2.1
Maryville 6 NNW z		.77	.03			.25	.09			1.19	.37	.18	.40													.50	.29					4.0
McCredie r			.39	.31								.29	.12													.84	.46	.06				2.4
McCredie Exp Sta r			.31	.41			.02						.39													1.32	1.89					4.3
Memphis			.11	.22										.23													.24	.11		.24		1.1
Mercer 6 NW	.36	T	.35	.04				.20			.58	.04						.03			.02						.07	.05			2.43	4.1
Mexico				.60			T																				.42	.27			.34	1.6
Middletown r			.07	.11			.02					1.11														.10	.63	.02				2.0
Milan			.45	.09			.17				.05			.32													.80	.08		.82		2.7
Moberly AP 4 NE z				1.52																	.04						.12	.08		.70	.70	3.1
Monett						T			.10		.10	.12	.06	T	.24	.66	.05									.30	.55	.72	.30	.09		3.2
Monroe City				.79									.34													.82	.96			T		2.9
Mora r		1.23	1.00				.15						.10													.10	.15					2.7
Morehouse										.14			T	T														1.12		.84		2.1
Moselle				.60									.49													.30	.28					1.6
Mountain Grove z				.15				T						.41	.05												.23	1.26				2.1
Neosho			T	.02		T	.15	T	.05	.01	1.00	.45	.23	.73		.15									T	.12	.57	.50	.20			4.1
Nevada z			.23	T			.02		.02		.06	.15	.10	T			T				T					.20	.18	.01				.9
New Florence AP 1 SE z			.08	.31		T							.33													.15	.84	.01				1.7
New Madrid										T					.01															.83		.8
Oates Tower				.29			T			.02	T		.46	.22												T	.04	.63				1.6
Odessa		.25	.10			T					T	T			T	1.00									T	1.19	.40				.65	3.5
Oregon	T		1.96							.90		.08	.35					T			.03					T	.12	.34				3.7
Osceola z			1.52	.18			.08				.05	T		.85													1.47	.06				4.2
Owensville z				1.03																							.10	2.25		.10		3.4
Ozark			.37	.04								T	.05	.27	.35												.86	.53	.04			2.5
Ozark Beach				.06			T			.05		.15	.03	1.80	.53											.87	.08	.07				3.6
Pacific	T	T		.82			T						.95														1.07	.10				2.9
Palmyra				1.08			.04						.07													.57	.10	.44			.34	2.6
Paris				1.02										1.10													.57	.20		.02	.08	2.9
Parma											.04				1.67											.03		.83		.25		2.8
Pattonsburg r		1.05				.10	.05			.59																	.12			.18		2.0
Perry z				.63																						.05	1.25			.03		1.9
Perryville *				.55			T		.22			T																.26				1.0
Philadelphia				.53			.07						.13													.85	.21	.05		.76		2.6
Pierce City			.10				.09		.03		.06	.25	.16	.65	.02											.60	.55	2.00	.10			4.6
Pleasant Hill			4.60				T	.02				.85		.22		.13					T						.10	.60				6.5
Polo z			1.10									1.50	.10													.10					.10	2.9
Poplar Bluff				.02						.47	T			.05	.34															T		.8
Potosi r				1.10								.02														.02	.08				.02	1.2
Puxico				.05	T					.07	T			T															.18	.60		.9
Qulin				T						.28	T		.01	.22	.71											.02			T	.21		1.4
Reynolds				.28						.07				.25													.32	.07				.9
Richwoods z				.74			.01																				.29					1.0
Ridgeway r		.49	.41			.30	.12			.08	.45	.08			.63												.25			.21		3.0
Roby			.20	.02			.08					.01	.06	T							T		.35			T	.31					1.0
Rogersville r			.04	.25			.16				.03	.02	.03	.45												.60	.35	.08				2.0
Rolla School of Mines z				.77			.16																				.85					1.7
Rolla 5 SE r			.25	.48			.07						.13													.02	.16					1.1
Rolla 3 W r			.39	.48			.08																	.04		.19	.35					1.5
Rolla 4 SE			.35	.62			.10						.09													.02	.27	.04				1.4
Rolla 7 S r	-	-	-	-	-	-	-	-	-	-	-	-	-													.15	.19					-
Round Spring				.12										.41															.25			.7
Saint Charles				.66	.01		.05						.21		.02											T	.36	.04				1.3
St. James 3 NW r			.52	.73			.10																			.20	.36					1.9
St. Joseph AP WBAS z		3.02	.06			.05	T			.13	T	.65	.37							T	T					.07	.01					4.3
St. Louis AP WBAS z			T	.59			.02					1.07	.01												T	.10	.02			.27		2.0
St. Louis WBO z				.56			T			T		T	T												.15	.03	.10					.8
St. Louis Univ				.50			T					.01						.01	T						T	.07	.17	T		T		.7
St. Louis Wash Univ z				.66			.01																				.07	.14				.8
Saint Thomas			T	.68			.27																				2.33	.14				3.4

See reference notes following Station Index

TABLE 3 — Continued
DAILY PRECIPITATION

STATION		DAY OF MONTH																															TOTAL
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Salem	z				.88				.06							.61									.29					.12			1.96
Salisbury			.01	.04	.62			.18					.03		T							T						1.24					2.12
Savsrton Lock Dam 22					.92			.01					T	T	2.55													.58	.62		.02	.07	4.77
Ssdalia				.33	.26																							.16					.75
Seligman									.35		.46	1.11	.68	.02	.62	.82														1.78			5.84
Ssneca	r							.22	.45	.07		1.42	1.85	.61	.72	.40											.14	.02		.73			6.63
Sbelbina					.85			.03						1.69								T					.47	.26			.22		3.52
Shelbyville					.89									.29													1.15	.37			.31		3.01
Sbell Knob					.93				.18		.24	.50	.25	.01	.60	.37											.25	.17	.11	.08			3.69
Sikeston					.08							T			.01	.02				.02							T		.37	.02	.54		1.06
Siloam Springs																1.03												.76		.85			2.64
Skidmore	r		2.09	.01			.12	.04			.59	.05	.11	.15														.25					3.41
Spring City	r							.19				.47	.18	.33	.56	.16											.07	.57		.38			2.91
Springfield WBAS 4 NW	z			.02	T			.05		T	T	T	.14	.03	.16							T		T		.01	.51	.09	1.03				2.04
Stanberry	r		1.09				.18	.06			.72	.02	.38								.05							.03					2.53
Steelville	z				1.23																							.77	.78				2.78
Steffenville	z	.03		.09	.40			.06						.08													.80	.21			.87		2.54
Stover				.25	.16				.11						.11													.02	.14	T			.79
Sullivan 3 NE	z		.05		.80			.06	.02					T	.09													.08	.93		.43		2.46
Summersville					.28				.07					.67	.47	.37										.04		.07	.25				2.22
Sweet Springs		T	.44	.45	.67			.02					.09									T					.25	.33					2.25
Tarkio AP CAA	z	T	.87	T			.10	.01			.88	T	.07	.10				T									T						2.03
Tecumseb					.05						.07		.08	.35	.38											.32				.49			1.74
Topaz					2.00				.09						.60	.58												.07		1.40			4.74
Trenton	z			1.20	.02			.28			.08	.04		.04		T												T	.25		T	.62	2.53
Troy			T		.18			T						T	.01													.30	.18		.01		.68
Union 2 SE					.69	.02		.04						.25	.06													.18	.28				1.52
Unionville				.39	.11			.06				.72			1.10				T			T						.03	.09	.06	.19	.05	2.80
Valley Park					.64	T		T						.75	T												.24	.46	.25				2.34
Van Buren						.28										.32																	.60
Vandalia				T	.30			T						.03														1.20	T		T		1.53
Vanzant				2.60					.10							.85												.15	.35	.07			4.12
Vicby 2 SE	r			.09	.38			.10																			.13	.27					.97
Vichy AP CAA 2 NW				.07	.85			.20						T								T					.42	.46	T				2.00
Villa Ridge	r				.55			.05						.05													1.05				.02		1.72
Waco												.63	T	T													T						.63
Wappapello Dam	z				.03						.22	T			T	T											T				.10		.35
Warrensburg Central T C				.20	.08									.01								T						.35	.15				.79
Warrensburg 5 E	r		.20	.22																							.20	.05					.67
Warrenton				T	.58			.06							T												.08	.12					.84
Warsaw No 1				.18	.39			.06	.02				T		.20								T				T	.40	.06				1.31
Warsaw No.2				.16	.40			.08					T		.19													.43	.07				1.33
Washington	r			.05	.59			.04					.02	.04													.06	.08					.88
Wasola	z				.84				.04	T					.12	.90													.21				2.11
Waverly				.49	.49									.18														.04	.74				1.94
Webster Groves					.57			T		T			.03														T	T	.26				.86
Weingarten					.85																								1.76				2.61
West Plains	z			.22	T			.04		.02	T		T	.05	1.00												.15	T	.01				1.49
Williamsville					.10						.11			T	T															1.25			1.46
Willow Springs					.16						.10				1.70	.97												.58	.05	.03			3.59
Willow Springs ForestSr				.12							*	.05			2.34												.52	.10					3.13
Windsor 3 NW				.27	.04	T			T						.05								T					.53	.04				.93
Zalma					.05						.06	.02			.21																.29		.63

See reference notes following Station Index

TABLE 4
HOURLY PRECIPITATION

MISSOURI
AUGUST 1948

STATION	A. M. HOUR ENDING												P. M. HOUR ENDING												TOTAL
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	
1st																									
Ashton				.08	.12																				.20
Rolla 7 S	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Steffenville						.03																			.03
Sullivan 3 NE																.05									.05
Tarkio AP CAA				.09	.01																				.10
2d																									
Bedford														.17	.09	.08	.03	.07	.03						.47
Bolivar																				.06				.01	.07
Clinton																			.13	.04					.17
Grant City										.02	.36	.20	.02	.09	.01								.08	.02	.80
Harris													.22	.13	.04	.02	.01								.42
Kansas City AP WBAS													.06				.76		.04	.10	.03				.99
Kansas City St. John & Elmwood													.05				.55		.17	.04	.08				.89
Kansas City Mo 75th & Holmes																	1.36		.12	.14		.02	.01		1.65
Kansas City Mo 37th & Raytown Rd.																	.90			.09	.02				1.01
Kansas City Univ of Kansas City																	1.15			.30		.04			1.49
Linneus													.02	.10	.04	.08	.08	.01							.33
Livonia				.01	.01																				.02
Lucerne													.16	.07	.04	.02								.01	.30
Marshall AP CAA																	.08	.14	.06	.03	.01				.32
Maryville 6 NNW									.04	.20	.34	.05	.02	.07	.03								.02		.77
Mora																		.04	.96	.12	.11				1.23
Osceola																			1.44	.03					1.47
Pattonsburg											.05	.35	.15	.11	.19	.15	.05								1.05
Polo												.09	.38	.16	.06	.11	.09	.11	.01	.04					1.05
Ridgeway												.27	.10	.02	.08	.01		.01							.49
Saint Joseph AP WBAS									.25	.01	.24	.07	.82	1.12	.24	.01		.19	.05		.01				3.01
Skidmore									.04	1.41	.37	.03	.10	.05	.01	.03		.01		.01	.01			.02	2.09
Stanberry										.02	.26	.27	.07	.09	.14	.05	.03	.02	.01					.13	1.09
Tarkio AP CAA									.05	.38	.06	.02	.09	.05	.01	.06									.72
Trenton												.25	.27	.07	.13	.14	.04	.02							.92
Warrensburg 5 E																		.03	.12	.05					.20
3d																									
Alton 6 ENE																		.09	.01						.10
Appleton City												.01	.01					.39	.09						.50
Ashton					.04	.02	.03	.01												.02	.14	.27	.08	.04	.65
Bedford				.04	.01																				.05
Bolivar	.01																								.01
Clinton												.25	.01												.26
Columbia WBO													.13	.01								.05		.46	.65
Columbia Univ of Missouri		.01	.01									.03	.05									.05	.70	.05	.90
Dora																.05	.05	.01							.11
Downing				.07	.04	.02	.07													.04	.06	.02			.32
Eminence																	.15	.01						.01	.17
Forsyth																		.02	.01						.03
Grant City	.55	.30																							.85
Hamden							.04																	.02	.06
Harris			.08	.19	.02																				.29
Houston															.14	.80	.03	.02	.01						1.00
Jefferson City													.29	.01										.08	.38
Kansas City AP WBAS		.03	.05	.05	.07															.01					.21
Kansas City St. John & Elmwood		.02	.06	.01	.02																				.11
Kansas City Mo 75th & Holmes		.03	.05	.05																					.13
Kansas City Mo 37th & Raytown Rd.		.79	.30	.01																					1.10
Kansas City Mo Univ of K. C.		.06		.01	.01																				.08
Kirksville AP CAA				.05																		.01	.03		.09
Lakeside												.02	.19	.31	.08		.01				.02	.05			.68
Lampe 4 NNE														.54	.04	.03	.01								.62
Lebanon																	.03								.03
Lecoma 3 N															.40	.08								.17	.65
Livonia				.08	.07	.01	.03	.01	.02	.01										.06	.02	.05	.01		.37
Lockwood																.05	.87	.01	.01						.94
Lucerne			.05	.11	.10															.02	.04	.01	.01		.34
Macon																	.01							.21	.22
Marshall AP CAA	.01										.54	.03	.01	.01											.60
Maryville 6 NNW		.01	.01	.01																					.03
McCredie													.04	.06									.07	.22	.39
McCredie Exp Station													.04	.07	.01			.02					.08	.09	.31
Middletown																							.02	.05	.07
Mora											.35									.65					1.00
Mountain Grove																.08	.06	.01							.15
Nevada					.03													.20							.23
New Florence AP 1 SE															.08									.02	.10
Osceola																	.01	.04		.01	.12				.18
Owensville														.20	.26	.01								.01	.48
Perry																					.02	.20		.02	.24
Polo			.01	.04																					.05
Richwoods																	.05								.05
Ridgeway	.01	.30	.10																						.41
Rogersville																					.04				.04
Rolla School of Mines																					*	*	*	*	*
Rolla 5 SE															.19	.06									.25
Rolla Missouri 3 W														.07	.03	.01					.01		.08	.19	.39

See reference notes following Station Index

TABLE 4 — Continued
HOURLY PRECIPITATION

MISSOURI
AUGUST 1948

STATION	A. M. HOUR ENDING												P. M. HOUR ENDING												TOTAL
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	
Rolla 4 SE															.25	.06	.01	.01					.02		.35
Saint James 3 NW															.29	.02	.01							.20	.52
Saint Joseph AP WBAS	.03	.03																							.06
Salem															.16	.27	.02						.01	.01	.47
Skidmore			.01																						.01
Springfield AP WBAS 4 NW														.01				.01							.02
Steelville																.01	.02	.01						.03	.07
Steffenville										.10								.03	.01	.02	.02	.03		.20	.41
Sullivan 3 NE																.15	.01								.16
Tarkio AP CAA				.05																					.05
Trenton		.03	.26	.01																					.30
Vichy 2 SE															.05	.01							.02	.01	.09
Warrensburg 5 E										.22															.22
Washington																.02			.01	.01			.01		.05
Wasola															.08	.73									.81
West Plains																	.19	.07							.26
Willow Springs Forest S																.01	.10	.01							.12
													4th												
Advance AP							.04																		.04
Belleview		.10	.09	.51	.10	.04																			.84
Cap Au Gris L and D 25		.07	.07	.03		.08	.01	.01																	.27
Clarksville L and D 24 //	.20	.03	.17	.05	.03																				.48
Clearwater Dam Site						.36																			.36
Columbia WBO	.04	.04	.14																						.22
Columbia Univ of Missouri		.06	.10	.01																					.17
Ellington					.20																				.20
Eminence				.02		.01																			.03
Farmington			.11	.27	.53		.15		.01																1.07
Fulton	.15	.09	.01								.06	.01	.10		.12	.06	.01								.61
Hamden	.31	.15																							.46
Hornersville																.04									.04
Jefferson City	.02		.04	.13	.01																				.20
Lecoma 3 N	.25	.12	.58	.02		.01				.01	.01														1.00
Lucerne	.02																								.02
Macon	.12	.01																							.13
Marshall AP CAA	.05	.02	.03																						.10
McCredie	.09		.13	.03	.06																				.31
McCredie Exp Station	.22		.04	.09	.04	.01		.01																	.41
Middletown	.05		.03	.03																					.11
New Florence AP 1 SE	.06	.04		.17	.01	.01																			.29
Owensville	.02	.17	.03		.30	.01																			.53
Perry	.05	.26	.06	.03	.01																				.41
Potosi														.15	.18	.74		.03							1.10
Richwoods	.02	.03	.10	.12		.39	.03																		.69
Rogersville														.17	.03	.01	.01	.03							.25
Rolla School of Mines	*	*	*	*	*	*	.77																		.77
Rolla 5 SE	.04	.19	.19	.04		.01	.01																		.48
Rolla Missouri 3 W	.11	.35		.01	.01																				.48
Rolla 4 SE	.05	.20	.30		.01	.02	.02			.01	.01														.62
Saint James 3 NW	.34	.01	.19	.04	.05	.10																			.73
Saint Louis AP WBAS	.02	.11	.19	.10	.10	.05																			.57
Saint Louis WBO		.06	.21	.09	.01	.18	.01																		.56
Saint Louis Wash Univ			.12	.20	.10	.08	.01	.10	.05																.66
Salem	.07	.06	.28																						.41
Steelville	.16	.07	.78	.01	.10	.02																			1.14
Steffenville	.04	.02	.02	.01																					.09
Sullivan 3 NE		.09	.20		.15	.15																			.59
Vichy 2 SE	.03	.08	.05	.10	.12																				.38
Villa Ridge			.33		.18	.04																			.55
Wappapello Dam							.03																		.03
Washington		.06	.23	.02	.28																				.59
													5th												
Jewett					.39	.06																			.45
													6th												
Ashton																						.02			.02
Bedford																						.04	.03	.02	.09
Grant City																	.03	.01	.07	.09	.06	.12	.01		.39
Hamden																							.02		.02
Harris																			.03	.01	.07	.02	.07		.20
Kirksville AP CAA																				.01	.02	.03	.02	.01	.09
Linneus																						.05	.03	.02	.10
Livonia																					.05				.05
Lucerne																					.03	.02			.05
Macon																							.03	.01	.04
Maryville 6 NNW																	.05	.02	.05	.03	.03	.06	.01		.25
Pattonsburg																				.02	.03	.01	.04		.10
Ridgeway																		.05	.03	.05	.02	.05	.07	.03	.30
Saint Joseph AP WBAS																						.03	.02		.05
Skidmore																			.01	.02		.01	.04	.04	.12
Stanberry																			.02	.10	.01	.04	.01		.18
Steffenville																						.03	.01		.04
Sullivan 3 NE					.01	.01	.02																		.04
Tarkio AP CAA																.04	.03	.02	.05	.01	.02	.02		.01	.20
Trenton																				.05	.07	.02	.04	.02	.20

See reference notes following Station Index

TABLE 4 — Continued
HOURLY PRECIPITATION

MISSOUR
AUGUST 194

STATION	A. M. HOUR ENDING												P. M. HOUR ENDING												TOTAL
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	
7th																									
Amsterdam					.04																				.04
Bedford	.05	.03	.04	.09			.01																		.22
Bolivar					.08	.08	.19	.02	.01						.01	.01	.01								.41
Cassville Ranger Station										.09	.01														.10
Clinton							.04	.05																	.09
Columbia WBO			.03	.01		.01	.04	.02	.01																.12
Columbia Univ of Missouri			.01	.01	.01	.02	.05	.02	.01																.13
Ellington									.01	.01															.02
Forsyth								.02																	.02
Fulton					.01						.01	.01													.03
Grant City	.01	.03	.03																						.07
Hamden	.03	.01				.01																			.05
Harris		.01	.03	.02																					.06
Jefferson City					.06	.04		.06	.05																.21
Kirksville AP CAA		.01																							.01
Lakeside									.04	.08	.03														.15
Lampe 4 NNE											.05	.01	.01	.01	.01										.09
Lebanon								.06	.05	.09															.20
Lecoma 3 N							.02	.02	.02	.03															.09
Linneus	.02	.02		.01																					.05
Lucerne	.02	.03																							.05
Macon		.01																							.01
Marshall AP CAA		.04	.03	.01																					.08
Maryville 6 NNW	.02	.04	.02	.01																					.09
McCredie Exp Station								.02																	.02
Middletown				.02																					.02
Mora									.07	.07		.01													.15
Nevada		.01		.01																					.02
New Florence AP 1 SE					.01																				.01
Osceola						.05	.01																		.06
Pattonsburg		.04	.01																						.05
Polo	.05	.03	.02																						.10
Richwoods								.04																	.04
Ridgeway	.02	.08	.01	.01																					.12
Rogersville						.10	.02															.04			.16
Rolla School of Mines								.10	.05	.01															.16
Rolla 5 SE								.05	.02																.07
Rolla Missouri 3 W						.02	.02	.04																	.08
Rolla 4 SE					.01	.01	.01	.05	.02																.10
Saint James 3 NW						.01	.04	.02	.02	.01															.10
Saint Louis									.01																.01
Salem								.06																	.06
Seneca								.01	.05	.01	.01									.10		.04			.22
Skidmore	.01	.01	.01	.01																					.04
Spring City								.15		.04															.19
Springfield AP WBAS 4 NW						.05																			.05
Stanberry	.01	.02	.01	.01				.01																	.06
Steelville						.01	.02																		.03
Steffenville			.02																						.02
Trenton	.02	.03	.02	.02	.01																				.10
Vichy 2 SE								.07	.03																.10
Villa Ridge						.05																			.05
Washington						.04																			.04
Wasola										.04															.04
West Plains									.02	.02															.04
8th																									
Seneca						.44	.01																		.45
West Plains																		.01		.01		.01		.01	.04
9th																									
Advance AP																							.03		.03
Cassville Ranger Station											.11	.09	.01	.02	.01				.02						.26
Forsyth													.01	.01	.01	.01									.04
Grant City				.18	.04																				.22
Hornersville																				.02	.02		.01		.05
Jewett																							.30	.07	.37
Lampe 4 NNE												.06	.03		.05										.14
Nevada																.02									.02
Seneca									.07																.07
10th																									
Advance AP	.01																								.01
Clearwater Dam Site			.20	.05			.03																		.28
Farmington	.04								.01	.01	.01														.07
Harris							.04																		.04
Hornersville		.01	.02	.02	.02	.07	.03																		.17
Jewett	.01						.20	.04																	.25
Kansas City AP WBAS											.05	.01													.06
Livonia																				.09	.01				.10
Malden													.01												.01
Maryville 6 NNW			.96	.22	.01																				1.19
Pattonsburg					.42	.15	.01	.01																	.59
Ridgeway						.06																		.02	.08
Saint Joseph AP WBAS					.13																				.13
Saint Louis AP WBAS																.01					.01				.07
Skidmore			.30	.21			.01	.07																	.59

See reference notes following Station Index

TABLE 4 — Continued
HOURLY PRECIPITATION

MISSOURI
AUGUST 1948

STATION	A. M. HOUR ENDING												P. M. HOUR ENDING												TOTAL
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	
Stanberry				.15	.57																				.72
Tarkio AP CAA			.50	.33	.01	.01	.05	.05																	.95
Trenton						.04	.03	.01																	.08
Wappapello Dam						.06	.15																		.21
Willow Springs Forest S		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
11th																									
Bolivar							.01	.05								.01	.01	.01							.09
Cassville Ranger Station					.52	.05	.08																		.65
Downing					.05	.04																			.09
Forsyth							.05	.05																	.10
Grant City	.03		.22																						.25
Harris				.12	.03																				.15
Lampe 4 NNE						.13	.03	.03	.01																.20
Livonia				.09	.18																				.27
Lucerne				.14	.05		.02																		.21
Maryville 6 NNW		.19	.16																.02						.37
Nevada				.07																					.07
Ridgeway	.06	.01	.29	.09																					.45
Rogersville						.02		.01																	.03
Seneca				.72	.40	.19	.11																		1.42
Skidmore																			.05						.05
Spring City				.20	.11	.13	.02	.01																	.47
Stanberry																				.01	.01				.02
Tarkio AP CAA		.01	.01																						.02
Trenton		.01	.02	.01																					.04
Willow Springs Forest S	*	.05																							.05
12th																									
Alton																	.27	.17	.42						.86
Appleton City							.01	.01	.01		.01														.04
Cap Au Gris L and D 25														.60	.01	.01		.02		.01					.65
Cassville Ranger Station					.02	.29	.13		.02																.46
Clarksville L and D 24 //																			.05	.19					.24
Clinton						.01	.01			.01	.01														.04
Columbia WBO									.11	.03															.14
Columbia Univ of Missouri									.16	.02	.01														.19
Ellington																.20									.20
Eminence																	.22	.01							.23
Forsyth							.05	.04	.01																.10
Grant City										.40	.08	.01	.01												.50
Lampe 4 NNE						.04	.14	.04																	.22
Lockwood					.05	.09	.02	.01	.01	.01								.01							.20
Marshall AP CAA							.74	.06	.04			.02													.86
Maryville 6 NNW									.08	.10															.18
McCredie										.26	.02	.01													.29
Middletown																			.47	.64					1.11
Nevada					.10	.02																			.12
Osceola							.05	.02	.01				.01	.01											.10
Polo								1.50																	1.50
Potosi																		.02							.02
Richwoods													.62	.02											.64
Ridgeway											.08														.08
Rogersville									.01	.01															.02
Saint Joseph AP WBAS						.16	.49																		.65
Saint Louis AP WBAS													.10	.93	.02										1.05
Seneca				.75	.86	.18	.05	.01																	1.85
Skidmore									.03	.07	.01														.11
Spring City				.03	.05	.08	.02																		.18
Springfield AP WBAS 4 NW						.01	.04	.08	.01																.14
Stanberry										.33	.04	.01													.38
Tarkio AP CAA									*	*	.08														.08
Trenton									.04																.04
Washington																	.02								.02
13th																									
Alton 6 ENE												.04	.06												.10
Amsterdam								.30	.12	.18	.03														.63
Appleton City									.30	.59	.01														.90
Cap Au Gris L and D 25																	.08	.05	.01	.01					.15
Cassville Ranger Station								.01	.11	.09	.01														.22
Clinton										.04	.18	.02													.24
Dora											.04	.01													.05
Downing												.07													.07
Forsyth										.04	.01														.05
Fulton																	.02						.01		.03
Harris												.02	.02												.04
Hornersville																.07									.07
Houston												.60													.60
Jewett														.02	.02	.01									.05
Kansas City AP WBAS							.03	.06																	.09
Kansas City Mo 75th & Holmes							.05	.03																	.08
Kansas City Univ of K. C.							.04	.04	.01																.09
Kirksville AP CAA														.12	.02		.01								.15
Lakeside											.03	.05													.08
Lampe 4 NNE								.05	.05	.01															.11

See reference notes following Station Index

TABLE 4 — Continued
HOURLY PRECIPITATION

MISSOURI
AUGUST 1948

STATION	A. M. HOUR ENDING												P. M. HOUR ENDING												TOTAL
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	
Lebanon												.15	.01												.16
Livonia														.55	.07										.62
Lockwood									.07	.08	.01		.01		.01			.02							.20
Lucerne													.30												.30
Malden																	.05								.05
Maryville 6 NNW				.20	.19	.01																			.40
McCredie																	.12								.12
McCredie Exp Station																	.39								.39
Mora										.02	.01	.07													.10
Nevada								.08																	.08
New Florence AP 1 SE													.13					.18	.02						.33
Osceola							.03			.64	.16			.02											.85
Polo							.10																		.10
Rogersville						.03																			.03
Rolla 5 SE													.13												.13
Rolla 4 SE													.09												.09
Rolla 7 S	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Saint Joseph AP WBAS						.29	.08																		.37
Seneca							.27	.14	.20																.61
Skidmore					.15																				.15
Spring City							.04	.11	.17	.01															.33
Springfield AP WBAS 4 NW										.01		.02													.03
Steffenville															.08	.01									.09
Sullivan 3 NE																				.07					.07
Tarkio AP CAA				.01	.01																				.02
Villa Ridge																				.05					.05
Washington																				.04					.04
West Plains												.05	.01												.06
14th																									
Advance AP															.03	.01									.04
Alton 6 ENE						1.35	.50	.22	.33																2.40
Bolivar																			.08						.08
Cassville Ranger Station						.07	.21	.12	.19	.07	.06	.10	.04												.86
Dora								.02	.21	.16	.14	.02		.01	.09										.65
Ellington				.01	.01	.08																			.10
Forsyth					.55	.12	.03	.11	.15	.17	.05	.07	.02	.02	.01										1.30
Hornersville								.01	.10	.12	.02	.03	.01	.03	.01	.01									.34
Houston												.02	.02								.01				.05
Lampe 4 NNE						.05	.27	.13	.18	.14	.10	.06	.01	.01											.95
Lebanon													*	*	*	*	*	*	*	*	*	*	*	*	*
Lockwood										.05	.01		.02		.01	.07	.02								.18
Malden								.85	.95	.06	.02	.04		.01	.01		.01						.08		2.03
Mountain Grove					.20	.15		.04	.01		.01	.02													.43
Rogersville								.17		.10	.08	.06	.04												.45
Salem												.04	.54	.02	.01										.61
Seneca					.05	.09	.11	.12	.10	.05	.13	.06	.01												.72
Spring City							.07	.27	.11	.02	.04	.04	.01												.56
Springfield AP WBAS 4 NW										.05	.05	.04	.01			.01									.16
Wasola					.12	.01		.08	.24	.43	.09	.03	.01	.01											1.02
West Plains									.13	.26	.45	.11	.05	.01	.02	.02									1.05
Willow Springs Forest S					.55	.10	.76	.23	.37	.15	.08	.05	.01	.03	.01										2.34
15th																									
Alton 6 ENE												.19	.07	.01	.01		.01	.01							.30
Amsterdam																		.19	.01						.20
Houston	.01																								.01
Kansas City AP WBAS															.08										.08
Kansas City St. John & Elmwood															.14										.14
Kansas City Mo 75th & Holmes															.08	.06	.01								.15
Kansas City Univ of K. C.															.14	.04	.02								.20
Lebanon	*	*	*	*	*	*	*	*	.08																.08
Ridgeway												.20	.43												.63
Seneca																				.28	.12				.40
Spring City																			.13	.03					.16
Wappapello Dam															.01			.01	.01						.03
16th																									
Columbia WBO												.01													.01
Jefferson City																				.02	.02			.02	.06
Lakeside														.01	.01	.38	.26								.66
17th																									
Jefferson City	.01	.01																							.02
20th																									
Stanberry															.05										.05
21st																									
Kirksville AP CAA				.05	.01	.01																			.07
Livonia			.02																						.02
Macon						.02																			.02
23d																									
Lebanon																	.05	.01							.06
Salem																			.28	.01					.29

See reference notes following Station Index

TABLE 4 — Continued
HOURLY PRECIPITATION

MISSOURI
AUGUST 1948

STATION	A. M. HOUR ENDING												P. M. HOUR ENDING												TOTAL
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	
												24th													
Rolla Missouri 3 W																		.04							.04
												25th													
Alton 6 ENE																	.16								.16
Clinton														.06											.06
Farmington																.30	.29	.01							.60
Hornersville																							.05		.05
Malden																								.10	.10
Saint Louis WBO																		.15							.15
Springfield AP WBAS 4 NW																		.01							.01
Alton 6 ENE										.02															.02
Appleton City																		.10	.01	.01					.12
Ashton														*	*	*	*	*	*	*	*	*	.40		.40
Bolivar											.21	.09													.30
Cap Au Gris L and D 25																		.65	.28	.22		.08	.01		1.24
Cassville Ranger Sta								.09	.58	.07	.01		.02												.77
Clarksville L and D 24														.05		.60	.65		.30	.46	.04		.01	.07	2.18
Clearwater Dam Site						.02																			.02
Clinton													.60												.60
Columbia WBO														.98	.49	.07		.10	.01						1.65
Columbia Univ of Missouri															.04	.02		.04	.05						.15
Downing																.13	.77	.19	.01						1.10
Forsyth							.14	.30	.29	.02	.01	.02	.06	.01											.85
Fulton												.10	.70				.05	.20				.01		.01	1.07
Harris																	.05								.05
Houston														.04	.02	.02									.08
Jefferson City														.09		.09	.72							.01	.91
Kansas City AP WBAS															.01										.01
Kirksville AP CAA															.21	.16	.23								.60
Lakeside																	.04								.04
Lampe 4 NNE								.40	.11	.01															.52
Lebanon											.01	.03													.04
Livonia																	.23	.11							.34
Lockwood										.01	.02														.03
Macon															.15	1.12	.04	.02	.01	.01					1.35
Maryville 6 NNW												.34	.16												.50
McCredie													.56	.02	.01		.01	.21	.01	.01				.01	.84
McCredie Exp Sta													1.12	.08				.10	.02						1.32
Middletown																		.01	.08	.01					.10
Mora											.01	.02	.07												.10
Mountain Grove												.02		.02											.04
Nevada												.18	.02												.20
New Florence AP 1 SE																	.07	.08							.15
Osceola												.64		.02		.01									.67
Owensville																.02				.02					.04
Perry														.02			.01		.01						.04
Polo									.02					.08				.01	.03		.01				.15
Potosi																	.02								.02
Richwoods														.05	.07										.12
Rogersville									*	.60															.60
Rolla School of Mines															.40										.40
Rolla 5 SE																					.02				.02
Rolla Missouri 3 W														.04	.13	.01	.01								.19
Rolla 4 SE																.02									.02
Rolla 7 S															.08	.07									.15
Saint James 3 NW															.15	.03	.02								.20
Saint Joseph AP WBAS														.01		.06									.07
Saint Louis AP WBAS																				.02	.01				.03
Saint Louis WBO																				.03					.03
Saint Louis Wash Univ																						.08			.08
Seneca										.05	.01			.08											.14
Spring City										.05	.01			.01											.07
Springfield AP WBAS 4 NW									.02	.39	.03	.04	.02		.01										.51
Steelville															.58	.20	.02								.80
Steffenville														.46	.15	.10	.03	.02		.07	.04				.87
Sullivan 3 NE																	.03			.05					.08
Vichy 2 SE																.12	.01								.13
Villa Ridge																.29	.66		.10						1.05
Warrensburg 5 E													.06	.14											.20
Washington																.03	.03								.06
West Plains												.02	.08		.04										.14
Willow Springs Forest S													.36	.13	.02	.01									.52
												27th													
Alton 6 ENE															.12	.02									.14
Amsterdam							.02	.03	.10			*	*	*	*	*	*	*	.15						.30
Appleton City								.02	.02		.24														.28
Ashton													.06												.06
Bolivar													.25	.53	.02										.80
Clinton												.34													.34
Columbia WBO															1.77	.02									1.79
Columbia Univ of Missouri														.60	1.29	.01									1.90
Downing								.02					.02	.09	.08										.21
Eminence										.03	.02														.05

See reference notes following Station Index

TABLE 4 — Continued
HOURLY PRECIPITATION

MISSOURI
AUGUST 1948

STATION	A. M. HOUR ENDING												P. M. HOUR ENDING												TOTAL
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	
Farmington													.02	.01											.03
Forsyth															.02	.07									.09
Fulton	.01				.01	.05	.76	.62	.06	.21	.01								.10	.01					1.84
Grant City												.19	.01												.20
Hamden											.05	.01	.15	.04		.01									.26
Harris													.10												.10
Hornersville																					.04				.04
Houston		.02						.03	.01	.01															.07
Jefferson City	.03	.02			.02	.12	.10		.03							.26		.06	.09					.01	.74
Kansas City AP WBAS										.15	1.12														1.27
Kansas City St. John & Elmwood										.08	.20														.28
Kansas City Mo 75th & Holmes										.78	.02	.02													.82
Kansas City Mo 37th & Raytown Rd.										.06	.19														.25
Kansas City Univ of K. C.										.20	.30														.50
Kirksville AP CAA													.02	.11	.06										.19
Lakeside																	.03	.01	.01						.05
Lampe 4 NNE															.08	.57	.02	.01							.68
Lebanon															.01	.01	.01	.01		.01	.01				.06
Lecoma 3 N																.01		.01							.02
Linneus												.10	.08												.16
Livonia														.12	.03										.15
Lockwood											.08	.05	.02	.02											.17
Lucerne													.05												.05
Macon								.02		.32	.03			.55	.07	.01									1.00
Malden																						.24	.01		.25
Marshall AP CAA										.14	.05	.18		.02	.12										.51
Maryville 6 NNW					.12	.10			.02			.02	.01	.02											.29
McCredie				.01		.03	.11	.21								.01	.01	.01	.03	.04					.46
McCredie Exp Station						.04	.40	1.15	.02	.12	.01	.04	.01				.01	.01	.04	.04					1.89
Middletown							.02	.10	.01	.24	.13	.07	.01				.05								.63
Mora												.10	.05												.15
Mountain Grove						.16	.03									.01	.01	.54	.68	.03					1.44
Nevada										.18															.18
New Florence AP 1 SE						.20	.14		.34	.02	.05					.10									.85
Osceola							.03							.05	.01										.09
Owensville			.01				1.81	.84																	2.26
Pattonsburg												.05	.08	.01											.12
Perry								.07	.10	.13	.88	.21		.01		.02									1.22
Polo									.01		.07	.06													.14
Potosi																	.08								.08
Richwoods	.02	.01																							.03
Ridgeway												.02	.23												.25
Rogersville			.01	.04	.23	.07																			.35
Rolla School of Mines			.02	.38	.04	.01																			.45
Rolla 5 SE					.02				.14																.16
Rolla Missouri 3 W				.20				.02	.03	.02								.08							.35
Rolla 4 SE		.02		.01					.22	.02															.27
Rolla 7 S				.07	.01				.05							.02	.04								.19
Saint James 3 NW								.02	.13	.21															.36
Saint Joseph AP WBAS												.01													.01
Saint Louis AP WBAS																		.02	.01	.05					.08
Saint Louis WBO																				.09	.01				.10
Saint Louis Wash Univ																						.14			.14
Seneca														.02											.02
Skidmore												.10	.15												.25
Spring City												.04	.01		.02	.48	.01	.01							.57
Springfield AP WBAS 4 NW														.08	.01										.09
Stanberry													.03												.03
Steelville	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.78	.76
Steffenville								.02									.09								.11
Sullivan 3 NE																	.47		.36						.83
Trenton												.13	.09												.22
Vichy 2 SE			.01	.02	.22					.02															.27
Warrensburg 5 E	.02								.03																.05
Washington																				.08	.02				.08
Wasola																		.18	.02						.20
West Plains	.01	.01	.02																						.04
Willow Springs Forest 8							.08	.02																	.10
28th																									
Bolivar													.08		.02	.01									.09
Cassville Ranger Station													.40	.87	.03	.04	.03	.03							1.20
Dora																2.18	.07	.05							2.30
Eminence																.25									.25
Jefferson City	.02																								.02
Lebanon															.04	.01									.05
Lockwood																.84	.09	.01							.74
Lucerne																					.80				.60
Marshall AP CAA		.01		.01	.01																				.03
McCredie						.08																			.08
Middletown			.01	.01																					.02
Nevada																	.01								.01
Rogersville																.03	.01	.04							.08
Rolla 4 SE															.02	.01	.01								.04
Salem												.11													.11
Springfield AP WBAS 4 NW													.10		.56	.35	.01	.01							1.03

See reference notes following Station Index

TABLE 4 — Continued
HOURLY PRECIPITATION

MISSOURI
AUGUST 1948

STATION	A. M. HOUR ENDING												P. M. HOUR ENDING												TOTAL
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	
29th																									
Advance AP													.13	.03						.02	.05				.23
Cassville Ranger Station													*	.03											.03
Hornersville																							.07	.03	.10
Jewett															.02										.02
Lampe 4 NNE														.05											.05
Malden																.21	.18					.26	.02		.67
Seneca														.67	.06										.73
Spring City														.37	.01										.38
Wappapello Dam																						.10			.10
30th																									
Alton 6 ENE											.07	.09													.16
Ashton		.49	.01			.01	.10	.15	.04																.80
Columbia WBO									.02																.02
Downing						.19	.13	.17	.02																.41
Hamden								.08																	.08
Harris						.28	.30																		.58
Kirksville AP CAA							.08		.01		.01														.10
Linneus							.04	.11																	.15
Livonia						.18	.10	.02	.04	.01															.35
Lucerne						.65	.02	.01																	.68
Macon							.02	.26	.02	.01															.31
Malden	.01			.01																					.02
Owensville				.06	.04																				.10
Pattonsburg						.17	.01																		.18
Perry									.04																.04
Ridgeway					.01	.20																			.21
Saint Louis AP WBAS			.27																						.27
Steffenville			.46	.01		.12	.06	.17	.03	.02															.87
Sullivan 3 NE					.40																				.40
Villa Ridge	.01	.01																							.02
31st																									
Marshall AP CAA	.05	.01																							.06
Polo		*	*	*	*	*	*	.14																	.14
Potosi						.02																			.02
Richwoods																		.05							.05
Trenton		.16	.23	.01	.10	.03	.07	.01	.01																.62

See reference notes following Station Index

TABLE 5

DAILY TEMPERATURES (° FAHRENHEIT)

MISSOURI
AUGUST 1948

STATION		DAY OF MONTH																															MEAN
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Advance AP	MAX	89	90	91	76	82	82	85	88	89	87	92	89	93	83	90	90	93	96	97	94	96	100	100	99	98	97	97	93	95	93	89	91.4
	MIN	52	63	59	60	53	48	60	55	58	69	65	66	62	65	58	57	56	62	61	60	58	64	66	63	64	71	68	67	64	64	61	61.2
Albany	MAX	85	70	75	78	79	76	78	86	85	87	91	89	87	83	84	92	94	93	95	95	96	98	98	94	93	89	84	95	97	90	89	87.9
	MIN	64	54	60	58	47	49	59	62	65	63	62	63	66	67	60	60	63	58	60	69	70	68	72	69	65	72	70	69	67	69	70	63.4
Amity	MAX	84	74	77	77	78	74	78	85	84	85	90	89	84	83	84	93	93	92	93	93	95	97	97	93	91	86	84	93	95	90	88	87.1
	MIN	65	56	60	58	50	53	59	60	64	66	63	66	68	65	61	63	65	61	62	69	71	72	71	71	69	71	68	69	68	68	68	64.4
Anderson 2 SW	MAX	83	88	89	89	71	78	76	73	82	78	87	88	86	83	77	83	85	88	88	92	93	94	93	94	92	89	82	84	88	87	90	85.5
	MIN	56	58	60	62	51	51	54	63	61	63	68	68	66	68	62	60	60	60	58	60	63	65	64	60	61	64	67	65	62	63	61	61.3
Appleton City	MAX	93	90	84	78	80	82	83	88	86	88	94	92	82	90	87	89	91	95	95	95	89	98	97	94	92	84	90	94	93	94	90	89.6
	MIN	72	63	64	64	56	52	63	63	66	63	68	71	68	66	64	66	62	70	63	66	70	65	68	68	65	70	68	66	63	66	65	65.2
Arcadia	MAX	85	89	90	92	72	78	80	78	90	87	87	92	83	85	82	86	90	90	93	95	94	99	102	100	97	96	93	94	96	97	95	89.9
	MIN	59	60	55	56	52	50	50	54	56	57	63	63	60	61	55	57	57	58	60	59	59	60	69	63	62	64	65	66	65	66	63	59.4
Bethany	MAX	84	80	74	75	77	74	75	83	83	85	89	87	86	86	82	88	93	91	96	95	93	100	100	95	93	88	84	93	95	92	87	87.2
	MIN	66	53	60	58	47	50	59	62	65	67	62	63	65	67	60	59	62	58	59	67	70	72	71	71	61	71	69	70	68	67	68	63.4
Birch Tree	MAX	89	89	89	73	79	79	81	84	81	88	92	87	84	81	85	84	89	92	94	93	95	97	95	94	93	91	91	92	94	93	89	88.3
	MIN	55	63	55	64	52	52	61	62	57	67	61	66	61	68	63	59	58	62	60	63	65	65	66	62	62	68	70	65	64	63	61	61.8
Black 9 NW	MAX	87	85	85	70	88	79	80		85	88	87	92	84	83	82	86	90	91	94	95	96	99	98	98	94	92		93		94	90	88.8
	MIN	64	64	65	55	52	52	56		57	70	65	66	68	71	62	63	64	71	62	60	61	66	72	65	64	68		66		66	62	63.5
Bolivar	MAX	88	88	82	74	75	78	77	80	78	86	91	86	82	83	82	87	89	93	94	95	92	98	97	93	90	83	87	86	91	88	86	86.4
	MIN	62	65	64	64	56	54	62	63	65	66	68	72	67	70	65	63	64	71	64	68	70	70	71	69	68	67	70	68	64	68	64	65.8
Boonville Waterworks	MAX	81	84	84	80	77	77	75	75	80	80	85	88	90	83	82	82	85	88	90	92	90	92	95	96	94	90	87	83	88	90	84	85.4
	MIN	64	59	62	60	53	54	59	59	62	62	63	68	67	64	66	63	65	67	67	70	71	69	73	72	69	70	66	67	65	67	65	64.7
Brookfield	MAX	89	86	80	84	79	81	81	80	89	89	90	94	94	87	84	90	94	94	96	100	101	100	103	104	99	90	92	84	96	99	91	91.0
	MIN	67	56	61	61	51	52	61	63	62	63	66	68	68	66	60	62	64	67	64	68	75	71	73	72	66	73	68	68	69	65	65	64.9
Brunswick	MAX	84	84	81	81	77	79	78	77	84	84	87	92	91	86	83	88	89	92	92	96	96	97	100	99	96	94	90	83	94	95	89	88.3
	MIN	62	59	59	63	54	53	53	61	61	65	64	67	70	68	62	62	66	65	66	65	70	72	72	72	68	68	69	68	69	69	69	64.8
Butler	MAX	88	89	82	76	78	80	80	86	79	87	92	89	81	88	85	87	90	97	93				96	93		92	85	91	91	90	85	87.0
	MIN	62	64	63	63	53	53	63	63	65	64	67	70	66	65	63	61	63	67	63				67	69		66	69	66	64	65	66	64.1
Camdenton	MAX	90	88	85	74	77	87	82	85	86	88	92	93	89	88	87	88	89	92	94	98	95	98	99	96	95	92	90	89	91	89	86	89.4
	MIN	63	64	63	62	57	56	62	63	64	65	68	72	68	64	68	63	66	70	67	68	70	69	74	71	68	72	70	69	65	68	65	66.2
Campbell	MAX	88	91	92	88			84	88	89	90		90	93	80	88	87	90	94	94	91	92	96	97	98	95	92	95	96	96	90	89	91.2
	MIN	58	58	61	65			53	57	59	69		65	66	70	65	63	62	65	62	65	65	65	66	65	67	67	70	68	69	63	60	63.9
Canton Lock Dam 20	MAX	82	81	79	75	78	78	78	84	86	93	94	96	87	85	84	93	90	90	92	85	92	92	96	96	95	92	83	96	93	89	86	87.7
	MIN	65	56	63	63	50	50	62	61	63	63	70	66	68	68	59	60	64	66	65	66	69	69	74	72	64	70	72	69	71	66	63	64.6
Cape Girardeau Mo State	MAX	88	88	90	80	79	81	82	85	88	88	93	90	91	85	87	87	93	92	94	90	93	97	98	99	96	95	96	97	94	94	88	90.3
	MIN	59	65	65	64	55	56	63	60	63	70	69	70	67	69	62	64	62	71	72	62	64	67	68	69	69	72	71	70	70	66	64	65.6
Caplinger Mills	MAX	90	88	84	75	78	79	77	82	79	87	92	89	85	84	84	86	89	93	95	94	90	98	97	93	88	83	85	90	90	90	86	87.1
	MIN	62	65	64	64	53	51	62	63	65	65	65	70	66	67	64	63	61	70	62	67	68	66	68	68	65	68	68	66	62	64	63	64.3
Carrollton	MAX	86	80	82	77	79	81	79	85	84	87	92	91	88	83	87	90	93	93	95	96	96	99	100	95	93	91	85	93	94	90	87	88.7
	MIN	64	58	62	62	53	50	61	59	63	63	64	69	69	66	59	63	62	68	63	67	74	67	71	70	65	70	67	68	66	68	58	64.1
Carthage	MAX	89	89	89	74	77	78	75	85	81	87	92	89	85	81	84	87	89	92	95	94	95	97	95	92	88	81	86	90	90	92	89	87.3
	MIN	61	62	67	64	55	54	65	66	64	65	69	69	68	69	65	64	62	69	63	69	69	68	67	66	69	70	69	67	64	65	63	65.3
Caruthersville	MAX	86	89	90	85	78	81	84	86	87	88	89	90	91	82	86	86	89	91	94	90	92	94	97	96	96	93	93	93	94	90	86	89.2
	MIN	65	69	68	70	61	61	66	67	67	73	74	67	72	75	70	69	65	69	67	70	67	69	72	71	74	73	74	75	73	69	69	69.3
Chillicothe AP CAA	MAX	84	77	80	76	79	78	79	86	86	86	91	88	86	84	85	89	92	91	95	95	96	98	99	94	93	89	85	93	96	91	88	88.0
	MIN	60	55	61	58	53	53	60	61	63	63	63	66	68	64	61	61	62	62	63	66	74	70	70	70	65	71	66	67	67	68	66	63.7
Clearwater Dam Site	MAX	89	88	89	87	77	80	80	84	85	87	91	90	85	83	87	86	93	91	94	95	97	100	100	98	96	95	90	92	96	95	89	90.0
	MIN	58	57	60	58	56	54	61	64	59	68	67	67	65	66	64	62	61	67	63	64	64	68	72	67	66	72	72	68	69	66	66	64.1
Clinton	MAX	89	87	80	78	76	80	80	84	82	88	95	92	81	85	85	90	91	95	96	96	90	99	99	95	91	83	86	92	92	91	84	88.1
	MIN	65	64	64	60	55	53	65	64	65	64	68	72	69	66	64	64	64	69	64	68	71	67	71	72	67	69	69	68	61	68	65	65.5
Columbia WBO	MAX	85	82	78	75	75	77	75	81	82	87	90	90	86	82	84	87	89	93	93	92	93	97	97	94	92	88	87	87	91	86	85	86.5
	MIN	64	60	63	59	53	56	61	62	65	64	65	70	67	65	61	63	66	68	66	68	72	69	73	73	70	67	67	70	68	64	65	65.2
Columbia Univ of MO	MAX	84	84	79	78	77	76	76	82	83	86	90	90	90	82	84	87	88	91	92	91	94	96	97	93	91	89	87	88	91	86	86	86.7
	MIN	63	57	61	60	50	52	60	58	62	61	62	67	65	64	58	61	64	66	64	66	69	67	71	69	65	70	66	67	65	66	64	63.1
Conception	MAX	85	82	74	78	78	78	78	86	84	85	90	89	89	85	84	91	94	92	94	94	94	97	96	93	92	91	85	93	95	93	92	88.1
	MIN	65	57	60	56	53	54	59	61	65	63	63	66	68	67	63	64	67	62	65	70	69	70	72	71	66	71	69	70	69	69	68	64.8
Crystal City	MAX	90	86	88	82	78	80	82	84	87	86	94	91	90	86	88	82	88	92	93	91	97	101	98	99	98	94	92	95	96	92	88	89.9
	MIN	57	61	59	61	52	50	62	57	60	66	65	67	65	68	56	71	59	60	65	61	64	66	72	67	64	69	67	67	66	69	61	62.9
Doniphan	MAX	93	94	95	85	82	88	85	90	89	91	92	90	90	89	88	88	91	94	95	92	95	97	96	96	93	92	92	91	95	92	92	91.4
	MIN	55	64	62	60	51	49	60	60	59	69	67	66	64	65	64	61	60	66	62	64	65	67	70	65	65	72	71	68	67	64	65	63.4
Edgerton	MAX	90	89	88	79	77	78	76	79	80	83	84	90	92	86	84	84	91	95	95	95	95	98	100	99	95	93	88	85	92	95	90	88.5
	MIN	59	60	55	63	49	51	58	60	63	69	66	72	67	64	62	60	62	64	60	62	61	71	69	70	65	71	70	67	70	68	70	63.7
Eldon	MAX	87	85	80	75	78	77	77	83	84	86	92	90	86	87	86	85	88	91	93	98	96	97	95	92	90	85	89	90	92	89	87	87.4
	MIN	65	61	63	62	58	52	61	59	56	63	66	73	71	65	63	61	67	64	69	66	68	63	73	71	67	71	69	68	66	69	64	65.3
Elsberry	MAX	83	86	84	85	76	78	78	81	84	85	89	92	91	92	83	85	88	90	90	90	89	97	96	96	96	94	93	87	90	95	88	88.1
	MIN	56	48	57	59	47	46	60	54	56	60	62	65	62	62	54	56	60	67	60	59	63	66	67	68	61	65	67	67	67	65	54	59.9
Farmington	MAX	88	85	87	75	76	80	80	82	85	86	91	85	86	80	84	85	90	90	92	92	98	99	97	98	91	93	90	94	93	90	85	88.0
	MIN	56	61	59	61	55	50	57	57	58	66	64	69	63	69	57	61	60	71	64	62	63	67	70	64	65	69	68	67	67	66	61	62.8
Fayette	MAX	85	83	80	76	77	77	77	83	84	86	91	91	88	83	85	90	90	92	94	93	94	97	98	95	91	88	85	91	92	88	86	87.4
	MIN	63	58	61	61	53	52	61	59	62	62	63	67	67	66	59	63	63	68	64	67	71	67	71	70	61	71	68	68	67	68	66	64.0

See reference notes following Station Index

TABLE 5 — Continued

DAILY TEMPERATURE (°FAHRENHEIT)

MISSOURI
AUGUST 1948

STATION		DAY OF MONTH																															MEAN
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Fulton	MAX	86	85	82	81	75	75	77	76	82	84	87	91	90	88	80	82	87	90	90	93	92	94	97	97	95	92	88	82	89	91	85	86.5
	MIN	61	56	61	60	57	51	61	58	62	60	63	68	64	65	59	60	63	68	64	62	66	65	69	70	65	70	68	69	67	66	62	63.1
Grant City	MAX	85	71	73	76	79	75	77	83	83	87	89	87	86	84	81	90	94	91	92	93	93	98	98	94	92	88	85	93	98	91	88	86.9
	MIN	64	57	57	55	52	54	57	60	69	62	60	63	66	65	60	62	65	60	62	62	68	68	70	67	72	66	69	67	66	69	67	63.2
Greenville 1 SW	MAX	89	89	93	84	81	80	80	88	90	88	95	90	86	85	91	92	95	98	98	99	98	104	103	95	95	97	92	91	97	88	91	91.7
	MIN	54	62	57	66	50	49	59	56	57	69	66	67	63	72	59	58	58	69	61	61	62	66	69	67	64	72	68	69	68	65	61	62.6
Hannibal Waterworks	MAX	81	81	81	74	76	76	79	82	83	87	90	88	88	81	83	88	89	89	89	87	94	92	97	95	93	90	80	91	94	83	85	86.0
	MIN	64	58	63	59	53	56	62	63	62	65	69	69	68	65	64	65	65	67	65	64	67	72	72	72	70	69	69	69	70	64	60	65.1
Harrisonville	MAX	86	88	85	82	77	77	77	79	83	78	85	92	91	84	85	84	88	91	93	94	93	92	98	97	94	92	88	84	94	92	90	87.5
	MIN	65	63	64	64	55	57	63	63	66	65	67	71	69	67	65	62	64	67	67	70	73	70	71	71	64	72	69	68	66	69	69	66.2
Jackson	MAX	93	92	93	89	83	84	87	89	89	90	95	94	94	86	90	92	95	96	98	96	97	103	101	102	100	97	98	96	96	95	90	93.5
	MIN	55	62	61	65	55	53	62	56	59	70	67	70	64	71	60	59	58	72	63	59	60	65	67	64	66	73	69	69	69	66	63	63.5
Jeff City Radio KWOS	MAX	85	83	82	75	76	77	75	82	83	86	91	90	85	82	83	88	89	92	93	93	93	98	98	95	93	88	86	88	92	87	84	86.8
	MIN	60	61	61	60	50	50	60	57	61	59	64	69	63	64	58	58	62	68	62	65	64	63	62	67	64	69	68	68	64	67	64	62.2
Joplin AP CAA	MAX	91	93	90	75	78	80	78	88	84	89	91	91	81	82	85	87	89	92	95	97	95	97	96	95	91	85	90	90	89	93	91	88.6
	MIN	63	63	66	65	58	56	65	66	65	68	68	70	70	68	65	65	64	69	67	70	70	73	72	68	72	70	70	68	65	68	65	66.7
Kansas City AP WBAS	MAX	87	78	80	77	77	78	80	84	81	85	93	95	86	84	85	90	95	97	97	96	97	100	99	96	93	87	88	95	95	91	88	88.8
	MIN	70	64	64	63	57	60	65	65	69	70	68	76	70	68	67	66	72	69	68	76	77	77	77	78	73	75	70	74	71	72	71	69.7
Kansas City Univ of K.C.	MAX	87	81	81	78	77	78	80	85	81	85	95	93	89	85	85	90	94	97	98	95	96	99	100	97	93	89	87	94	95	96	91	89.4
	MIN	68	63	64	63	49	52	64	64	61	66	66	73	68	66	64	62	64	69	68	70	75	70	77	78	73	79	68	70	67	68	69	66.9
Kidder	MAX	84	78	80	75	76	76	76	84	83	86	89	88	82	80	84	90	93	93	94	93	96	98	99	94	92	88	83	93	94	89	82	86.8
	MIN	64	56	60	58	50	51	59	60	65	66	65	68	70	66	60	63	65	63	65	68	73	70	71	70	66	71	68	68	67	69	69	64.5
Kirksville	MAX	86	79	80	71	80	78	74	87	84	87	91	92	87	84	85	91	90	93	94	94	96	99	98	94		93	80	91	95	87	87	87.6
	MIN	62	53	60	59	51	51	59	60	61	63	66	64	67	66	59	61	64	64	62	66	72	69	71	71		66	67	69	68	63	62	63.2
Kirksville AP CAA	MAX	81	79	80	76	77	76	74	83	84	87	89	90	81	82	84	88	89	90	93	93	93	98	98	94	93	89	80	91	93	84	85	86.3
	MIN	58	56	62	57	52	52	60	62	62	66	69	66	68	62	61	62	63	64	65	67	74	70	70	70	64	70	68	68	69	65	63	63.9
Koshkonong	MAX	90	91	93	78	80	79	82	82	79	86	89	90	86	81	86	89	90	94	96	95	97	99	95	95	94	89	92	94	95	94	92	89.4
	MIN	61	66	62	66	56	56	63	67	63	69	69	68	68	71	66	63	64	68	68	68	68	71	70	70	69	73	72	71	68	67	66	66.6
Lakeside	MAX	85	88	87	82	77	78	78	78	83	84	89	94	91	84	85	85	89	90	94	96	98	95	99	98	95	94	84	90	86	93	89	88.3
	MIN	64	65	64	65	54	54	58	62	62	62	66	70	66	67	63	61	63	65	65	65	67	65	71	68	65	67	70	69	64	68	64	64.4
Lamar	MAX	82	87	87	88	75	75	76	77	82	78	85	90	85	80	79	82	85	86	90	91	92	87	94	92	91	88	83	85	89	89	90	85.2
	MIN	59	65	64	64	56	54	54	63	63	64	67	68	68	67	65	63	62	63	64	64	67	68	69	66	66	67	67	67	63	66	65	64.0
Lathrop 3 SW	MAX	85	75	79	77	78	77	78	84	83	83	90	91	85	84	84	90	93	92	94	95	96	98	98	94	91	87	85	93	95	89	86	87.4
	MIN	65	59	61	60	51	53	61	62	65	66	67	70	68	66	62	62	64	63	63	70	73	71	70	70	70	70	68	68	66	68	69	65.1
Lebanon	MAX	81	87	88	86	72	76	79	79	81	75	89	92	90	80	85	83	87	90	90	95	96	93	99	96	93	92	86	90	87	93	92	87.2
	MIN	59	60	60	63	51	51	55	60	62	62	65	68	65	68	61	58	61	64	63	64	65	66	70	67	64	69	69	68	67	65	62	62.9
Lexington	MAX	86	86	80	82	79	80	80	82	87	85	88	93	92	86	86	88	88	93	94	96	96	96	100	98	96	94	89	86	93	94	91	89.2
	MIN	67	63	63	63	55	58	63	63	66	66	68	71	71	68	65	65	68	68	66	70	76	72	73	76	70	73	69	70	69	71	70	67.5
Licking 4 N	MAX	85	86	86	70	75	75	75	80	80	86	90	87		81	85	85	87	89		92	91		97	92	90	87	87	87	90	87	81	85.1
	MIN	55	59	58	55	49	58	60	58	55	65	63	67		62	59	55	61	59		59	65		63	62	65	67	68	66	61	62	59	60.5
Lockwood	MAX	90	91	88	75	76	79	78	82	77	89	93	89	82	79	84	88	90	93	95	95	94	98	96	93	90	84	82	90	91	92	88	87.5
	MIN	62	64	66	64	55	53	64	63	64	67	69	70	69	70	65	64	64	70	63	68	68	70	70	68	69	70	69	68	64	67	64	65.7
Louisiana Starks Nursery	MAX	85	84	83	79	80	78	78	83	83	89	92	92	90	85	86	89	90	92	91	89	96	96	97	96	94	91	82	91	95	92	87	8.82
	MIN	59	50	60	59	49	48	60	57	58	61	64	65	65	66	55	58	62	70	61	61	67	68	67	70	63	68	69	69	70	65	58	61.9
Macon	MAX	86	84	81	84	76	79	77	77	85	85	87	92	92	86	82	85	91	91	94	95	94	98	100	100	95	94	91	81	92	95	85	88.2
	MIN	72	53	61	59	50	50	59	58	60	61	65	65	67	65	57	62	65	65	63	65	68	69	71	73	68	71	66	68	67	64	61	63.4
Marble Hill	MAX	89	89	91	82	80	84	85	87	90	91	95	91	93	86	89	90	95	96	97	96	98	104	102	103	98	99	100	96	97	95	90	92.8
	MIN	51	69	54	59	49	50	58	50	53	65	61	63	59	66	55	55	56	66	61	58	56	60	65	60	60	67	65	64	63	60	61	59.2
Marshall AP CAA	MAX	85	82	82	77	78	77	79	84	85	89	91	92	86	84	85	87	89	90	94	95	94	99	96	94	94	86	82	94	96	90	86	87.8
	MIN	61	58	61	59	50	58	60	58	61	61	62	67	66	63	59	68	62	64	63	66	71	67	69	71	67	69	66	67	64	68	63	63.4
Marshfield	MAX	86	86	86	70	73	77	76	77	76	85	88	87	85	78	82	83	87	89	92	93	94	95	98	90	89	81	88	87	88	88	86	85.2
	MIN	59	62	62	61	52	55	58	62	64	66	65	69	67	69	63	59	60	69	60	64	65	68	68	64	67	67	68	67	63	65	62	63.4
Maryville	MAX	81	73	72	73	76	74	75	83	83	84	87	83	81	80	82	88	93	91	91	92	90	95	96	93	90	87	87	92	95	87	87	85.2
	MIN	62	55	56	53	50	51	55	59	63	61	60	64	65	67	63	63	65	60	65	70	68	71	71	68	65	69	69	68	67	69	69	63.3
Memphis	MAX	85	81	79	78	77	81	78	76	85	84	89	91	94	79	85	85	92	91	93	95	92	95	98	102	97	95	93	81	93	98	85	88.0
	MIN	56	53	54	59	50	50	53	62	63	63	63	64	64	64	61	62	61	64	64	65	65	68	67	72	66	66	69	68	68	64	61	62.1
Mexico	MAX	86	84	85	83	76	76	80	80	86	87	88	91	91	88	84	86	89	91	92	93	95	97	100	98	96	94	91	90	93	95	89	88.8
	MIN	64	55	62	60	50	52	61	59	62	64	64	68	67	65	57	61	66	66	65	66	67	69	71	72	68	72	69	69	67	66	62	64.0
Moberly AP 4 NE	MAX	82	83	85	82	75		76	77	83	83			91	87	83	85	89	91	96	97	93	99	100	100		96	90	83	93	93	86	88.1
	MIN	62	57	62	61	50		55	56	59	63			69	65	57	63	63	68	64	68	71	78	73	74		70	69	68	68	64	62	64.4
Monett	MAX	86	89	87	85	72	75	75	84	77	75	85	88	86	84	82	80	83	86	88	90	92	92	93	94	90	81	82	85	86	89	90	84.9
	MIN	65	65	66	65	55	55	64	64	64	66	67	68	69	69	65	63	64	64	67	69	76	70	72	67	68	68	72	68	69	66	64	66.2
Mountain Grove	MAX	88	87	88	72	76	75	76	79	75	84	92	91	84	79	84	87	88	93	95	93	95	98	95	93	90	86	88	87	91	91	88	86.7
	MIN	58	62	60	63	50	53	61	63	62	67	67	69	66	68	63	59	64	69	62	66	67	70	71	68	67	70	69	68	64	66	63	64.3
Neosho	MAX	91	91	89	85	78	79	80	87	85	89	92	90	88	82	84	87	89	91	94	94	96	96	95	93	90	85	86	89	90	93	90	88.6
	MIN	58	61	65	67	52	53	65	61	63	65	69	74	67	71	63	62	59	67	61	66	68	68	68	64	66	69	70	66	64	63	62	64.3
Nevada	MAX	90	91	86	78	80	80	78	88	80	89	94	90	87	87	85	89	90	95	96	95	91	98	97	94	91	87	89	93	93	93	90	89.2
	MIN	63	67	65	65	56	54	64	63	63	65	70	69	68	67	67	62	64	71	64	68	71	65	69	68	67	67	70	67	64	67	66	65.6
New Florence AP 1 SE	MAX	83	81	83	74	74	77	76	80	82	86	90	89	86	80	82	87	87	88	89	89	91	96	96	93	91	85	85	89	91	86	84	85.5
	MIN	61	64	61	58	51	53	61	59	61	62	66	68	66	64	59	62	66	68	66	63	66	68	69	68	65	69	68	69	68	66	60	63.6

See reference notes following Station Index

TABLE 5 — Continued
DAILY TEMPERATURE (°FAHRENHEIT)

STATION		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	MEAN
Oregon	MAX	81	67	74	77	72	75	80	85	83	83	89	88	85	83	84	90	95	98	92	90	92	96	95	92	91	86	85	92	94	89	88	86.2
	MIN	66	58	61	57	53	55	61	59	67	63	66	68	67	67	65	64	69	63	63	73	68	69	74	71	69	69	69	70	69	70	69	65.4
Ozark Beach	MAX	88	92	95	95	76	81	83	79	83	78	93	94	94	91	91	89	90	94	93	97	98	96	101	100	95	93	84	92	91	93	95	90.8
	MIN	60	63	66	68	56	52	62	67	68	71	69	70	69	72	68	63	65	67	63	64	66	69	71	65	66	69	69	69	67	69	63	65.9
Polo	MAX	85	83	73	80	75	76	77	77	84	83	84	91	94	85	82	86	89	91	91	92	92	95	97	97	93	91	89	85	93	94	90	86.9
	MIN	66	59	59	60	53	54	61	61	65	65	66	70	64	66	61	63	67	65	65	68	74	71	71	72	66	71	68	69	67	69	68	65.2
Poplar 8luff	MAX	92	93	94	80	84	85	86	89	87	90	92	90	91	83	93	90	92	95	99	96	102	97	99	98	97	95	96	96	99	96	94	92.6
	MIN	58	65	61	69	56	55	59	59	59	69	68	68	66	74	64	63	60	69	62	62	64	67	69	64	65	73	71	70	68	67	66	64.7
Rolla School of Mines	MAX	84	88	80	80	70	73	73	79	80	78	81	81	77	76	79	78	85	89	84	90	94	94	94	94	96	97	84	86	85			83.8
	MIN	59	61	58	58	52	52	57	57	59	62	64	69	64	65	59	60	62	67	64	62	68	66	70	68	68	67	67	69	65	65	62	62.7
Saint Charles	MAX	88	87	88	81	80	80	83	88	88	88	94	93	91	85	89	89	93	94	92	92	97	99	100	99	99	95	91	97	96	90	88	90.8
	MIN	60	58	61	60	54	54	63	61	63	66	68	70	68	67	60	62	65	71	68	65	67	73	72	73	70	71	70	71	73	70	60	65.5
Saint Joseph AP W8AS	MAX	82	68	75	78	79	77	82	87	86	87	91	90	85	84	86	89	95	92	96	95	96	100	99	94	92	85	87	94	97	93	90	88.1
	MIN	67	60	62	60	53	56	61	64	68	67	68	72	69	68	65	64	67	66	65	72	73	74	73	73	69	73	71	71	70	70	70	67.0
Saint Louis AP W8AS	MAX	87	83	86	74	76	80	82	82	85	87	94	91	91	81	84	87	90	90	87	89	97	99	100	99	94	92	89	96	95	87	84	88.3
	MIN	64	61	64	60	56	55	65	62	66	68	69	70	69	67	62	64	68	72	71	71	72	74	73	77	74	76	71	72	73	69	62	67.5
Saint Louis WBO	MAX	86	85	87	75	76	78	82	83	86	87	91	88	89	84	85	84	90	89	89	88	98	97	99	98	97	92	89	95	95	88	86	88.3
	MIN	66	65	68	60	59	62	67	66	68	70	73	75	73	69	66	69	70	73	72	68	69	75	75	78	78	75	73	73	75	70	63	69.7
Saint Louis Univ	MAX	86	84	86	75	77	77	81	82	84	85	90	88	88	83	84	85	90	89	88	87	96	96	97	97	95	91	88	92	92	86	84	87.2
	MIN	66	64	68	61	61	61	67	67	70	72	73	75	72	69	66	68	69	73	71	68	72	75	74	77	77	77	74	73	74	70	63	69.8
Saint Louis Wash Univ	MAX	84	89	84	86	75	76	78	81	85	87	87	94	91	90	84	85	87	91	91	90	91	97	99	100	99	97	95	91	95	95	90	89.2
	MIN	61	58	62	61	55	54	60	60	62	66	68	71	68	68	64	63	65	70	67	64	66	71	71	73	69	72	70	70	72	69	61	65.4
Salem	MAX	84	86	85	87	70	76	79	77	83	83	88	90	83	84	79	83	85	90	90	92	93	92	97	98	93	92	88	90	88	92	88	86.6
	MIN	56	61	57	57	50	50	58	57	57	60	65	69	60	69	58	57	59	66	67	65	65	65	70	66	65	69	69	67	63	65	62	62.0
Salisbury	MAX	86	84	84	80	79	80	79	82	82	90	93	93	89	84	87	90	92	93	96	97	97	101	100	97	95	93	84	93	95	88	90	89.5
	MIN	67	55	62	62	51	52	61	59	62	63	66	69	70	66	59	64	65	67	65	69	73	70	73	72	68	72	68	68	68	67	65	65.0
Saverton Lock Dam 22	MAX	81	83	84	77	75	77	80	81	84	89	90	90	88	81	84	87	90	89	88	91	97	93	93	95	93	91	79	90	93	85	84	86.5
	MIN	65	55	61	60	51	53	61	61	61	63	67	68	63	65	60	61	66	69	64	65	61	71	71	73	67	70	67	68	68	64	60	63.7
Sedalia	MAX	86	85	80	78	75	78	78	85	83	85	91	90	87	82	84	87	88	91	93	94	92	97	95	92	90	84	85	91	91	89	86	86.8
	MIN	57	65	62	62	52	56	63	62	65	64	66	73	67	67	64	65	62	67	66	68	75	70	73	73	70	68	69	69	67	69	68	65.8
Seligman	MAX	85	87	86	76	75	71	74		80	84	86	86	83	74	80	83	86	86	90				92	89	85	83	86	85	85	87	85	83.3
	MIN	61	62	64	64	64	56	61		62	67	69	69	69	67	66	63	62	68	65				68	66	69	68	69	66	66	66	64	65.2
Shelbina	MAX	83			83	79	76	8	84	85	87	93	90	88	80	83	90	90	90	90	94	97	99	100	94	92	90	83	91	95	84	81	87.9
	MIN	58			53	50	51	59	59	61	62	66	61	67	67	58	62	63	62	62	66	68	68	72	71	67	70	69	67	68	64	60	63.1
Sikeston	MAX	87	89	91	92	78	82	82	86	87	89	90	91	89	92	82	90	91	95	97	99	93	96	100	102	101	100	98	100	99	99	92	92.2
	MIN	58	65	63	66	53	53	61	59	61	63	71	70	69	74	62	61	60	69	65	63	62	67	68	67	69	3	2	70	71	65	65	64.9
Springfield AP W8AS 4 NW	MAX	87	90	86	70	73	76	74	77	72	86	90	85	82	79	81	84	87	88	93	92	89	95	95	90	87	79	84	86	91	90	86	84.6
	MIN	61	62	65	60	56	56	63	65	65	68	70	70	68	67	64	62	63	68	64	67	66	70	71	66	67	67	69	67	65	67	62	65.1
Steffenville	MAX	83	83	83	77	78	79	77	85	84	87	91	91	86	85	87	90	90	92	94	90	96	98	98	95	93	93	80	91	94	89	86	87.9
	MIN	63	53	62	60	49	50	60	57	60	60	67	66	67	67	57	60	64	65	61	62	67	67	71	72	67	70	69	68	69	63	58	62.8
Sweet Springs	MAX	88	81	82	78	77	78	77	83	82	85	93	92	85	83	85	89	90	93	95	95	94	100	98	95	92	90	84	92	94	90	85	87.9
	MIN	62	61	62	62	52	53	62	60	63	62	64	68	67	65	61	63	61	65	62	67	73	66	70	70	66	70	67	66	64	67	67	64.0
Tarkio AP CAA	MAX	83		69	78	77	73	80	85	84	87	90	88	87	82	87	90	96	95	93	94	92	99	98	94	92	88	86	94	96	93	91	87.3
	MIN	60	58	59	52	47	52	59	62	68	60	61	64	67	67	65	60	64	56	59	71	66	69	70	67	67	70	68	69	67	67	70	63.2
Trenton	MAX	85	77	81	78	80	77	77	85	85	88	91	89	85	83	86	90	94	94	95	96	96	100	102	96	95	92	83	95	100	92	87	88.8
	MIN	68	57	61	60	52	54	60	64	65	66	67	66	68	67	62	63	64	65	64	68	72	72	72	71	66	71	68	68	69	67	68	65.2
Union 2 SE	MAX	86	84	85	75	77	78	80	81	84	88	92	88	88	82	85	88	90	91	92	90	98	98	100	97	95	92	91	93	94	86	86	88.2
	MIN	57	58	58	60	51	48	62	58	60	63	64	67	63	67	56	57	61	69	63	62	63	64	66	72	64	68	69	66	66	67	60	62.1
Unionville	MAX	86	83	79	76	77	78	78	75	85	86	88	91	92	83	81	85	91	93	93	94	95	96	101	102	96	94	91	86	95	98	86	88.2
	MIN	60	52	58	56	49	51	57	58	60	62	62	61	65	63	59	59	62	61	62	65	70	69	68	69	62	62	65	64	67	61	63	61.3
Vandalia	MAX	82	80	82	77	76	74	75	78	82	87	89	88	88											94	93	89	79	89	92	87	85	
	MIN	62	53	60	58	50	50	60	60	63	64	65	66	66											70	70	66	67	68	67	60	57	
Vichy AP CAA 2 NW	MAX	86	82	84	72	73	75	76	80	83	86	91	87	83	79	81	85	89	89	91	92	90	97	95	94	92	89	86	88	90	84	84	85.6
	MIN	62	61	63	59	54	55	60	60	63	66	68	72	67	66	62	64	65	70	67	66	69	73	74	73	72	68	69	70	67	66	64	65.5
Wappapello Dam	MAX	86	90	91	92	75	81	81	84	86	86	87	90	88	91	81	89	88	93	96	98	97	95	99	99	99	96	95	96	95	96	94	90.8
	MIN	61	66	65	68	57	58	61	60	62	68	69	70	68	73	64	65	64	71	67	66	64	68	66	68	69	73	70	71	72	66	66	66.3
Warrensburg Central T C	MAX	87	85	82	79	77	79	81	86	79	85	92	93	85	85	85	89	91	94	95	96	96	99	99	95	92	88	86	91	93	88	86	88.3
	MIN	67	64	63	63	57	57	65	68	61	65	67	74	69	67	64	65	67	69	68	70	75	70	74	75	71	70	69	70	67	70	69	67.3
Warrenton	MAX	87	82	85	76	76	78	79	82	84	88	92	90	88	82	83	88	89	90	92	90	95	96	98	96	93	92	89	92	95	90	85	87.8
	MIN	58	51	58	59	49	48	61	55	60	62	65	62	66	65	54	57	65	66	63	63	62	67	67	71	64	69	69	69	67	66	57	61.7
Warsaw No 1	MAX	89	87	80	78	78	79	80	83	82	89	93	92	90	87	85	80	90	94	95	96	92	98	97	95	93	84	86	93	93	92	89	88.6
	MIN	60	61	64	65	54	55	64	64	64	64	67	73	67	67	64	66	64	65	62	68	70	65	70	74	72	74	73	70	72	73	70	66.4
Wasola	MAX	95	89	90	81	81	79	78	79	74	87	91	89	87	78	85	88	88	91	93	92	93	103	95	92	91	87	90	89	94	93	90	88.1
	MIN	62	63	62	62	57	56	60	65	63	66	65	65	68	67	64	62	64	66	64	64	66	70	70	66	66	69	67	66	75	64	62	64.6
Webster Groves	MAX	88	87	88	77	79	79	84	85	87	88	93	90	91	85	85	87	92	91	92	91	97	98	101	99	99	93	90	94	94	89	87	89.7
	MIN	57	55	59	60	54	52	62	57	60	64	65	68	65	67	58	60	62	67	65	60	62	67	69	69	65	69	68	68	69	68	58	62.8
Weingarten	MAX	88	85	81	81	73	73	76	78	85	88	93	90	90	83	85	86	92	90	93	92	97	100	99	99	96	96	96	96	94	89	86	88.7
	MIN	57	57	58	60	53	52	60	57	60	67	69	70	65	66	59	61	64	71	68	63	65	71	70	70	70	72	68	66	67	67	60	63.9
West Plains	MAX	90	89	91	74	77	80	80	81	76	87	91	91	85	75	85	85	90	91	94	95	96	98	97	94	93	85	89	93	93	93	90	88.0
	MIN	57	63	57	57	54	52	63	63	63	67	64	66	65	69	64	61	59	64	60	62	62	66	68	62	62	70	70	67	65	64	60	62.7

See reference notes following Station Index

TABLE 5 — Continued

DAILY TEMPERATURE (°FAHRENHEIT)

MISSOURI
AUGUST 1948

STATION		DAY OF MONTH																															MEAN
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Willow Springs	MAX	84	85	84	70	74	77	78	80	78	85	87	88	81	79	81	82	85	87	88	89	90	93	92	90	88	83	85	87	87	87	85	84.2
	MIN	57	65	57	65	56	52	63	64	59	68	63	67	63	68	65	61	60	67	61	65	63	65	69	63	67	70	70	67	65	65	65	63.6

TABLE 6

DAILY EVAPORATION (INCHES) AND WIND MOVEMENT (MILES)

STATION		DAY OF MONTH																															TOTAL	DEPARTURE FROM NORMAL
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
Columbia Univ of Mo.	EVAP	.651	.242	.092	.070	.195	.137	.097	.154	.177	.162	.196	.181	.135	.134	.144	.153	.234	.226	.221	.231	.170	.203	.227	.297	.210	.133	.262	.102	.207	.125	.174	5.942	
	WIND	8	11	1	15	3	3	16	4	16	14	4	10	8	2	1	2	25	20	1	18	13	2	6	23	21	6	13	15	6	13	1	301	
Lakeside	EVAP	.265	.252	.260	.090	.112	.209	.175	.103	.179	.168	.156	.225	.159	.097	.149	.164	.174	.239	.253	.235	.225	.159	.205	.238	.257	.197	.092	.121	.084	.202	.183	5.627	
	WIND	30	29	37	29	30	29	26	28	12	30	21	8	19	14	24	16	6	41	20	14	16	13	11	17	17	17	14	24	12	19	29	652	
Saint Louis Wash Univ	EVAP	.235	.211	.208	.164	.101	.162	.101	.168	.160	.184	.151	.226	.100	.154	.187	.174	.177	.227	.243	.202	.219	.213	.227	.233	.239	.130	.225	.125	.206	.219	.200	5.771	
	WIND	20	19	12	17	9	45	2	3	7	7	7	7	4	10	15	11	9	5	29	1	16	4	4	4	6	5	6	4	7	3	22	320	

TABLE 7

DAILY RIVER STAGES (FEET)

RIVER AND STATION	FLOOD STAGE	DAY OF MONTH																															HIGHEST (OR CREST)	DATE	LOWEST	DATE
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31				
Bourbeuse																																				
Union 2 SE	12	1.4	1.2	1.0	1.1	1.0	.9	.8	.8	.8	.7	.5	.5	.4	.4	.3	.3	.2	.3	.2	.2	.2	.1	.1	.1	.1	.1	.5	.4	.4	.4	.3	1.4	1	.1	22+
Meramec																																				
Sullivan 3 NE	11	2.0	2.0	1.8	2.0	2.0	1.9	1.9	1.8	1.8	1.7	1.7	1.7	1.7	1.6	1.6	1.6	1.6	1.6	1.5	1.5	1.5	1.5	1.4	1.4	1.4	1.4	1.5	1.8	1.5	1.4	1.5	2.0	1+	1.4	23+
Valley Park	14	.1	.0	.2	.2	.3	.3	.4	.5	.6	.7	.8	.9	1.0	1.0	1.1	1.1	1.1	1.1	1.2	1.2	1.3	1.4	1.4	1.4	1.4	1.5	1.4	1.0	1.2	1.2	1.3	1.5	26	.0	2
Mississippi																																				
Hannibal	13	10.1	10.2	9.9	10.2	10.0	9.9	9.9	9.9	9.7	9.9	9.8	9.9	10.1	9.8	10.1	10.1	9.9	9.9	9.9	10.0	10.0	10.0	10.0	10.1	9.9	9.8	10.1	10.1	10.0	9.9	10.2	10.2	2+	9.7	9
Saint Louis WBO	30	15.6	15.8	17.3	16.9	15.3	14.2	14.0	12.9	11.4	9.4	7.6	6.0	5.0	6.2	6.3	6.0	6.1	6.2	6.1	6.1	6.4	6.6	5.3	4.0	3.6	3.7	3.8	3.9	3.9	3.8	2.9	17.6	3	2.9	31
Cape Girardeau	32	23.6	22.0	21.7	22.3	22.2	21.1	20.3	20.1	19.4	18.3	17.0	15.9	14.6	13.5	13.6	13.9	13.8	13.8	13.9	13.9	13.9	14.1	14.3	13.8	12.8	12.1	12.0	12.0	12.1	12.1	12.0	23.6	1	12.0	27+
Thompson Fork																																				
Trenton	20	3.6	3.5	3.8	4.0	3.8	3.6	3.7	4.0	3.9	3.7	3.5	3.8	3.7	3.8	3.6	3.7	3.6	3.7	4.0	4.2	4.0	3.8	3.6	3.5	3.5	3.4	3.5	3.5	3.5	3.4	3.6	4.2	20	3.4	26+
Grand																																				
Gallatin	20		3.0	4.1	4.3	3.5	3.7	4.2	2.9	2.9	2.8	3.1	4.7	4.3	4.7	3.7	3.2	4.2	3.4	3.0	2.8	2.7		2.6			2.5		2.4				4.7	12+	2.4	28
Chillicothe 2 S	18	4.7	4.6	4.8	4.5	5.1	5.0	4.8	4.6	4.5	4.3	4.1	4.0	6.0	4.9	5.0	4.6	4.4	4.8	4.6	4.2	4.4	4.2	4.0	3.9	3.8	3.8	3.8	3.7	3.6	3.6	3.5	6.0	13	3.5	31
Brunswick	12	11.7	10.2	8.8	9.9	9.7	8.4	8.0	7.4	6.7	6.0	6.0	5.6	6.1	6.3	7.1	7.6	7.5	7.4	7.4	7.0	6.0	5.9	5.8	5.8	5.5	5.1	4.8	4.6	4.2	4.0	4.0	11.7	1	4.0	30+
Osage																																				
Osceola	22	23.5	23.7	23.6	22.0	19.7	16.8	12.9	6.6	4.6	4.2	3.3	3.3	3.3	4.8	5.3	5.0	4.6	4.5	4.3	4.1	2.4	3.3	2.2	1.2	3.0	2.6	1.2	2.3	2.5	1.6	3.5	23.7	2	1.2	24+
Warsaw No 2	31	32.7	32.5	32.8	32.2	31.3	30.4	29.5	28.4	28.2	28.0	27.9	27.7	27.6	27.6	27.7	27.9	27.9	27.8	27.8	27.8	27.8	27.7	27.7	27.4	27.2	26.9	26.6	26.2	26.2	25.8	25.7	32.8	3	25.7	31
Lakeside		61.2	61.1	61.2	61.2	60.9	60.6	60.2	59.9	59.9	59.8	59.7	59.5	59.4	59.4	59.5	59.6	59.7	59.6	59.6	59.5	59.5	59.5	59.5	59.2	58.9	58.6	58.3	58.0	57.9	57.9	57.6	61.2	1+	57.6	31
Saint Thomas	23	21.6	21.8	21.6	21.6	21.7	19.8	18.2	14.5	6.8	5.9	5.6	5.9	5.4	5.0	2.1	1.8	4.6	5.2	5.0	5.2	4.6	2.2	2.1	7.2			7.6	7.4		2.4	6.7	21.8	2	1.8	16
Gasconade																																				
Jerome	15	3.0	2.2	2.2	2.4	2.4	2.4	2.3	2.3	2.3	2.2	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.9	1.9	1.9	1.8	1.8	1.8	1.8	1.8	1.9	1.9	2.0	2.0	3.0	1	1.8	23+
Missouri																																				
St. Joseph AP WBAS	17	14.0	13.1	14.2	12.7	11.6	11.0	10.9	10.6	10.2	9.9	10.5	10.7	11.6	12.2	12.2	12.1	12.1	11.6	10.7	10.4	10.6	10.8	10.5	9.9	9.5	9.5	9.3	9.2	9.2	9.1	9.1	14.2	3	9.1	30+
Kansas City AP WBAS	22	15.0	13.4	14.3	14.2	13.4	13.0	12.1	11.4	10.7	10.4	10.1	10.8	10.7	11.7	12.0	11.8	11.8	11.9	11.2	10.6	10.2	10.4	10.3	10.0	9.7	9.4	9.2	9.0	8.8	8.9	8.7	15.0	1	8.7	31
Waverly	18	18.5	16.7	16.1	17.3	16.7	15.2	15.0	13.6	13.2	12.5	12.1	12.1	12.6	13.1	14.2	14.4	14.2	14.2	13.9	13.0	12.4	12.3	12.2	12.1	11.5	11.1	10.8	10.5	10.3	10.1	10.0	18.5	1	10.0	31
Boonville	21	16.9	16.6	14.8	15.0	15.7	14.7	13.5	13.0	11.9	11.2	10.6	10.2	10.6	11.0	11.4	12.2	12.4	12.3	12.3	11.9	11.0	10.4	10.3	10.3	10.1	9.7	9.4	9.2	8.8	8.6	8.5	16.9	1	8.5	31
Hermann	21	17.8	19.4	19.0	17.9	18.0	18.3	17.0	16.0	14.4	12.5	11.5	11.0	10.6	10.8	11.0	11.0	11.5	11.9	11.8	11.8	11.5	11.0	10.2	10.0	10.7	10.7	10.6	10.4	10.4	9.5	9.1	19.4	2	9.1	31
Saint Charles	25	19.4	20.4	22.8	23.5	22.8	23.1	22.9	20.0	19.4	18.9	18.4	15.4	15.0	14.6	14.2	13.9	15.1	15.7	15.9	16.3	16.2	15.4	15.0	14.1	13.7	13.5	13.6	14.3	14.1	13.9	13.6	23.5	4	13.5	26
Current																																				
Doniphan 2 W	12	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.4	2.1	2.2	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.9	1.9	1.9	1.9	1.9	2.0	1.9	1.9	2.4	14	1.9	24+
Black																																				
Leeper	11	2.2	2.2	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.2	1+	1.9	18+
White																																				
Forsyth		1.0	1.0	1.0	1.0	2.5	1.0	1.0	.9	.9	.9	.9	1.2	1.8	10.7	9.0	9.6	14.5	10.7	7.1	6.1	5.6	.9	1.0	.9	1.0	.9	.9	.9	.9	2.2	.8	14.5	17	.8	31
St. Francis																																				
Fisk	20	6.6	4.0	2.4	1.8	1.7	1.6	1.5	3.4	7.0	8.1	7.5	4.8	2.8	1.8	1.6	1.4	1.4	3.0	6.5	7.2	5.4	3.1	1.9	1.5	1.4	1.3	1.3	1.9	5.0	5.5	5.0	8.1	10	1.3	26+
Mississippi																																				
New Madrid	34	22.0	20.7	18.7	16.4	15.8	16.0	15.7	14.8	14.3	14.0	13.6	13.0	12.3	11.9	10.9	9.8	9.5	9.8	9.4	9.0	8.2	7.9	7.8	7.8	7.8	7.6	7.4	6.8	6.2	6.2	6.2	22.0	1	6.2	29+
Caruthersville	32	20.7	19.9	18.3	16.1	14.7	14.8	14.6	14.0	13.4	13.0	12.7	12.1	11.5	10.9	10.3	9.0	8.2	8.3	8.1	7.8	7.0	6.5	6.4	6.4	6.4	6.1	5.9	5.4	4.6	4.4	4.3	20.7	1	4.3	31

The following reference notes apply only to Table 7 - Daily River Stages:

Readings are made approximately 7 a.m. (Local time). They are provisional and subject to correction. Final and corrected stages will be published in the annual publication "Daily River Stages - Principal Rivers of the United States".

a	Obstructed by rough ice.	f	Shore ice.
b	Frozen but open at gage.	g	Floating ice.
c	Upper surface of smooth ice.	h	Pool stage.
d	Ice gorge above gage.	i	Dry at gage.
e	Ice gorge below gage.	j	Interpolated.

STATION INDEX

STATION	INDEX NO.	COUNTY	DRAINAGE	LAT. °	LAT. '	LONG. °	LONG. '	ELEV. (FT.)	TIME OF OBSERVATION ZONE			YEARS OF RECORD TEMP.			OBSERVER	REFER TO TABLES
									ZONE	TEMP.	PRECIP.	TEMP.	PRECIP.	EVAP.		
Advance AP	0022	Stoddard	St. Francis	37	06	89	55	354	C	MID	MID	11	11		U.S.Airway Com. Sta.	2 3 4 5
Albany	0051	Gentry	Grand	40	15	94	20	930	C	6P	6P	7	19		William J. Butler	2 3 5
Alton 10 mi. SE	0122	Oregon	Black	36	41	91	24		C		6P		7		Dr. J. D. Brock	3
Alton 6 mi. ENE	0127	Oregon	Black	36	42	91	19		C				8		Loyd E. Black	3 4
Altona	0135	Bates	Osage	38	24	94	13		C		8A		12		Ina Chitty	3
Amity	0143	DeKalb	Grand	39	52	94	26	1620	C	6P	6P	2	13		O. M. Colbour	2 3 5
Amsterdam	0151	Bates	Osage	38	21	94	35		C				8		R. A. Kershner	3 4
Anderson 2 mi. SW	0164	McDonald	Neosho	36	39	94	21	1000	C	7A	7A	44	49		Samuel G.Chamberlain	2 3 5
Annapolis	0179	Iron	Black	37	20	90	47		C		7A		4		Opal G. Rutter	3
Appleton City	0204	St. Clair	Osage	38	13	94	05	800	C	6P	6P	53	56		F. Paul Eye	2 3 4 5
Arcadia	0224	Iron	St. Francis	37	35	90	37	926	C	7A	7A	67	70		Arcadia College	2 3 5
Ashton	0312	Clark	Mississippi	40	27	91	49		C						E. E. St.Clair	3 4
Auxvasse	0357	Callaway	Missouri	39	01	91	54		C		7A		5		C. H. Hook	3
Ava Ranger Sta	0365	Douglas	White	36	57	92	40		C		8A		3		U.S. Forest Service	3
Bedford	0503	Livingston	Grand	39	42	93	23		C				8		Harry S. Stephans	3 4
Belleview	0539	Iron	Meramec	37	41	90	44		C		7A		12		Edna M. Keesling	3 4
Bernie	0595	Stoddard	St. Francis	36	40	89	58		C		7A		3		Allie Wilmuth	3
Bethany	0608	Harrison	Grand	40	15	94	02	916	C	6P	6P	53	55		B. A. McGregor	2 3 5
Birch Tree	0668	Shannon	Black	36	59	91	30	1000	C	5P	7A	53	54		Mildred E. Catlett	2 3 5
Black 9 mi. NW	0695	Iron	Black	37	36	91	03	1000	C	7P	7P	55	55		J. Cornell Shy	2 3 5
Bloomfield	0735	Stoddard	St. Francis	36	54	89	57		C		7A		3		H. L. Ray	3
Blue Lick	0747	Saline	Saline	38	59	93	12		C		7A				W. H. Jocoby	3
Bolivar	0789	Polk	Osage	37	37	93	25	1071	C	5P	5P	45	53		SW Baptist College	2 3 4 5
Boonville	0812	Cooper	Missouri	38	58	92	45		C		7A		71		Rufus W. Weed	3 7
Boonville Waterworks	0817	Cooper	Missouri	38	58	92	45	650	C	8A	8A	10	10		Boonville Water Dept	2 3 5
Bowling Green	0856	Pike	Mississippi	39	21	91	12		C		8A		18		Virgil Cook	3
Bradleyville	0878	Taney	White	36	46	92	53		C		7A		3		Elmer C. Hubbard	3
Brookfield	0980	Linn	Grand	39	47	93	05	767	C	8A	8A	7	7		G. F. Breen	2 3 5
Browning 3 mi. NE	1003	Linn	Grand	40	03	93	06		C		7P		5		Herman F. Kille	3
Brunswick	1037	Chariton	Grand	39	26	93	08	652	C	7A	7A	67	69		O. K. Benecke	2 3 5 7
Buffalo	1087	Dallas	Osage	37	38	93	05		C		8A		17		L. H. Howerton	3
Bunker	1101	Reynolds	Black	37	30	91	15		C		7A		4		C. D. Higbley	3
Burlington Junction	1141	Nodaway	Missouri	40	26	95	04		C		7A				U. S. Reavis	3
Butler	1145	Bates	Osage	38	16	94	20	865	C	6P	6P	2	7		Harley W. Johnson	2 3 5
Camdenton	1212	Pulaski	Osage	38	03	92	47	940	C	4P	4P	2	2		Mo. Conserv. Com.	2 3 5
Campbell	1221	Dunklin	St. Francis	36	29	90	04	314	C	5P	5P	22	22		Ruth Christian	2 3 5
Canton Lock & Dam 20	1275	Lewis	Mississippi	40	08	91	31	488	C	7P	7A	10	18		Lockmaster	2 3 5
Cap Au Gris Lock & Dam 25	1283	Lincoln	Mississippi	39	00	90	41		E		7A		2		U.S. Engineers	3 4
Cape Girardeau Mo. State	1291	Cape Girardeau	Mississippi	37	18	89	32	347	C	5P	5P	3	3		State Teachers Col.	2 3 5
Cape Girardeau	1296	Cape Girardeau	Mississippi	37	18	89	32		C		7A		48		Lee L. Albert	3 7
Caplinger Mills	1304	Cedar	Osage	37	48	93	49		C	6P	6P		22		S. E. Price	2 3 5
Carrollton	1340	Carroll	Missouri	39	22	93	30	754	C	6P	6P	2	2		Harold E. Finley	2 3 5
Carthage	1356	Jasper	Spring	37	11	94	17	962	C	6P	6P	14	24		Carthage W&E Plant	2 3 5
Caruthersville	1364	Pemiscot	Mississippi	36	17	89	40	265	C	5P	7A	52	56		Victor T. Malloure	2 3 5 7
Cassville Ranger Sta	1383	Barry	White	36	41	93	52		C		8A		8		J. Alice Quillinan	3 4
Centerville	1467	Reynolds	Black	37	26	90	57		C		7A		3		Corda Jane Harrison	3
Centerville Ranger Sta	1472	Reynolds	Black	37	26	90	57		C		8A		12		U.S. Forest Service	3
Centralia	1482	Boone	Mississippi	39	12	92	08		C		8A		12		Earl W. Seymour	3
Chadwick	1490	Christian	White	36	56	93	03		C		7A		2		Sylvia Fletcher	3
Chillicothe 2 mi. S	1580	Livingston	Grand	39	45	93	33	771	C		7A		33		H. O. Dupy	3 7
Chillicothe AP CAA	1585	Livingston	Grand	39	47	93	30		C	MID	MID	39	42		U.S.Airway Com.Sta.	2 3 5
Clarksville Lock & Dam 24	1640	Pike	Mississippi	39	22	90	55		E						U.S. Engineers	3 4
Clearwater Dam Site	1674	Wayne	Black	37	08	90	47	648	C	4P	7A		8		U.S. Engineers	2 3 4 5
Clifton City	1704	Cooper	Missouri	38	45	93	02		C		7A				F. S. Needy	3
Clinton	1711	Henry	Osage	38	22	93	46	786	C	MID	MID	55	61		U.S. Weather Bureau	2 3 4 5
Columbia AP WBAS	1790	Boone	Missouri	38	58	92	22		C	MID	MID		8		U.S. Weather Bureau	
Columbia WBO	1795	Boone	Missouri	38	57	92	20	740	C	MID	MID	58	58		U.S. Weather Bureau	2 3 4 5
Columbia Univ of Mo.	1800	Boone	Missouri	38	59	92	28		C	5P	5P		4	4	Robert E. Lee	2 3 4 5
Conception	1822	Nodaway	Missouri	40	14	94	40	1108	C	5P	5P	59	64		Fr. Adelheim Hess	2 3 5
Concordia	1837	Lafayette	Missouri	38	59	93	34	783	C		7A		31		Lloyd Beissenberz	3
Cook Station	1870	Crawford	Meramec	37	48	91	27		C		7A		4		Thos. J. Gorman	3
Crane Mountain	1980	Iron	St. Francis	37	27	90	38		C		9A		4		Roy E. Thomlison	3
Crocker	2004	Pulaski	Osage	37	59	92	15		C		6P		17		Charles Iden	3
Crystal City	2031	Jefferson	Mississippi	38	13	90	23	420	C	5P	5P	14	14		Richard K. Ragland	2 3 5
Cuba	2043	Crawford	Meramec	38	04	91	24		C		7A		11		Rehm E. Thielecke	3
Deering	2156	Pemiscot	St. Francis	36	12	89	52		C		7A		6		Thomas N. Wood	3
De Sota	2220	Jefferson	Mississippi	38	09	90	34		C		7P		4		Roy E. Dewey	3
Dexter	2235	Stoddard	St. Francis	36	47	89	58		C		6A		24		J. L. Jackson	3
Doniphan	2289	Ripley	Black	36	37	90	49	344	C	6P	6P	44	44		Boyce Lackey	2 3 5
Doniphan 2 mi.W	2294	Ripley	Black	36	37	90	51		C		7A		3		Geo Baumgardner	3 7
Dora	2302	Ozark	White	36	46	92	13		C				8		Alta M. Deupree	3 4
Downing	2318	Schuyler	Mississippi	40	29	92	20		C		5P		7		Edward L. Beeler	3 4
East End	2406	Iron	Meramec	37	41	91	02		C		7A		4		C. O. Smith	3
Edgerton	2474	Platt	Missouri	39	30	94	37	856	C	7A	7A	28	45		Leroy H. Mindrup	2 3 5
Edina	2482	Knox	Mississippi	40	10	92	10		C		7A		19		Paul D. Pettit	3
Eldon	2503	Miller	Missouri	38	20	92	35	934	C	5P	5P	53	49		Arthur Rothwell	2 3 5
Eldorado Springs	2511	Cedar	Osage	37	52	94	01		C		6P		18		Clyde J. Snodgrass	3
Elijah	2519	Ozark	White	36	36	92	09		C		7A		3		Loyd Price	3
Ellington	2547	Reynolds	Black	37	14	90	59		C		7A		8		S. Phronia Sanders	3 4
Ellsinore	2563	Carter	Black	36	56	90	45		C		5P		4		Clinton Sheets	3
Elsberry	2591	Lincoln	Mississippi	39	10	90	47	449	C	8A	8A	17	17		Soil Conserv. Serv.	2 3 5
Eminence	2617	Shannon	Black	37	11	91	23	1250	C				7		Thomas J. Chilton	3 4
Fairfax	2729	Atchison	Tarkio	40	20	95	24		C						Dillard A. Price	3
Farmington	2809	St. Francois	St. Francis	37	47	90	26	896	C	7P	6A	37	51		F. M. Karsch	2 3 4 5
Fayette	2823	Howard	Missouri	39	09	92	41	760	C	6P	6P	68	65		Irvin E. Schnell	2 3 5

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STATION	INDEX NO.	COUNTY	DRAINAGE	LAT.		LONG.		ELEV. (FT.)	TIME OF OBSERVATION			YEARS OF RECORD			OBSERVER	REFER TO TABLES
				°	'	°	'		ZONE	TEMP.	PRECIP.	TEMP.	PRECIP.	EVAP.		
Fisk	2881	Butler	St. Francis	36	47	90	12		C		7A		18		Charles E. Hargrove	3 7
Forsyth	2975	Taney	White	36	41	93	06		C		7A		8		Otto Kenyon	3 4 7
Fredericktown	3038	Madison	St. Francis	37	33	90	17		C		7A		23		R. H. Leslie	3
Fremont Tower	3052	Carter	Black	37	08	91	20		C		8A				Tbelman Palmer	3
Fulton	3079	Callaway	Missouri	38	51	91	57	818	C	8A	8A	60	56		Frank E. Hillgartner	2 3 4 5
Galena	3094	Stone	White	36	48	93	28		C		7A		36		Maynard L. Stewart	3
Gallatin	3102	Daviess	Grand	39	55	93	57		C		7A		46		S. C. Poe	3 7
Gerald	3178	Franklin	Meramec	38	24	91	20		C		6P		7		Edwin H. Vernner	3
Granhy	3341	Newton	White	36	55	94	15		C		7A		4		Mildred B. Hatcher	3
Grant City	3369	Worth	Grand	40	29	94	25	1134	C	6P	6P	44	56		J. Homer Korn	2 3 4 5
Greenville 1 mi. SW	3451	Wayne	St. Francis	37	06	90	27	415	C	5P	7A	39	41		C. L. Rubottom	2 3 5
Hailey	3537	Barry	White	36	42	93	43		C		6P		27		William Madison	3
Hamden	3565	Chariton	Chariton	39	36	92	47		C				8		Mary M. White	3 4
Hannihal	3596	Marion	Mississippi	39	42	91	20	759	C		7A		6		P. B. Stelmann	3 7
Hannihal Waterworks	3601	Marion	Mississippi	39	41	91	20	759	C	MID	MID	56	64		Hannihal Water Dept.	2 3 5
Harris	3641	Sullivan	Grand	40	18	93	22		C				8		John E. Miller	3 4
Harrisonville	3649	Cass	Osage	38	39	94	20	904	C	7A	7A	70	73		Jeffrey B. Patterson	2 3 5
Hermann	3793	Gasconade	Missouri	38	42	91	25		C		7A		74		Josepb G. Rehsamen	3 7
High Lookout	3845	Shannon	Black	36	53	91	27		C		6P		4		John Scoville	3
Hornersville	3999	Dunklin	St. Francis	36	03	90	06		C				8		Sallie E. Perkins	3 4
Houston	4021	Texas	Gasconade	37	20	91	53		C				8		Austin McKinney	3 4
Jackson	4226	Cape Girardeau	Mississippi	37	23	89	40	428	C	5P	5P	57	58		Danny Siebert	2 3 5
Jeff City Radio KWOS	4271	Cole	Missouri	38	35	92	12	557	C	6P	7A	58	66		KWOS Radio Farm	2 3 5
Jefferson City	4276	Cole	Missouri	38	34	92	11		C		7P		7		Rohert R. Henderson	3 4
Jerome	4291	Phelps	Gasconade	37	56	91	59		C		7A		46		G. A. Brinkley	3 7
Jewett	4299	Madison	St. Francis	37	23	90	29		C				8		Fred Goelkel	3 4
Joplin AP CAA	4315	Jasper	Neosho	37	10	94	30	988	C	MID	MID	26	43		U.S. Airway Com. Sta	2 3 5
Kahoka	4349	Clark	Mississippi	40	25	91	43		C		8A		19		Wesley E. Hayden	3
Kansas City AP WBAS	4359	Jackson	Missouri	39	07	94	35	741	C	MID	MID	59	59		U.S. Weather Bureau	2 3 4 5 7
K. C. Mo. St. John&Elmwood	4364	Jackson	Missouri	39	06	94	32		C		MID		6		Lester Applegate	3 4
K. C. Mo. 75th&Holmes	4369	Jackson	Missouri	39	00	94	35		C		MID		6		Lester Applegate	3 4
K. C. Mo. 37th&Raytown Rd	4374	Jackson	Missouri	39	03	94	30		C		MID		6		Lester Applegate	3 4
Kansas City Univ. of K. C.	4379	Jackson	Missouri	39	02	94	35	908	C	6P	6P	10	10		Univ. of Kansas City	2 3 4 5
Kidder	4481	Caldwell	Grand	39	47	94	06	1020	C	7P	7A	56	60		Geraldine Terry	2 3 5
King City	4505	Gentry	Missouri	40	03	94	31	1095	C		6P		40		Jobn M. Martin	3
Kirksville	4544	Adair	Mississippi	40	12	92	34	969	C	6P	6P	59	66		Dow Jones	2 3 5
Kirksville AP CAA	4549	Adair	Mississippi	40	06	92	33	966	C	MID	MID	9	9		U.S. Airway Com. Sta	2 3 4 5
Koshkonong	4625	Oregon	Black	36	35	91	39	958	C	6P	7A	47	48		Genevieve T. Smith	2 3 5
La Belle	4637	Lewis	Mississippi	40	07	91	55		C		8A		18		James M. Fisbback	3
Lakeside	4694	Miller	Osage	38	12	92	37	595	C	7A	7A	17	17	15	W. S. Frame	2 3 4 5 6 7
Lamar	4705	Barton	Neosho	37	30	94	16	980	C	7A	7A	60	67		Marie Mann	2 3 5
Lampe Forest Service	4727	Stone	White	36	34	93	26		C		7A		7		Orley F. Scott	3
Lampe 4 mi. NNE	4732	Stone	White	36	38	93	24		C						Mrs. Addis O. Rogers	3 4
Lathrop 3 mi. SW	4773	Clinton	Grand	39	32	94	22	1080	C	6P	6P	1	1		E. L. Fisber	2 3 5
Lebanon	4825	Laclede	Osage	37	42	92	45	1265	C	7A	7A	60	61		Rosa E. Montelius	2 3 4 5
Lecoma 3 mi. N	4828	Dent	Meramec	37	49	91	44	1140	C						R. W. McCracken	3 4
Leeper	4844	Wayne	Black	37	04	90	42		C		7A		23		Orville A. Roberts	3 7
Lexington	4904	Lafayette	Missouri	39	11	93	53	688	C	7A	7A	63	64		William H. Cullon	2 3 5
Licking 4 mi. N	4919	Texas	Gasconade	37	29	91	52	1170	C	6P	7A	11	11		Fern E. Austin	2 3 5
Linneus	4978	Linn	Grand	39	50	93	12		C		5P		7		Merle Wade	3 4
Livonia	5014	Putnam	Chariton	40	29	92	42		C				8		Icel M. Tade	3 4
Lockwood	5027	Dade	Osage	37	23	93	57	1078	C	6P	7A	42	52		Huhert A. Nieman	2 3 4 5
Louisiana Starks Nur	5093	Pike	Mississippi	39	26	91	02	469	C	6P	6P	54	67		Stark Bros.Nurseries	2 3 5
Louisiana	5098	Pike	Mississippi	39	27	91	03		C		7A		5		Crewdson W.Dillender	3
Lucerne	5121	Putnam	Grand	40	27	93	18		C		9A		7		D. A. Browning	3 4
Macedonia Lookout	5164	Ripley	Black	36	45	90	54		C		7A		4		Roy C. Robinett	3
Macon	5175	Macon	Chariton	39	45	92	28	875	C	7A	7A	49	55		John W. Atwell	2 3 4 5
Madison	5183	Monroe	Mississippi	39	28	92	12		C		8A		14		Enos Wood	3
Malden	5205	Dunklin	St. Francis	36	34	89	57		C				7		Rollie H. Kennard	3 4
Mansfield	5227	Wright	White	37	06	92	35		C		7A		3		Henry O. Brown	3
Marble Hill	5253	Bollinger	Mississippi	37	18	89	59	532	C	5P	5P	53	55		R. A. DeWitt	2 3 5
Marshall	5293	Saline	Missouri	39	07	93	11	779	C			61	58		Thomas A. Reid	2 3 5
Marshall AP CAA	5298	Saline	Missouri	39	06	93	12		C	MID	MID		8		U.S. Airway Com. Sta	2 3 4 5
Marsbfield	5307	Wehster	White	37	20	92	54	1484	C	5P	5P	3	7		Sbo-Me Power Co.	2 3 5
Martinsburg	5319	Audrian	Missouri	39	06	91	41		C		7A		4		H. Freese	3
Maryville	5340	Nodaway	Missouri	40	21	94	52	1169	C	6P	6P	58	54		R. B. Montgomery	2 3 5
Maryville 6 mi. NNW	5345	Nodaway	Missouri	40	25	94	53	1160	C						Earl W. Trueblood	3 4
McCredie	5410	Callaway	Missouri	38	58	91	58		C				8		Lelia B. Craig	3 4
McCredie Exp Station	5415	Callaway	Missouri	38	57	91	54		C		MID		8		U. S. Soil Conserv.	3 4
Mempbis	5492	Scotland	Mississippi	40	27	92	10	787	C	7A	7A	9	18		John W. Alexander	2 3 5
Mercer 6 mi. NW	5519	Mercer	Grand	40	33	93	35		C		7A				Oscar L. Hartley	3
Mexico	5541	Audrain	Mississippi	39	10	91	53	800	C	7A	7A	59	70		D. N. Woods	2 3 5
Middletown	5565	Montgomery	Mississippi	39	07	91	26		C						Mary M. Angel	3 4
Milan	5578	Sullivan	Grand	40	12	93	07		C		7A		25		Charles E. Smitb	3
Moherly AP 4 mi. NE	5671	Randolph	Mississippi	39	28	92	25	860	C	8A	8A	11	11		Rohert J. Platter	2 3 4 5
Monett	5700	Barry	Neosho	36	53	93	55	1317	C	7A	7A	1	1		M. U. Fruit Exp. Sta	2 3 5
Monroe City	5708	Monroe	Mississippi	39	39	91	44		C		SS		25		J. S. Conway	3
Mora	5754	Benton	Missouri	38	32	93	13		C				8		Emma M. Meyer	3 4
Morehouse	5762	New Madrid	Mississippi	36	51	89	41		C		4P		37		J. A. Spence	3
Moselle	5816	Franklin	Meramec	38	23	90	54		C		8A		3		A. Lampert	3
Mountain Grove	5834	Wright	Gasconade	37	09	92	16	1463	C	5P	8A	47	1		M. U. Fruit Exp. Sta	2 3 4 5
Mount Vernon	5861	Lawrence	Neosho	37	06	93	49	1174	C	5P	7A	36	48		John C. Heying	2 3 5
Neosho	5976	Newton	Neosho	36	52	94	22	1011	C	5P	5P	61	65		U.S. Fisheries Sta.	2 3 5
Nevada	5987	Vernon	Osage	37	50	94	21	862	C	6P	6P	55	56		Henry Kraft	2 3 4 5
New Florence AP 1 mi. SE	6007	Montgomery	Missouri	38	53	91	26	885	C	MID	MID	5	6		U.S.Airway Com. Sta.	2 3 4 5

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				°	'	°	'		ZONE	TEMP.	PRECIP.	TEMP.	PRECIP.	EVAP.		
New Madrid	6040	New Madrid	Mississippi	36	35	89	31		C		6A		54		Wess Hensley	3 7
Oates Tower	6263	Reynolds	Black	37	32	91	03		C		7A		3		Ethel Sue Adams	3
Odessa	6269	Lafayette	Missouri	39	00	93	57		C		7A				William E. Dougherty	3
Oregon	6357	Holt	Missouri	39	59	95	09	1093	C	MID	MID	92	92		James M. Curry	2 3 5
Osceola	6407	St. Clair	Osage	38	05	93	42		C		7A		7		Sam H. Simmons	3 4 7
Owensville	6438	Gasconade	Gasconade	38	21	91	30		C		8A		5		A. C. Poppenhouse	3 4
Ozark	6452	Christian	White	37	01	93	13		C		7A		3		William L. Reed	3
Ozark Beach	6460	Taney	White	36	40	93	07	700	C	8A	8A	8	23		Empire Dist. Elec. Co	2 3 5
Pacific	6468	Franklin	Meramec	38	29	90	44		C		7A		59		Arthur D. Lewis	3
Palmyra	6493	Marion	Mississippi	39	48	91	31		C		8A		42		Dan Hamlin House	3
Paris	6509	Monroe	Mississippi	39	29	92	00		C		8A		18		J. W. Reed	3
Parma	6532	New Madrid	St. Francis	36	37	89	48		C		7A		24		Laura E. Morgan	3
Pattonsburg	6563	Daviess	Grand	40	03	94	09		C				8		Wade D. Moody	3 4
Perry	6633	Ralls	Mississippi	39	25	91	41		C		5P		18		Guy R. Milton	3 4
Perryville	6641	Perry	Mississippi	37	44	89	51		C		6P		7		Werner T. Weber	3
Philadelphia	6667	Marion	Mississippi	39	50	91	44		C		4P		15		Lynn S. Feaster	3
Pierce City	6678	Lawrence	Neosho	36	57	94	00		C		5P		4		John P. Davis	3
Pineview Lookout	6700	Barry	White	36	42	93	37		C		8A				Charles M. Miller	3
Pleasant Hill	6748	Cass	Osage	38	48	94	17		C		6A		10		Dean T. Knorpp	3
Polo	6775	Caldwell	Missouri	39	33	94	03	1000	C	7A	7A	2	2		F. B. Albright	2 3 4 5
Poplar Bluff	6791	Butler	Black	36	45	90	24	339	C	7A	7A	43	44		Osmon M. Richardson	2 3 5
Potosi	6826	Washington	Mississippi	37	55	90	47		C				8		Arthur M. Riehl	3 4
Puxico	6934	Stottard	St. Francis	36	37	90	09		C		7A		3		Treval Pearman	3
Qulin	6970	Butler	St. Francis	36	36	90	14		C		7A		3		Torrence J. Johns	3
Reynolds	7094	Reynolds	Black	37	24	91	05		C		7A		4		Effie V. Hill	3
Richwoods	7122	Washington	Meramec	38	09	90	50		C		7A		5		Elma M. DeClue	3 4
Ridgeway	7130	Harrison	Grand	40	22	93	57		C				6		Keith Jackson	3 4
Roby	7214	Texas	Gasconade	37	30	92	08		C		6P		6		Roy E. Daniels	3
Rogersville	7255	Webster	White	37	07	93	03		C						Gladys C. Shockley	3 4
Rolla School of Mines	7263	Phelps	Gasconade	37	57	91	46	1202	C	9A	9A	48	64		Rolla School of Mines	2 3 4 5
Rolla 5 mi. SE	7264	Phelps	Meramec	37	54	91	43	1100	C						Walter W. Snelson	3 4
Rolla Missouri 3 mi. W.	7265	Phelps	Gasconade	37	57	91	50	865	C						Leslie H. Underwood	3 4
Rolla 4 mi. SE	7266	Phelps	Meramec	37	56	91	43	1040	C						Mrs. Hallen P. Light	3 4
Rolla 7 mi. S	7267	Phelps	Meramec	37	51	91	46	970	C						Gertrude Ponzer	3 4
Round Spring	7309	Shannon	Black	37	18	91	25		C		7A		4		C. E. Jones	3
Saint Charles	7397	St. Charles	Missouri	38	47	90	29	520	C	6P	7A	60	70		Myrtle Briegel	2 3 5 7
Saint James 3 mi. NW	7424	Phelps	Meramec	38	01	91	40	1005	C						William S. Jones	3 4
Saint Joseph AP WBAS	7440	Buchanan	Missouri	39	46	94	55	957	C		6A	38	76		U.S. Weather Bureau	2 3 4 5 7
Saint Louis AP WBAS	7455	Saint Louis	Missouri	38	45	90	23	556	C	MID	MID	11	17		U.S. Weather Bureau	2 3 4 5
Saint Louis WBO	7460	Saint Louis City	Mississippi	38	38	90	12	465	C		7A	111	111		U.S. Weather Bureau	2 3 4 5 7
Saint Louis Univ.	7465	Saint Louis City	Mississippi	38	38	90	14	578	C	MID	MID	36	36		St. Louis University	2 3 5
Saint Louis Wash. Univ.	7470	Saint Louis City	Mississippi	38	39	90	18		E	8A	8A		8	10	John Hopp, R.L. Brust	2 3 4 5 6
Saint Thomas	7497	Saint Louis City	Osage	38	22	92	13		C		7A		7		John Morff	3 7
Salem	7506	Dent	Meramec	37	38	91	33	1206	C	7A	7A	44	47		E. E. Martin	2 3 4 5
Salisbury	7514	Chariton	Chariton	39	26	92	48	723	C	6P	6P	2	2		David H. Robertson	2 3 5
Saverton Lock & Dam 22	7578	Ralls	Mississippi	39	38	91	16	472	C	7P	7A	10	10		Lockmaster	2 3 5
Sedalia	7632	Pettis	Missouri	38	42	93	14	910	C	5P	7A	35	37		Dr. J. E. Cannaday	2 3 5
Seligman	7645	Barry	Neosho	36	31	93	56	1542	C	7P	7A	47	45		Floyd E. Fawver	2 3 5
Seneca	7656	Newton	Neosho	36	50	94	57		C				3		Hosea N. Harrison	3 4
Seymour 4 mi. NE	7674	Webster	White	37	09	92	46	1642	C	7A	7A	42	42		Ira H. Hailey	2 3 5
Shelbina	7720	Shelby	Mississippi	39	42	92	03	779	C	6P	6P	7	55		Guyman Hatcher	2 3 5
Shelbyville	7728	Shelby	Mississippi	39	48	92	02		C		5P		17		Emmett L. Goe	3
Shell Knob	7740	Barry	White	36	37	93	35		C		8A		3		Lionel Jung	3
Sikeston	7770	Scott	Mississippi	36	53	89	35	318	C	7A	7A	41	51		Lucy W. Humphreys	2 3 5
Siloam Springs	7780	Howell	White	36	48	92	04		C		7A		4		Bess M. Byers	3
Skidmore	7813	Nodaway	Missouri	40	17	95	05		C				8		Nina B. Geyer	3 4
Spring City	7967	Newton	Neosho	37	00	94	32		C				8		Gladys J. Cameron	3 4
Springfield AP WBAS 4 mi.NW	7976	Greene	Osage	37	14	93	23	1265	C	MID	MID	60	60		U.S. Weather Bureau	2 3 4 5
Stanberry	8003	Gentry	Grand	40	12	94	33		C				6		R. Trueman Wagers	3 4
Steelville	8043	Crawford	Meramec	37	59	91	22		C		7A		7		William Diehl	3 4
Steffenville	8051	Lewis	Mississippi	39	58	91	53	650	C	6P	6P	50	55		Fannie V. Gross	2 3 4 5
Stover	8112	Morgan	Missouri	38	26	93	02		C		7A		24		H. Kyle Vickery	3
Sugar Camp Lookout	8160	Barry	White	36	32	93	50		C		8A				Ralph L. Richardson	3
Sullivan 3 mi. NE	8171	Washington	Meramec	38	13	91	06		C		7A		7		George J. Hussman	3 4 7
Summersville	8184	Texas	Black	37	11	91	40		C		7A		4		Roy W. Wall	3
Sweet Springs	8223	Saline	Missouri	38	58	93	25	700	C	6P	6P	7	7		H. F. Nelson	2 3 5
Tarkio AP CAA	8289	Atchison	Missouri	40	27	95	22	916	C	MID	MID	45	54		U.S. Airway Com. Sta.	2 3 4 5
Tecumseh	8313	Ozark	White	36	35	92	17		C		7A		3		Tom Chandler	3
Topaz	8412	Douglas	White	36	56	92	12		C		8A		4		C. M. Loyd	3
Trenton	8444	Grundy	Grand	40	05	93	37	822	C		7A	52	53		W. H. Estes	2 3 4 5 7
Troy	8456	Lincoln	Mississippi	38	59	90	59		C		7A		17		Robert L. Nichols	3
Union 2 mi. SE	8515	Franklin	Meramec	38	27	91	00	520	C	6P	7A	10	31		Cornelius Sieges	2 3 5 7
Unionville	8523	Putnam	Chariton	40	38	93	00	1062	C	6A	6A	55	55		George D. Choate	2 3 5
Valley Park	8561	Saint Louis	Meramec	38	33	90	30		C		7A		31		Nathaniel W. Henlon	3 7
Van Buren	8569	Carter	Black	36	59	91	01		C		7A		11		Merle A. Smith	3
Vandalia	8577	Audrain	Mississippi	39	19	91	30	766	C	5P	5P	4	9		Naomi K. Stoutz	2 3 5
Vanzant	8585	Douglas	White	36	56	92	16		C		7A		4		C. D. Smith	3
Vichy 2 mi. SE	8612	Maries	Meramec	38	05	91	44	1040	C						Virginia F. Huffman	3 4
Vichy AP CAA 2 mi. NW	8614	Maries	Gasconade	38	08	91	46	1125	C	MID	MID	12	13		U.S. Airway Com. Sta.	2 3 5
Villa Ridge	8630	Franklin	Missouri	38	29	90	55		C				8		Vincent Hellman	3 4
Waco	8664	Jasper	Spring	37	15	94	36		C		7A		2		Lester O. Sigars	3
Wappapello Dam	8700	Butler	St. Francis	36	55	90	17	475	C	8A	8A	9	9		U.S. Engineer Office	2 3 4 5
Warrensburg Central T C	8712	Johnson	Missouri	38	46	93	44	878	C	5P	5P	61	68		Central Teachers Col.	2 3 5
Warrensburg 5 mi. E	8717	Johnson	Missouri	38	45	93	39		C				8		Leah P. Prussing	3
Warrenton	8725	Warren	Mississippi	38	49	91	08	880	C	5P	5P	66	58		W. T. Zimmerman	2 3 4 5

STATION INDEX — Continued

STATION	INDEX NO.	COUNTY	DRAINAGE	LAT. °	LAT. ′	LONG. °	LONG. ′	ELEV. (FT.)	TIME OF OBSERVATION			YEARS OF RECORD			OBSERVER	REFER TO TABLES
									ZONE	TEMP.	PRECIP.	TEMP.	PRECIP.	EVAP.		
Warsaw No. 1	8733	Benton	Osage	38	15	93	21	687	C	5P	7A		53		Dora Johnson	2 3 5
Warsaw No. 2	8738	Benton	Osage	38	15	93	21		C		8A		31		Ruth A. Pierce	3 7
Washington	8746	Franklin	Missouri	38	31	91	00		C				8		Joe Ludewig	3 4
Wasola	8754	Ozark	White	36	48	92	34	1294	C	7P	7A	7	8		A. W. Pinckney	2 3 4 5
Waverly	8768	Lafayette	Missouri	39	13	93	31		C		8A		33		Gene Hardwick	3 7
Waynesville 2 mi. E	8777	Pulaski	Gasconade	37	50	92	11	805	C	7P	7P	2	2		Fred M. Sanderson	3
Webster Groves	8791	Saint Louis	Mississippi	38	35	90	22	507	C	7P	7P	2	3		R. W. Lawrie	2 3 5
Weingarten	8799	Saint Genevieve	Mississippi	37	53	90	13	833	C	5P	5P	7	8		William J. Miller	2 3 5
West Plains	8880	Howell	Black	36	44	91	51	1005	C	MID	MID	11	11		U.S. Weather Bureau	2 3 4 5
Williamsville	8984	Wayne	Black	36	58	90	33		C		7A		24		George W. Julian	3
Willow Springs	8995	Howell	White	36	59	91	59	1238	C	6P	7A	7	41		Allen Frazee	2 3 4 5
Willow Springs Forest S	9000	Howell	Black	36	59	91	59		C				6		U.S. Forest Service	3
Windsor 3 mi. NW	9032	Henry	Osage	38	34	93	33		C		6A				Logan Sutherland	3
Zalma	9173	Bollinger	Mississippi	37	09	90	04		C		7A		11		Louis A. Dobbs	3

REFERENCE NOTES

The four digit identification numbers in the index number column of the Station Index are assigned on a State basis. There will be no duplication of numbers within a state.

Stations appearing in the Index, but for which data are not listed in the tables, are either missing or received too late for inclusion in this issue.

Delayed data and corrections will be carried only in the June and December issues of this bulletin.

When hourly precipitation is missing for several days, only the first and last days are shown in Table 4.

Data in Tables 3, 5 and 6 are for the 24 hours ending at time of observation. See the Station Index for observation time.

-	No record.
+	And also on later dates.
*	Amount included in following measurement, time distribution unknown.
//	Gage is equipped with wind shield.
6	Precipitation measured at 6-hourly intervals, on recording gage.
M	One or more days of record missing. See Table 5 for detailed daily record.
R	Station equipped with recording gage only. All amounts in Table 3 are for the non-recording gages, except for stations with this reference.
T	Trace, an amount too small too measure.
Z	Hourly amounts from recording gage at the same site may be found in Table 4.
SS	This entry in time of observation column in Station Index means observation made near sunset.

Table 4 data formerly published in Missouri River, Upper Mississippi, Lower Mississippi West Gulf, and South Pacific Hydrologic Bulletins. Amounts in this tables are from recording pages. Traces are not shown.

Subscription Price: 15¢ per copy; $1.50 a year. (Yearly subscription includes Annual Summary). Correspondence regarding subscriptions should be addressed to the Weather Records Processing Center, 811 Fidelity Building, Kansas City, Missouri.

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CLIMATOLOGICAL DATA

MISSOURI

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UNIVERSITY OF ILLINOIS

SEPTEMBER 1948
Volume LII No. 9

WASHINGTON: 1948

JAN 24 1949

MISSOURI - SEPTEMBER, 1948

H. F. Wahlgren, Section Director - Saint Louis

GENERAL SUMMARY

Mild, dry, sunny weather characterized the month of September over most of Missouri and all crops matured satisfactorily under these favorable weather conditions and the absence of frost or freezing temperatures.

Except for September a year ago the current month was the warmest month of that name since 1941 and it was the first month this year, since April, averaging warmer than normal, for the State as a whole. Daily temperatures averaged above normal during the first decade, except for a brief cool period from about the 8th to 10th, and below normal during the last 10 days, as a rule. There were no unusual extremes of temperature recorded during the month and no freezing occurred anywhere in the State. All divisions of the State had monthly averages in excess of their respective normals, as follows: Northern, 70.1°, +2.3°; Southwestern, 70.5°, +0.7°; Southeastern, 70.6°, +0.4°; for the State, 70.4°, +1.1°. A few stations in each division had below-normal temperature averages for the month, these being mostly in the southern half of the State.

Precipitation during September was decidedly deficient over the Southwestern Division and averaged considerably less than normal over both the Northern and Southeastern Divisions. Monthly averages, with departures from normal, were as follows: Northern, 2.34 inches, -1.85 inches; Southwestern, 1.74 inches, -2.55 inches; Southeastern, 2.39 inches, -1.25 inches; for the State, 2.17 inches, -1.87 inches. This was the driest September since 1940, for the State as a whole. The distribution of the rainfall during the month was very irregular, ranging from a total of 5.63 inches at Sikeston, to only 0.06 inch at Seligman. As a rule, the greater portion of the month's precipitation occurred on the 7th-8th, after which there was very little rainfall, particularly over much of the Southwestern Division. There was no snowfall reported anywhere in the State during the month.

No floods or destructive storms occurred during the month. However, there was some minor local damage to power and communication lines at Springfield on the 7th, during a heavy thunderstorm. Three cows were reported killed by lightning near Clifton City on the 21st. Heavy fog formed, locally, on the 2d, 3d, 5th, 6th, 9th, 10th, 21st, 22d and 30th. Light hail fell at High Lookout on the 3d, at Bolivar on the 6th, and at King City on the 20th.

The warm, dry weather during most of September was generally ideal for maturing of the corn, soybean, and cotton crops but it was mostly too dry for plowing and seeding of fall grains, as a rule. The bulk of the corn was safe from frost damage by the close of the month and some picking had begun. A record yield was anticipated. Soybeans matured nicely and were about ready for harvesting by the end of September, with record yields expected. Cotton bolls opened rapidly during the month and picking was in progress as the month ended; the crop was unusually good. Pastures declined some due to the dry weather but were still better than usual at this time of year. Some small grains were sown during the month but the surface moisture was generally too deficient for seeding on a large scale. Haying and threshing were completed by the middle of the month and apple harvest was underway the latter half. Gardens and truck crops were in good condition and still producing at the end of September as no frost or freezing had occurred up to that time. More moisture was needed to prepare the ground and for seeding of small grain crops and for pastures as the month closed.- MRW

TEMPERATURE

The monthly mean for the State, 105 stations reporting, was 70.4°, or +1.1° warmer than normal. The highest monthly mean was 73.1° at Warsaw and Caruthersville, and the lowest was 68.3° at Elsberry. The highest reported was 100° at St. Charles on the 20th, and the lowest was 37° at Tarkio on the 27th and 28th.

PRECIPITATION

The average for the State, based on reports from 105 reporting stations, was 2.17 inches, or 1.87 inches less than normal. The greatest monthly amount was 5.63 inches at Sikeston, and the least was 0.06 inch at Seligman. The greatest amount reported in an observational day was 2.53 inches at Bolivar on the 7th. The average number of days with 0.01 inch, or more, was 5.

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ACKNOWLEDGMENTS

In addition to the climatological data from some 6,000 Weather Bureau and cooperative weather stations, this bulletin series contains records from Hydroclimatic Network Stations which were formerly reproduced in the Hydrologic Bulletin Series. The Hydroclimatic Network is a nationwide net of rain gages--mostly of the recording type which produce continuous records of precipitation. It was established in 1939 at the request of the Corps of Engineers, Department of the Army, to supplement existing precipitation stations in order to provide records of rainfall intensity which were essential to the planning of flood control and related works by the Corps of Engineers. This Network, now numbering about 2,000 recording, and 1,000 non-recording rain gages, has been maintained by the Weather Bureau through working funds transferred annually to the Weather Bureau by the Corps of Engineers. These transfers averaged about $250,000 per year between 1940 and 1944, and nearly $375,000 since that date. For the years 1940-42, the Department of Agriculture transferred about $100,000 per year to provide data required in its work, and since 1947 the Bureau of Reclamation has transferred about $25,000 per year to meet the increasing needs of their program in the Western States.

Previous to the introduction of this bulletin series, data from Hydroclimatic Network stations were presented in bulletins (Hydrologic Bulletins) which were issued monthly for each of 8 drainage areas embracing the entire United States, but since the Network was established to meet the internal requirements of the Federal agencies referred to above, no provision was made for public dissemination of the data, distribution being limited to cooperating agencies and to certain public repositories. A list of locations where reference copies of the Hydrologic Bulletin Series are available for inspection may be obtained upon application to Chief, U. S. Weather Bureau, Washington 25, D. C.

Many other records published in this bulletin have been made available through the cooperation of various public offices, private agencies, and individuals as listed in the Station Index.

PRESSURE, WIND, HUMIDITY, SUNSHINE, DEGREE DAYS

STATIONS	SEA LEVEL PRESSURE EXTREMES—INCHES				WIND				RELATIVE HUMIDITY AVERAGES				SUN-SHINE	
	HIGHEST	DATE	LOWEST	DATE	AVERAGE SPEED M.P.H.	MAXIMUM SPEED M.P.H.	DIRECTION	DATE	1:30A EST	7:30A EST	1:30P EST	7:30P EST	PERCENT OF POSSIBLE	DEGREE DAYS 65° BASE
Columbia WB City	30.45 a	26	29.76 a	21	5.9	18	NE	28	82 a	90 a	58 a	63 a	75	31
Kansas City WB Airport	30.49	26	29.67	20	8.8	26	N	8	72	82	48	47	85	13
St. Joseph WB Airport	30.50	26	29.67	20	6.8	26	SW	17	79	88	53	58	75	24
St. Louis WB City	30.42 a	26	29.76 a	21	9.5	28	N	8	77 a	81	50	57 a	76	16
Springfield WB Airport	30.42	26	29.71	22	9.0	42	N	7	84	90	53	62	84	42

a - airport data

TABLE 1
COMPARATIVE DATA

YEAR	TEMPERATURE			PRECIPITATION		
	MEAN	HIGHEST	LOWEST	AVERAGE	AVERAGE SNOWFALL	DAYS WITH .01 OR MORE
1888	65.2	97	28	1.01	0	4
1889	64.7	94	32	4.68	0	11
1890	63.7	98	30	4.36	0	9
1891	70.6	104	34	0.72	0	6
1892	67.8	97	32	2.46	0	4
1893	69.9	107	26	4.07	0	6
1894	68.5	101	34	4.94	0	8
1895	71.8	104	24	2.38	0	4
1896	65.0	101	28	4.09	0	10
1897	74.3	105	27	0.67	0	2
1898	70.9	103	37	6.70	0	9
1899	67.4	108	21	1.96	0	4
1900	71.1	100	29	4.59	0	10
1901	68.9	103	27	2.16	0	6
1902	63.2	95	30	4.63	0	10
1903	66.6	98	32	4.16	0	8
1904	69.6	96	34	3.77	0	7
1905	69.6	98	41	7.40	0	10
1906	71.9	98	36	4.53	0	11
1907	68.9	101	31	2.06	0	6
1908	71.6	99	28	2.15	0	4
1909	68.7	105	28	4.48	0	8
1910	69.5	97	34	5.45	0	10
1911	73.7	105	39	6.27	0	11
1912	68.6	105	27	3.11	0	6
1913	69.4	109	27	4.75	0	9
1914	69.6	99	35	6.06	0	9
1915	70.6	98	34	5.18	0	7
1916	67.8	101	27	2.97	0	6
1917	67.9	101	33	2.76	0	5
1918	62.3	96	29	4.83	0	7
1919	71.4	104	38	3.14	0	5
1920	70.0	100	31	4.60	0	9
1921	73.4	104	34	6.94	0	13
1922	71.7	107	31	3.10	0	5
1923	68.7	98	33	4.44	0	11
1924	64.0	96	29	3.79	0	8
1925	74.6	110	45	6.56	0	10
1926	69.3	97	27	8.64	0	13
1927	71.6	102	29	3.72	0	8
1928	65.0	95	28	2.50	0	5
1929	67.4	98	33	3.16	0	8
1930	71.3	105	37	4.28	0	8
1931	75.0	104	36	3.91	0	7
1932	67.8	99	33	2.56	0	6
1933	74.6	102	36	4.69	0	9
1934	65.6	95	32	7.39	0	12
1935	68.1	98	33	3.51	0	6
1936	73.6	109	37	8.62	0	11
1937	69.4	103	29	2.41	0	5
1938	71.6	103	30	1.85	0	6
1939	75.5	108	30	0.81	0	2
1940	68.8	100	28	0.69	0	3
1941	71.6	97	35	5.83	0	9
1942	67.4	97	22	4.19	0	7
1943	65.8	102	33	3.51	0	8
1944	69.1	100	36	2.82	0	6
1945	69.4	103	36	9.46	0	14
1946	68.0	97	32	2.24	0	6
1947	71.9	109	31	3.83	0	5
1948	70.4	100	37	2.17	0	5
PERIOD	69.4	110	21	4.01	0	8

Table 2

CLIMATOLOGICAL DATA

MISSOURI
SEPTEMBER 1948

Station	Temperature								Precipitation									
							No. of Days						Snow, Sleet, Hail			No. of Days		
	Average	Departure from Normal	Highest	Date	Lowest	Date	Max. 90° or above	Min. 32° or below	Total	Departure from Normal	Greatest Day	Date	Total	Max. Depth on Ground	Date	.01 or more	.25 or more	1.00 or more
Northern Division																		
Albany	70.5		97	19	40	28	14		2.49	- 3.06	1.11	8	0			5	3	1
Amity	70.8		94	19 +	43	28	7		2.41	- .33	1.25	21	0			5	2	1
Betbany	69.4	2.3	96	19	39	27	6		2.23	- 2.33	1.09	8	0			5	3	1
Brookfield	71.7		98	20	46	9	14		2.71		1.35	21	0			3	2	2
Brunswick	70.9	3.9	95	20 +	48	24 +	10		2.73	- 2.08	1.60	8	0			5	3	1
Canton Lock & Dam No. 2	70.5	1.9	92	18	46	9	7		2.36	- 1.38	1.03	21	0			6	2	1
Carrollton	70.0		95	19 +	45	25	6		3.55		1.72	8	0			4	2	2
Chillicothe AP CAA	69.9	2.4	96	19	44	27	9		2.56	- 2.22	1.35	20	0			6	2	2
Columbia WB Airport	69.7	0.3	93	20	47	25 +	2		2.50	- 1.85	1.30	8	0			5	2	2
Columbia WB City	70.8	1.4	93	19 +	49	25	4		2.52	- 1.83	1.31	8	0			5	2	2
Columbia Univ. of Mo.	69.6		94	19 +	43	25	3		1.82		.90	21	0			5	2	
Conception	71.5	4.3	95	19	47	26 +	10		2.23	- 2.41	1.04	8	0			4	4	1
Edgerton	69.8	1.9	95	20 +	40	26 +	10		2.34	- 2.25	1.09	8	0			5	2	2
Elsherry	68.3	- 1.0	96	21	38	27	8		2.09	- .91	.86	21	0			5	3	
Fayette	70.2	2.1	93	19 +	47	26	6		2.44	- 2.52	1.42	8	0			4	2	1
Fulton	68.8	- 0.1	94	20	46	24	4		1.80	- 2.69	1.02	8	0			4	2	1
Grant City	70.5	3.5	96	19	44	25 +	6		2.12	- 2.57	1.00	8	0			5	3	1
Hannibal Waterworks	69.4	1.7	93	19 +	48	23 +	4		1.69	- 2.28	.89	8	0			5	3	
Kansas City WB Airport	72.6	3.7	95	20	48	26	8		1.88	- 1.94	1.42	8	0			7	1	1
Kidder	70.4	3.1	96	19	45	25 +	6		2.13	- 3.07	1.13	8	0			5	2	1
Kirksville	70.3	4.0	95	19	45	24	7		2.20	- 2.98	1.27	21	0			4	2	1
Kirksville AP CAA	69.0		94	19	44	28	4		2.01		1.09	20	0			4	2	1
Lathrop 3 SW	70.2		94	19 +	45	26 +	7		2.21		1.20	22	0			3	2	1
Louisiana Starks Nur.	70.0	2.0	95	19 +	40	24 +	10		1.39	- 3.04	.71	8	0			4	2	
Macon	68.9	1.0	94	20	43	27 +	6		2.13	- 2.31	1.07	7	0			7	2	1
Maryville	69.4	3.8	94	19	47	26 +	4		3.12	- 1.56	1.15	9	0			5	4	2
Memphis	69.9		94	21	45	27 +	10		3.12	- 1.06	1.92	21	0			5	2	1
Mexico	70.0	1.5	95	20 +	44	25 +	7		1.62	- 3.35	.77	8	0			7	2	
New Florence AP 1 SE	68.5		92	19 +	44	25	4		2.48		1.30	8	0			5	2	1
Oregon	71.1	4.0	95	19	47	26	5		2.25	- 2.85	1.20	8	0			4	2	1
Polo	69.8		94	20 +	43	29	6		2.29		1.14	22	0			3	2	2
Saint Charles	72.7	4.4	100	20	48	25 +	13		3.06	- .78	1.03	9	0			8	4	1
St. Joseph WB Airport	71.5	3.1	96	1	46	26 +	10		1.51	- 2.41	.91	8	0			6	2	
Salisbury	71.1		95	19 +	45	25 +	9		3.03		1.94	8	0			4	3	1
Saverton Lock & Dam	69.6		94	19	47	24 +	5		1.41	- 2.14	.60	21	0			7	3	
Shelhina	69.7		95	19	44	25 +	6		2.26	- 2.68	1.80	8	0			4	2	1
Steffenville	69.9	0.9	94	19 +	45	24 +	4		2.07	- 2.43	.98	8	0			5	2	
Tarkio AP CAA	69.2 m	2.9	96	1 +	37	27 +			2.60	1.64	1.63	7	0					
Trenton	71.4	4.2	98	19	45	26	10		2.44	- 2.31	1.64	21	0			6	2	1
Unionville	68.5	1.4	96	20	43	26 +	8		4.17	- .92	2.23	21	0			4	2	2
Vandalia	69.3		93	18 +	43	26	5		1.59		.88	21	0			5	2	
Warrenton	69.3	0.3	95	19 +	39	25	8		2.92	- 1.44	1.20	21	0			6	3	2
Division	70.1	2.3							2.34	- 1.85								
Southwestern Division																		
Anderson 2 SW	68.7	- 2.3	93	23	38	27	9		.15	- 3.73	.11	24	0			2		
Appleton City	71.0	0.6	95	20	45	30	11		1.22	- 3.16	.58	7	0			4	2	
Bolivar	71.2	1.3	92	19 +	46	25	7		2.66	- 1.55	2.53	7	0			2	1	1
Boonville Waterworks	68.6	0.3	92	20 +	44	25	2		2.20	- 2.99	1.22	8	0			6	2	1
Butler	69.1 m								2.37							6		1
Camdenton	71.3 m								.78		.35	7	0			3	2	
Caplinger Mills	69.5		92	20	43	26	2		3.09	- .63	2.50	7	0			4	2	1
Carthage	71.2		93	10 +	41	27	11		.99		.90	7	0			2	1	
Clinton	70.7	- 0.1	96	20	47	25	11		1.66	- 2.86	.72	8	0			4	3	
Eldon	70.2 m	0.8	93	19 +	44	25	6		1.26	- 3.36	.58	8	0			5	2	
Harrisonville	71.2	2.7	95	21	47	25	6		1.53	- 3.37	1.11	8	0			5	2	1
Jefferson City Radio KWO	69.5	0.2	94	20	42	25	4		2.04	- 2.19	1.16	8	0			7	2	1
Joplin AP CAA	71.9	- 0.2	94	20	45	25	13		.98	- 2.94	.57	7	0			4	2	
Kansas City University of K.C.	71.9	1.4	95	20	45	26	8		2.21	- 1.59	1.62	8	0			5	1	1
Lakeside	70.7	- 0.3	94	20 +	43	25	12		.91	- 3.49	.33	21	0			4	3	
Lamar	68.9	- 1.9	90	4 +	45	27 +	3		2.53	- 2.02	2.14	7	0			4	1	1
Lebanon	69.8	0.4	94	16 +	40	27	10		.86	- 3.63	.77	7	0			3	1	
Lexington	72.0	3.2	95	21	48	25 +	10		3.02	- 1.75	1.51	8	0			6	3	1
Lockwood	70.7	- 0.2	94	20	44	26 +	8		1.68	- 3.10	1.30	7	0			4	1	1
Marshall AP CAA	69.7	0.9	96	19	44	27	8		2.67	- 2.83	1.03	21	0			6	3	1
Marsbfield	69.1		90	20	43	25	1		2.01		2.00	7	0			2	1	1
Monett	70.1		90	20 +	44	27	3		1.22		1.22	7	0			1	1	1
Mountain Grove	69.7	0.8	92	20 +	42	26 +	3		1.67	- 2.39	1.30	7	0			5	1	1
Neosbo	70.5	0.0	94	23	39	27	10		1.38	- 2.91	.66	7	0			3	2	
Nevada	72.0	2.5	94	20	47	25 +	14		2.87	- 1.44	1.79	7	0			5	3	1
Ozark Beach	72.1		98	20	43	27	16		.96	- 2.23	.69	7	0			4	1	
Sedalia	70.8	1.6	92	19 +	44	26	3		1.73	- 3.17	1.02	8	0			4	2	1
Seligman	69.5	- 0.1	92	22	44	27	3		.06	- 3.62	.06	7	0			1		
Springfield WB Airport	69.3	0.9	91	19	44	26 +	2		2.64	- .88	2.51	7	0			4	1	1
Sweet Springs	70.4 m		95	19 +	42	25	6		2.28		1.42	8	0			5	2	1
Warrenshurg Central T. C.	72.0	1.8	93	15 +	47	25 +	7		2.25	- 2.53	1.61	8	0			5	2	1
Warsaw No. 1	73.1	2.6	94	19 +	46	27	10		1.78	- 3.25	.86	9	0			3	3	
Wasola	70.8		95	20	45	24 +	8		1.84		1.59	7	0			3	1	1
Division	70.5	0.7							1.74	- 2.55								

See reference notes following Station Index.

CLIMATOLOGICAL DATA

Table 2–Continued

Station	Temperature								Precipitation									
							No. of Days						Snow, Sleet, Hail			No. of Days		
	Average	Departure from Normal	Highest	Date	Lowest	Date	Max. 90° or above	Min. 32° or below	Total	Departure from Normal	Greatest Day	Date	Total	Max. Depth on Ground	Date	.01 or more	.25 or more	1.00 or more
Southeastern Division																		
Advance AP	69.1	- 0.7	94	2	46	10	7		4.86	2.22	1.60	5	0			5	3	3
Arcadia	69.4	1.8	97	21	40	25	14		2.11	- 1.87	.75	29	0			4	3	
Birch Tree	69.2	- 0.6	94	20	44	24 +	8		2.28	- 1.40	1.18	7	0			4	3	1
Campbell	70.7	- 0.9	93	20	49	30	6		3.52	- .35	1.22	5	0			6	4	1
Cape Girardeau Mo. State T.C.	71.9		94	2	50	24	7		3.37	- .64	1.48	5	0			5	4	1
Caruthersville	73.1	- 1.4	92	3	53	26 +	7		4.45	1.24	1.48	5	0			7	4	2
Clearwater Dam Site	71.0		95	20	47	25 +	9		1.80		.57	7	0			7	3	
Crystal City	70.8	1.9	98	19 +	40	27	14		1.24	- 2.14	.44	5	0			6	3	
Doniphan	70.2	- 1.0	97	8	43	24 +	12		2.26	- 1.35	.71	5	0			6	4	
Farmington	69.9	0.3	96	20	44	24	9		1.08	- 2.72	.51	6	0			5	2	
Greenville 1 SW	70.5	- 0.3	94	19	42	24 +	11		2.38	- .94	.74	7	0			5	3	
Jackson	71.3	1.2	95	2	47	10 +	12		2.66	- 1.36	1.08	5	0			6	4	1
Koshkonong	72.1	0.7	95	21	48	24 +	11		1.53	- 2.11	.94	7	0			5	2	
Licking 4 N	69.9 m	0.9							2.26	- 2.28	1.23	7	0			4	2	1
Marble Hill	68.8	- 1.9	95	2 +	39	25	13		4.08	.20	1.35	5	0			7	4	1
Poplar Bluff	72.0	0.3	95	2 +	48	24	14		3.47	- .42	1.07	29	0			6	5	1
Rolla School of Mines	69.7 m	1.0	95	21	44	24 +	5		.57	- 3.57	.28	7	0			4	1	
St. Louis WB Airport	71.1	2.3	95	19 +	50	24 +	9		1.71	- 2.66	.54	29	0			7	3	
St. Louis WB City	72.7	2.2	95	19 +	51	26	6		2.50	- .96	1.05	8	0			8	4	1
St. Louis University	72.3	1.4	94	19 +	52	24 +	6		2.15	- 1.61	.89	8	0			9	3	
St. Louis Washington Univ.	71.7	1.3	98	21	49	24 +	9		1.85	- 1.45	.41	9	0			8	5	
Salem	68.7	- 0.5	93	20 +	38	27	6		.84	- 3.04	.36	7	0			5	1	
Sikeston	71.3	0.2	93	3 +	47	24 +	6		5.63	1.75	1.66	5	0			8	6	2
Union 2 SE	69.0	- 0.1	97	19	38	27	9		1.18	- 3.01	.38	20	0			8	1	
Vichy AP CAA 2 NW	70.0		94	19 +	44	24 +	3		.60		.15	7	0			5		
Wappapello Dam	71.8		94	3	50	24 +	7		3.71	.70	1.06	7	0			6	5	1
Webster Groves	70.2		97	20	45	24 +	11		2.47		.77	21	0			7	4	
Weingarten	70.9		97	20	43	24	9		1.32		.78	5	0			3	2	
West Plains	69.2	0.2	96	20	44	24 +	12		1.67	- 1.47	.96	7	0			6	1	
Willow Springs	68.8		91	20	48	10 +	2		2.09	- 1.99	1.34	7	0			5	2	1
Division	70.6	0.4							2.39	- 1.25								
State	70.4	1.1							2.17	- 1.87								

See reference notes following Station Index

DAILY PRECIPITATION

Table 3

Station	Day of Month																															Total
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Advance AP r			.13	T	1.60	T	1.56																					1.54		.03		4.86
Alhany	T	.15					.23	1.11		T										.63	.37											2.49
Altnn 6 ENE r			.33		.39		.53																					.40				1.70
Altnna			T				.45	1.25													T											1.70
Amity		.17	.01					.94	.04												1.25											2.41
Amsterdam r						.22	.29	.92													.05											1.48
Anderson 2 SW							.04																	.11								.15
Annapolis			T	.01	.14	.48	.70	.07	.01												.01								.04			1.46
Appletnn City z						.04	.58	.51													.09											1.22
Arcadia				.51	T	.82	T	.23																					.75			2.11
Ashtnn r	.35							1.00	.02											1.12	.02											2.51
Auxvasse		T			.06			.79													.88								.12	.05		1.90
Bedford r								1.11												1.60	.06											2.77
Belleview z				T	T	.78	.11	.02														T								.46		1.37
Bsrnte					T	1.94	.33	.39																				T	1.92			4.58
Bethany		.08					.26	1.09		.16										T	.64											2.23
Birch Tres					T	.52	1.18	.18																					.40			2.28
Black 9 NW						-	-	-	-												T	-						-	.83			--
Bloomfield				.66	.96	1.46	.53	.30																					1.17			5.08
Bnlivar z					.13		2.53														T							T				2.86
Bonnville							.05	1.17	.02												.78									.09		2.16
Bnnnville Waterwnrks		.04	.04				.04	1.22													.77									.09		2.20
Bowling Green								.61													.73									.13		1.47
Bradleyville							1.37	.14																								1.51
Brnnkfield								1.33		.03										T	1.35											2.71
Brnwning	T	.10						1.05		.02										T	1.68	T							T			2.85
Brunswick			.27					1.60	.12												.70								T	.04		2.73
Buffaln							.52	T													.13											.65
Bunker			T		.30	1.03	.90					T			T														.85	.05		2.93
Burlington Junction		.57						1.32														.30										2.19
Butler		T		*	*	*	1.38		.89												.10											2.37
Camdenton							.35	.15													.28											.78
Campbell					1.22	.22	.30		.85																			.88	.05			3.52
Canton Lnck & Dam 20		.08						.85	.14												1.03								.07	.19		2.36
Cap Au Gris L & D 25 r					.05	.16		1.67													.45							.16	.24			2.73
Cape Girardeau Mn State			T		1.48	.52	.47																					.77	.13	T		3.37
Cape Girardeau					.58	1.14	.53	.04																					1.38	T		3.67
Caplinger Mills					T	.06	2.50	.23													.30											3.09
Carrollton		.14					T	1.72													1.67								.02			3.55
Carthage							.90														.09											.99
Caruthersville				.03	1.48	1.28		.21	.53																			.12	.80	T		4.45
Cassville Ranger Sta z					.12		.43																						.02			.57
Centerville					.04	.46	1.40	.10														T							.49			2.49
Centerville Ranger Sta					T	.46	1.01															.01							.51	.02		2.01
Centralia			.12					.79	.02												.85									.18		1.94
Chadwick							1.03	.05																								1.08
Chillicothe 2 S		.02	.03				T	1.15	T	.06											1.64											2.90
Chillicnths AP CAA	T	.05				T		1.10	.02	.02										1.35	.02	T							T			2.58
Clarksville L & D 24 r //					.05	.12		.51												.41	.23					.09	.04					1.45
Clearwater Dam Site z			.07		.07	.48	.57	.14	.07																			.40				1.80
Clifton City		.02						.09	1.08												.36											1.55
Clinton z		T				.14	.51	.72													.29											1.66
Columbia WB Airport		.01			T	T	T	1.30												.05	1.01	T						T	.13	T		2.50
Cnlumhia Univ of Mo. z		.01						.72													.90								.17	.02		1.82
Conception			.30				.64	1.04												T	.25											2.23
Concordia								1.33												.80												1.93
Cook Statinn				.28		.37	.30														.02								.10			1.07
Crane Mountain				.05	.21	.40	.78																						.53			1.97
Crocker					.05	T	.19												T		.18								.02	.08		.52
Crystal City				.01	.44	.25	.02	T													.30								.22			1.24
Deering				.29	1.47	1.19		.06		.13																		.22	.78	.16		4.30
De Soto			.01		.48	.30	.03														.05								.14	.12		1.13
Dexter				.39	1.30	1.37	.09	.88																					1.13			5.16
Doniphan			.50	.05	.71		.32	T																				.54	.14			2.26
Doniphan 2 W				.67	.25	.42	.37																						.86			2.57
Dora r					.08		1.20																					.31	.03			1.82
Downing r	.05						.04	1.58	.05											1.79												3.51
East End				.55	.10	.75																							.30			1.70
Edgerton	.06		.15					1.09	.02												1.02	T		T								2.34
Edina		.34						.94	T	T											1.14									.05		2.47
Eldon					.07		.19	.58												.38									T	.04		1.28
Eldoradn Springs						.08	2.14	.56													.70											3.48
Elijah			.38			.22	T																					.03				.83
Ellington z					T	.64	.70	.15	.20																				.35			2.04
Ellsinnre			.29		1.08	T	.82	T																				.60	.15			2.94
Elsherry			T			.18		.56	T												.86								.44	.05		2.09
Eminence r			.02		.35		.98																					.28				1.83
Fairfax	.35							1.39																								1.74
Farmington z			.03			.51	.08	.02														T							.46	T		1.08
Fayette		.11			T			1.42													.84								.07			2.44
Fisk				.42	.48	1.02	.88	T																				T	1.33			4.11
Forsyth z				.10			.70																						.10			.90
Fredericktown				.05	.15	.4[illegible]	.07	T																					.65			1.41
Fulton z							.06	1.02													.57									.15		1.80
Galena						.04	1.32																.02						.02			1.40
Gallatin		.11						1.00		.03											.80											1.94
Gerald					.04	.13	.04	.18													.21								.22	.03		.85
Cranhy							.93															.15										1.08
Grant City z		.48					.12	1.00		.1[illegible]											.33											2.12
Greenville 1 SW					.19	.61	.74	.16																					.68			2.38
Hniley							.04																.05									.09
Hamden r		.10						1.20												.70	.34								.05			2.39
Hannihal								.50	.25												.63								T	T		1.38
Hannihal Waterworks	T	.03						.89												.50	.25								.02			1.69
Harris r		.02						1.27												1.38												2.87
Harrisnnville	.01		.05				.31	1.11	.05																							1.53
Hermann				.10				.99	.08												1.15								.03	.30		2.85
High Lookout			.20	.03	.38	.05	1.23	.03													-							.49	.03			2.44
Hornersville r				*	1.50			.09	.09	.45																		1.59				3.72
Houston r			.13		.05		.95														.06							.18				1.37
Jackson			.02		1.08	.30	.38														T							.71	.17	T		2.66
Jeff City Radio KWOS						.03	.03	1.16	.01												.77	T							.01	.03		2.04
Jefferson City z	.01					.03	.03	.90	.01												.79								.01	.01		1.79
Jerome		.10				.25		T												.25		T						T		T		.80
Jewett r			.01		.60		.98																					.38				1.97
Joplin AP CAA		T				T	.57	.04													.10			.27								.98
Kahnka		.33						1.34		.1[illegible]											1.77								.04	T		3.58
Kansas City WB Airpt z		.06				.03	.01	1.42												.24	.06		.06	T								1.88
K.C. St.John&Elmwnod r		.08					.02	1.42												.26	.05											1.83
K.C. 75th& Holmes r		.05					.16	1.89																								2.10
K.C. 37thRaytnwn Rd r		.04					.10	1.6[illegible]												.15	.15											2.04
K.C.Univ of K.C. z		.11					.06	1.82													.19		.23						T			2.21
Kidder		.09	.08				.04	1.13													.79											2.13
King City		.20					.11	1.07		.04										.9[illegible]	.39											2.71
Kirksville z	.03							.84		.06										T	1.27								T			2.20

See reference notes following Station Index.

DAILY PRECIPITATION

Table 3—Continued

Station		Day of Month																															Total
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Kirksville AP CAA	z		T						.87	.02											1.09	T	T							.03	T		2.01
Koshkonong					.03	.02	.31	.94	T																					.23			1.53
La Salle			.48	.03			T		1.14	.07	T											1.28								.03	.12		3.15
Lakeside	z			T				.32	.25													.33									.01		.91
Lamar								2.14	.20														.12	.07									2.53
Lampe Forest Service						.04	.03	.19																						.01			.27
Lampe 4 NNE	r					.05		.36																					.05				.46
Lathrop 3 SW			.11						.90														1.20										2.21
Lebanon	z						.04	.77	T													.05											.86
Lecoma 3 N	r				.26	.09		.31														.40							.08		-		-
Leeper					.25	.12	.67	1.26	.32																					.73			3.35
Lexington		.82	T	.17				.05	1.51	.01												.46											3.02
Licking 4 N					.85	.13	.05	1.23																									2.26
Linneus	z		.05						1.27		.04										.02	1.04								T			2.42
Livonia	r								2.00	.03											1.50												3.53
Lockwood	z							1.30	.06														.12	.20						T			1.68
Louisiana Starks Nur							.01		.71														.60								.07		1.39
Louisiana							T		.61	.22												.49								.04			1.36
Macedonia Lookout					.30		.51		.50																					.74			2.05
Macon	z			.02			.05	1.07	.05													.87	.01								.06		2.13
Madison			.17				.85		2.41													1.61									.20		4.74
Malden	r			.02	.02	1.71	.02	.42	.03	.17																			1.06				3.45
Mansfield					.11		.05	1.35														.12								.09			1.72
Marble Hill						1.85	.12	.83														.08							.95	.15	.60		4.08
Marshall AP CAA	z		.15				.02	.02	.95												.50	1.03	T							T	T		2.67
Marshfield					T	T		2.00	T													.01							T		-		2.01
Martinsburg				T			.10		.55	.10												.66		T						.06	.15		1.62
Maryville			.49					.34		1.15												1.08		T	.06								3.12
Maryville NNW 8	r	.07	.38					1.15	.36												.12				.07								2.15
McCredie	r					.14			.99												.03	.98								.09	.01		2.24
McCredie Exp Sta.	r					.07			.82												.04	.96								.11			2.00
Memphis			.14	T					.99	.05	.02											1.92											3.12
Mexico				.03		.01			.77	.03												.69								.01	.08		1.62
Middletown	r			.03		.08		.48	1.01													1.02							.08	.15			2.85
Milan			.01						1.16													1.19											2.36
Monett								1.22																						T			1.22
Monroe City			.17			.20	.12		1.25												.56									T			2.30
Mora	r						.03	.27	.66													1.18											2.14
Morehouse				T		1.79	.87	1.52																					.99	.14			5.31
Moselle				.50			.18	T	.06	T												.18								.10	.34		1.34
Mountain Grove	z				.17		.10	1.30														.03								.07			1.67
Neosho								.66														.22			.50					T			1.38
Nevada	z						.13	1.79	.44													.47		.04									2.87
New Florence AP	z		T			T	T		1.30												.02	.95	T						.08	.13	T		2.48
New Madrid						1.22	1.53	T	.53	T																			T	1.02			4.30
Oates Tower				.06		.07	.41	.62	.06														.01							.57	.02		1.82
Odessa			.20					.04	1.80												.78												2.82
Oregon			.16						1.20		T											.75			.14								2.25
Osceola	z							.55	.49													.30											1.34
Owensville	z							.11														.24							.14				.49
Ozark								1.80	.05																								1.85
Ozark Beach					.15			.69	.02																					.10			.96
Pacific				T				.30		.20												.40									.55		1.45
Palmyra									1.03													.55											1.58
Paris				.05					1.59	.05												.79									.10		2.58
Parma						.80	1.40	T	.34		.16																		T	1.00			3.70
Pattonsburg	r	.02	.10					.12	.95	.02	.01										1.29												2.51
Perry	z		.05						.25													.65											.95
Perryville				.15		.77	.10	.06																					.73	.58			2.39
Philadelphia		T	.03			T			1.10		T												.67							.22			2.02
Pierce City								1.00	.04													.06		.07					T				1.17
Pleasant Hill		.15		.05				.22	1.92	.10												.06									T		2.50
Polo	z		.10						1.05														1.14										2.29
Poplar Bluff					.34	.38	.67	.86	.15																					1.07	T		3.47
Potosi	r				.40	.69	.03	.05														.08							.14	.05			1.44
Puxico					T	.69	.94	.65	.33																					1.05			3.86
Qulin				T	.12	.40	.84	.35	.51	.51																			T	1.07			3.80
Reynolds							.55	.61	.09																					.46			1.71
Richwoods						.47	T	.07															.11							.14	.06		.85
Ridgeway	r		.14					.27	-	-	-	-									1.56	.03											-
Roby				.27		.05		1.12														.15							T	.05			1.64
Rogersville	r				.15	.02		2.00																									2.17
Rolla School-Mines	z							.28														.17								.10	.02		.57
Rolla 5 SE	r					.02		.27														.19							.07				.55
Rolla 3 W	r		.04	.02		.03		.25													.01	.01							.08				.44
Rolla 4 SE	r				.02	.02	-	-														.30							.09	.02			-
Rolla 7 S	r					.05		.28														.35							.04	.04			.78
Round Spring				.12			.40		1.05																					.28			1.85
Saint Charles				.16			.22	.25	.11	1.03												.55								.21	.53		3.06
St. James 3 NW	r			.03		.03		.18														.19							.07	.04	.03		.57
St. Joseph WB Airpt	z	T	.16					.04	.91												.37		T	.01	.02								1.51
St. Louis WB Airpt	z		T	.05		.16	.15		.35													.32							.14	.54			1.71
St. Louis WB City	z		T	.12		.19	.17	T	1.05													.41							.26	.28	.02		2.50
St. Louis Univ.	z			.07		.21	.17	.01	.89													.35							.27	.16	.02		2.15
St. Louis Wash Univ	z			.05			.33	.03	.30	.41												.35								.33	.05		1.85
St. Thomas								.10	.32													.36								T	T		.78
Salem	z				T		.21	.38														.14	.04							.09			.84
Salisbury			.25			T			1.94	T												.77								.07	T		3.03
Saverton L & D 22			T	.01			.01		.35	.10												.60								.30	.04		1.41
Sedalia			.05					.17	1.02													.49											1.73
Seligman								.06																									.06
Seneca	r							.62														.10			.30								1.02
Shelbina			.02			.18			1.80													T	T							.26			2.26
Shelbyville						.34																1.57								.23			2.14
Shell Knob						.23	.06	.23																						.04			.56
Sikeston				T	.41	1.66	1.65	.56	.28	T																			.08	.96	.03		5.63
Siloam Springs							.30		1.30																				*	.25			1.85
Skidmore	r	.02	.25					1.25	.40		.01										.71												2.64
Spring City	r							.61														.17			.40								1.18
Springfield WB Apt	z					.11	T	2.51	.01															T					.01	T			2.84
Stanberry	r		.20					.31	1.04												.88												2.43
Steelville	z					.06		.09	T													.44								.14	.05		.78
Steffenville	z	.15	.03						.98													.71								.20			2.07
Stover							.09	.20	.76													.39											1.44
Sullivan 3 NE	z			.04		.01	.41	.05	.04													.18								.10	.19		1.02
Summersville					.12	.40	.35	.63															T							.43	T		1.93
Sweet Springs			.06			.04		.09	1.42													.67											2.28
Tarkio AP CAA	z	.09	.42				.02	1.63	.36				-	-	-	-	-	-		-	-	-	-	-									-
Tecumseh							.09	.80	T																					.23			.92
Topaz						T		1.45																						.15			1.80
Trenton	z	.01	.03						.70	.02	.04											1.84											2.44
Troy							.10		2.00													.67								.12	.15		3.04
Union 2 SE				.10			.11	.02	.13												.38	.14								.10	.20		1.18
Unionville									1.85	.01	.08											2.23											4.17
Valley Park				.14			.21	T	T	.45												.92	T							.29	.15		2.18

See reference notes following Station Index.

DAILY PRECIPITATION

Table 3—Continued

Station		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Total
Van Buren					.36		.64	.85	.18																					.60			2.63
Vandalia			.03			T	T		.52													.88								.13	.03		1.59
Vanzant								1.50																						.17			1.67
Vichy 2 SE	r					.02		.10	.03											.01		.21							.13	.05			..55
Vichy AP CAA 2 NW						.09	T	.15	T	T												.20							.07	.09	T		.60
Villa Ridge	r					.12	.04		.15													.21							.13	.35			1.00
Waco								.98	.18														T										1.16
Wappapello Dam	z				.58	.56	.61	1.06	.03																				T	.87	T		3.71
Warrensburg				.01				.15	1.61	.03												.45											2.25
Warrensburg 5 E							.04	.20	2.12													.44											2.80
Warrenton				.03		.05	.13		1.16													1.20								.35			2.92
Warsaw No. 1				T			T	.55		.86												.37											1.78
Warsaw No. 2				T				.48	.85													.44											1.77
Washington	r					.05	.02		.32											.06		.34							.06	.40			1.25
Wasola	z					.08		1.59																						.17			1.84
Webster Groves				.14		.19	.30	T	.70													.77							.02	.35			2.47
Weingarten						.78																							.10	.44			1.32
West Plains	z			.16		.21		.96	.01	T																			.19	.14			1.87
Williamsville						.30	.80	1.04	.07																					.92			3.13
Willow Springs					.24		.14	1.34	.06																					.31			2.09
Willow Springs F S	r			.12		.07		1.35																					.22	.07			1.83
Windsor 3 NW				T				.28	1.05	.03												1.07											2.43
Zalma					.40	.53	.74	1.25	.08																					1.19			4.19

See reference notes following Station Index

TABLE 4
HOURLY PRECIPITATION

MISSOURI
SEPTEMBER 1948

STATION	A. M. HOUR ENDING												P. M. HOUR ENDING												TOTAL
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	
-1st-																									
Ashton												.34	.01												.35
Downing												.05													.05
Grant City																			.23					.01	.24
Maryville 6 NNW																								.07	.07
Pattonsburg																				.01	.01				.02
Skidmore																								.02	.02
Steffenville													.15												.15
Tarkio AP CAA																								.08	.08
-2d-																									
Chillicothe AP CAA 6								*	*	*	*	*	.05												
Columbia WB Airport 6														*	*	*	*	*	.01						
Columbia WB City														.01											.01
Grant City	.03	.06	.10	.05																					.24
Hamden											.07	.02	.01												.10
Harris				.02																					.02
Kansas City WB Airport						.02	.01					.01				.01	.01								.06
Kansas City Mo St John & Elmwood												.02	.02	.02	.02										.08
Kansas City Mo 75th & Holmes												.02	.01	.01	.01										.05
Kansas City Mo 37th & Raytown Rd												.01	.01	.01	.01										.04
Kansas City Univ of Kansas City												.02			.07		.01								.10
Linneus										.04	.01														.05
Lucerne	.01	.02	.01																						.04
Macon												.01	.01												.02
Marshall AP CAA												.12	.01												.13
Maryville 6 NNW	.03	.08	.14	.09	.04																				.38
Pattonsburg		.01	.01	.03	.04	.01																			.10
Perry												.02	.03												.05
Ridgeway	.03	.04	.01	.02	.04																				.14
Rolla Missouri 3 W																						.02		.02	.04
Saint Joseph WB Airport		.01	.03	.06	.02							.04													.16
Skidmore	.04	.02	.13	.05	.01																				.25
Stanberry	.02	.01	.04	.10	.03																				.20
Steffenville												.03													.03
Tarkio AP CAA	.11	.13	.11	.02	.02	.02																			.41
Trenton					.02	.01																			.03
-3d-																									
Advance AP														.13											.13
Alton 6 ENE																.36	.01	.01							.38
Clearwater Dam Site																.04	.02								.06
Eminence																		.01	.01						.02
Farmington	.01		.01	.02																					.04
Forsyth																					.09				.09
Houston																		.11	.02						.13
Jewett							.01																		.01
Malden																	.01	.01							.02
Middletown								.01	.01	.01															.03
Mountain Grove																			.14	.03					.17
Rolla Missouri 3 W	.02																								.02
Saint James 3 NW		.02		.01																					.03
Saint Louis WB Airport	.04	.01	.01																						.06
Saint Louis WB City		.04	.08																						.12
Saint Louis Wash Univ		.04	.01																						.05
Salem																	.02	.01							.03
Sullivan 3 NE	.02	.01																							.03
Wappapello Dam													.35	.19	.01		.01								.56
West Plains																		.10	.04					.03	.17
Willow Springs Forest S																		.08	.02	.02					.12
-4th-																									
Cassville Ranger Station																		.11							.11
Ellington																	.01								.01
Hornersville									*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Lecoma 3 N																		.26							.26
Malden																					.01	.01			.02
Potosi																	.38	.02							.40
Rogersville																					.14		.01		.15
Rolla 4 SE		.01	.01																						.02
Sullivan 3 NE																		.01							.01
West Plains	.01	.01																							.02
-5th-																									
Advance AP	.01	.01	.01	.03	.17	.09	.18	.10	.25	.08	.07	.10	.10	.01	.04	.03	.13	.09							1.50
Alton 6 ENE					.01	.01	.02	.07	.08	.07	.05	.01	.01			.01		.01	.04						.39
Belleview								.03	.05	.06	.14	.04	.03	.05	.04	.06	.04	.01	.03	.02	*	*	*	*	*
Bolivar														.02	.12	.02									.16
Cap Au Gris L & D 25															.01			.01		.02			.01		.05
Clarksville L & D 24 //															.01		.01				.03				.05
Clearwater Dam Site						.02	.04	.06	.10	.07	.01	.02			.04	.10	.06							.03	.55
Dora											.02	.03	.02		.01										.08
Ellington		.01			.02	.03	.04	.10	.08	.10	.02		.08		.07	.02							.01		.58
Eminence									.05	.10	.05	.05		.01	.02	.02	.01	.04							.35
Farmington						.01	.01	.04	.03	.08	.08	.03	.05	.04	.03	.02	.01	.01	.01	.01				.01	.47
Forsyth													.04												.04
Hornersville	*	*	*	*	*	*	*	*	1.05	.10	.10	.05	.05			.02	.04	.09							1.50
Houston												.03	.02												.05
Jefferson City												.02	.02												.04
Jewett					.01	.04	.10	.08	.07	.12	.04	.01		.03	.04	.04		.01	.01						.60
Lampe 4 NNE														.03	.01	.01									.05
Lebanon											.02		.03												.05
Lecoma 3 N									.01		.04	.02						.02							.09
Macon															.05										.05
Malden	.02	.03	.05	.19	.10	.10	.14	.05	.10	.05	.03	.04	.13	.15	.19	.16	.05	.01	.04	.06		.02			1.71
McCredie									*	*	*	*	*	.14											.14
McCredie Exp Station													.07												.07
Middletown													.05	.01								.01	.01		.08
Mountain Grove											.03	.03	.04												.10
Potosi								.02	.03	.04	.15	.11	.05	.03	.09	.04	.03	.02	.01	.02	.03	.01	.01		.69

See reference notes following Station Index

TABLE 4 — Continued
HOURLY PRECIPITATION

STATION	A. M. HOUR ENDING												P. M. HOUR ENDING												TOTAL
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	
Richwoods									.03	.01		.03	.15	.04	.02	.01	.02	.04	.01		.03	.01			.40
Rogersville															.02										.02
Rolla School of Mines											.01	.03													.04
Rolla 5 SE											.01	.01													.02
Rolla Missouri 3 W									.02	.01															.03
Rolla 4 SE												.02													.02
Rolla 7 S											.02	.02						.01							.05
Saint James 3 NW											.02	.01													.03
Saint Louis WB Airport													.04	.01			.05	.02		.01					.13
Saint Louis WB City									.01			.05	.04	.01		.04	.01	.01				.01	.01		.19
Saint Louis Wash Univ												.01	.07	.01	.01	.03	.02						.06	.01	.22
Salem										.01	.03	.01			.01	.08	.01						.01	.01	.17
Springfield WB Airport 4 NW														.11											.11
Steelville									.02	.01	.02			.03	.05	.02									.15
Sullivan 3 NE													.01	.09	.07	.01		.02	.02	.03					.25
Vichy 2 SE										.01	.01														.02
Vich AP CAA 2 NW 6								*	*	*	*	*	.09												
Villa Ridge														.04			.01	.02	.03	.01	.01				.12
Wappapello Dam			.01	.04	.10	.13	.16	.06	.13	.08	.08	.06	.03	.11	.05	.01	.02	.03							1.10
Washington														.02	.01					.01	.01				.05
Wasola												.04	.05												.09
West Plains										.02	.08	.04	.06	.02											.22
Willow Springs Forest S											.02	.02	.03												.07
-6th-																									
Amsterdam															.01	.01	.01				.07	.03	.04	.05	.22
Appleton City																.01	.02	.04				.11	.02	.05	.25
Belleview	*	*	*	*	*	.05																			.65
Bolivar																		.05	.05					1.54	1.64
Cap Au Gris L & D 25						.03	.10	.02			.01														.16
Clarksville L & D 24					.01	.11																			.12
Clearwater Dam Site	.01	.01																							.02
Clinton																							.02	.11	.13
Ellington	.01	.01																							.02
Farmington							.01					.01			.01										.03
Fulton												.09													.09
Kansas City WB Airport																				.02	.01				.03
Lockwood																								.10	.10
Malden	.01	.01																							.02
Mora																								.03	.03
Nevada																.12						.10	1.00	.20	1.42
Osceola																							.13	.02	.15
Potosi	.01					.02																			.03
Richwoods	.01		.01	.01	.01																				.04
Rolla 4 SE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Saint Louis WB Airport						.01	.06																		.07
Saint Louis WB City					.02	.03	.12																		.17
Saint Louis Wash Univ	.01	.01	.04	.01		.01	.02	.03																	.13
Salem		.01			.01																.01		.01	.01	.05
Sullivan 3 NE	.01	.01			.03	.02																			.07
Tarkio AP CAA																					.07	.01			.08
Villa Ridge	.02	.02																							.04
Wappapello Dam		.05																							.05
Warrensburg 5 E																								.04	.04
Washington			.01	.01																					.02
-7th-																									
Advance AP						1.14	.10	.13	.06	.01															1.44
Alton 6 ENE				.43	.10																				.53
Amsterdam	.07	.07	.04	.08																				.03	.29
Appleton City	.06	.11	.16	.02	.01																			.05	.41
Belleview							.09	.02																	.11
Bolivar	.86	.11	.04	.11	.02	.01											.03								1.18
Cassville Ranger Station	.01	.09	.13	.07	.05	.09																			.44
Clearwater Dam Site					.16	.20	.22	.12	.01																.71
Clinton	.13	.14	.14	.06							.02													.03	.52
Dora			.69		.15	.30	.06																		1.20
Downing																								.04	.04
Ellington					.30	.20	.20	.08	.01	.01															.80
Eminence				.14	.16	.50	.13	.05																	.98
Farmington								.03		.01	.01														.05
Forsyth		.02	.01	.21	.23	.20	.02																		.69
Grant City												.09	.01			.01				.04			.04	.22	.41
Houston			.44	.21	.19	.06	.05																		.95
Jewett						.70	.14	.10	.04																.98
Joplin AP CAA 6		*	*	*	*	*	.50													*	*	*	*	*	
Kansas City WB Airport		.01																							.01
Kansas City Mo St John & Elmwood																								.02	.02
Kansas City Mo 75th & Holmes																								.16	.16
Kansas City Mo 37th & Raytown Rd																								.10	.10
Kansas City Univ of Kansas City																								.05	.05
Lakeside	.04	.07	.10	.10																					.31
Lampe 4 NNE		.05		.24	.05	.02																			.36
Lebanon		.33	.24	.07	.05																				.69
Lecoma 3 N			.02	.08	.15	.06																			.31
Lockwood	.60	.42	.08	.05	.05	*	*	*	*	*	*	*	*	*	*	*	*	.05				.04			1.29
Lucerne														.38	.01	.01								.03	.43
Malden						.03	.04	.07	.21		.01	.01										.04	.01		.42
Maryville 6 NNW										.01	.26	.04				.01	.01		.03			.04	.34	.41	1.15
Middletown																				.45	.03				.48
Mora	.05	.12	.10																						.27
Mountain Grove		.28	.65	.19	.11	.08	.01																		1.32
Nevada	.30	.10	.06	.04																					.50
Osceola	.06	.08	.13	.08	.02																			.14	.51
Owensville				.02	.03	.01	.01																		.07
Pattonsburg																	.01	.01						.10	.12
Potosi							.02	.02	.01																.05
Richwoods							.02	.02																	.04
Ridgeway													.19	.01										.07	.27
Rogersville	.21	.67	.77	.21	.07	.05	.02																		2.00
Rolla School of Mines				.03	.15	.06		.01																	.25
Rolla 5 SE			.02	.06	.11	.08																			.27

See reference notes following Station Index

TABLE 4 — Continued
HOURLY PRECIPITATION

MISSOURI
SEPTEMBER 1948

STATION		A. M. HOUR ENDING												P. M. HOUR ENDING												TOTAL
		1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	
Rolla 3 W			.02	.08	.11	.04																				.25
Rolla 4 SE		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Rolla 7 S				.01	.09	.13	.05																			.28
Saint James 3 NW				.01	.01	.09	.05	.02																		.18
Saint Joseph WB Airport													.01				.01								.02	.04
Saint Louis WB Airport						.01	.04	.01		.04																.10
Salem			.01	.01	.04	.11	.15																			.32
Seneca					.45	.16		.01																		.62
Skidmore											.40	.15	.01			.03		.01		.04	.01			.01	.59	1.25
Spring City			.02	.16	.27	.16																				.61
Springfield WB Airport		1.58	.48	.31	.03	.04	.03	.01															.03			2.51
Stanberry												.10	.10					.01		.03				.02	.05	.31
Steelville							.05	.02																		.07
Sullivan 3 NE							.01	.01	.01	.01																.04
Tarkio AP CAA									.05	.22	.16	.15			.02	.12			.01	.04		.02	.01	.62	.23	1.65
Vichy 2 SE					.02	.07	.01																			.10
Vichy AP CAA 2 NW	6		*	*	*	*	*	.15																		
Wappapello Dam						.18	.20	.22	.38	.13																1.11
Warrensburg 5 E		.03	.09	.06																				.01	.01	.20
Wasola				.47	.01	.72	.39																			1.59
West Plains					.85		.06	.08	.02																	1.01
Willow Springs Forest S				.64	.35	.05	.24	.06	.01																	1.35
—8th—																										
Amsterdam		.08	.44	.17	.05	.03	.11	.03	.01																	.92
Appleton City		.01	.02	.12	.01	.09	.13		.02																	.40
Ashton				.04	.26	.19	.16	.27	.04	.04																1.00
Bedford			.29	.31	.22	.20	.08	.01																		1.11
Cap Au Gris L & D 25							1.22	.30	.14	.01																1.67
Chillicothe AP CAA	6		*	*	*	*	*	1.09	*	*	*	*	*	.01												
Clarksville L & D 24	//					.09	.21	.17	.02	.01					.01											.51
Clearwater Dam Site																	.06									.06
Clinton		.04	.01	.35	.03	.07	.14	.01		.01																.66
Columbia WB Airport	6		*	*	*	*	*	1.15	*	*	*	*	*	.15												
Columbia WB City					.04	1.09	.04	.14																		1.31
Columbia Univ of Missouri					.01	.49	.03	.12																		.65
Downing		.24	.20	.22	.44	.18	.20	.05	.05																	1.58
Ellington																	.24									.24
Fulton				.02	.13	.60	.15	.07	.03																	1.00
Grant City		.21	.09	.17	.16	.06	.04																			.73
Hamden		*	*	*	*	1.08	.07	.03	.02																	1.20
Harris		.39	.14	.32	.16	.14	.09	.03																		1.27
Hornersville																					.02	.02			.05	.09
Jefferson City				.01	.49	.56	.09	.05																		1.20
Joplin AP CAA	6	.07	*	*	*	*	*	.04																		
Kansas City WB Airport		.13	.45	.54	.13	.15	.02																			1.42
Kansas City Mo St John & Elmwood		.20	.80	.24	.06	.10	.02																			1.42
Kansas City Mo 75th & Holmes		.72	.52	.35	.15	.10	.01		.01	.03																1.89
Kansas City Mo 37th & Raytown Rd		.48	.22	.59	.10	.11	.05	.03		.02																1.60
Kansas City Univ of Kansas City		.34	.21	.75	.06	.18	.01		.01	.02	.01	.01														1.60
Kirksville AP CAA				.09	.30	.20	.15	.05	.05																	.84
Lakeside				.10	.05	.01		.10																		.26
Linneus			.34	.28	.26	.24	.08	.05																		1.25
Livonia		.46	.41	.30	.33	.15	.20	.12	.03																	2.00
Lucerne		.31	.28	.20	.18	.08	.03																			1.08
Macon				.37	.19	.16	.26	.07	.03																	1.08
Malden																				.02	.01					.03
Marshall AP CAA		.02	.24	.01	.42	.06	.07	.10	.02																	.94
Maryville 6 NNW		.06	.05	.10	.10	.05																				.36
McCredie					.03	.33	.49	.09	.05																	.99
McCredie Exp Station						.22	.45	.09	.06																	.82
Middletown				.01	.04	.56	.32	.04	.04																	1.01
Mora		.01	.01	.04	.40	.03	.16	.01																		.66
New Florence AP 1 SE					.01	.84	.40	.02	.03																	1.30
Osceola		.04			.04	.14	.10																			.32
Pattonsburg		.07	.33	.31	.11	.03	.03	.02		.01	.01	.01			.01	.01										.95
Perry							.07	.08	.10																	.25
Ridgeway		.22	.37	.14	.20	.04	.06	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Saint Joseph WB Airport		.23	.50	.15	.01	.01	.01																			.91
Saint Louis WB Airport								.15	.10																	.25
Saint Louis WB City								.35	.70																	1.05
Saint Louis Wash Univ								.50	.20																	.70
Skidmore		.05	.02	.18	.12	.03																				.40
Springfield WB Airport 4 NW							.01																			.01
Stanberry		.59	.09	.23	.07	.05	.01																			1.04
Steffenville				.05	.27	.19	.15	.14	.12	.04		.01	.01													.98
Sullivan 3 NE								.01	.01																	.02
Tarkio AP CAA		.06	.01	.10	.07	.01	.01																			.26
Trenton			.17	.18	.17	.12	.02		.02			.01														.69
Vichy 2 SE				.01	.01	.01																				.03
Vichy AP CAA 2 NW	6		*	*	*	*	*	.07																		
Villa Ridge								.13	.02																	.15
Warrensburg 5 E		.70	.02	.02	.91	.03	.29	.14		.01																2.12
Washington							.02	.30																		.32
—9th—																										
Ashton																							.01	.01		.02
Chillicothe AP CAA	6																				*	*	*	*	*	
Downing																						.02	.02	.01		.05
Grant City																						.18				.18
Hornersville									.06	.03																.09
Livonia																						.03				.03
Lucerne																					.04	.05	.03			.12
Malden								.13	.04																	.17
Pattonsburg																									.02	.02
Trenton																				.03						.03
—10th—																										
Chillicothe AP CAA	6	.02	*	*	*	*	*	.02																		
Hornersville											.10	.10	.05	.05			.02	.04	.09							.45
Pattonsburg		.01																								.01
Skidmore																									.01	.01

See reference notes following Station Index

TABLE 4 — Continued
HOURLY PRECIPITATION

MISSOURI
SEPTEMBER 1948

STATION	A. M. HOUR ENDING												P. M. HOUR ENDING												TOTAL
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	
-11th-																									
Ridgeway	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-19th-																									
Vichy 2 SE																			.01						.01
Washington																		.06							.06
-20th-																									
Ashton																		.34	.12	.01	.05	.10	.38	.12	1.12
Bedford																					.75	.52	.18	.15	1.60
Chillicothe AP CAA 6																				*	*	*	*	*	
Clarksville L & D 24 //																								.41	.41
Columbia WB Airport 6																				*	*	*	*	*	
Columbia WB City																								.02	.02
Columbia Univ of Missouri																								.01	.01
Downing																		.72	.13	.24	.30	.26	.14		1.79
Grant City																					.20	.08			.28
Hamden																						.20	.35	.15	.70
Harris																		.30	.10	.40	.20	.34	.04		1.38
Kansas City WB Airport																						.23	.01		.24
Kansas City Mo St John & Elmwood																						.26			.26
Kansas City Mo 37tb & Raytown Rd																							.15		.15
Kansas City Univ of Kansas City																							.10	.01	.11
Kirksville AP CAA																					.45	.38	.16	.05	1.04
Lakeside												.02	.03												.05
Linneus							.02	.01												.01	.37	.17	.06	.41	1.05
Livonia																	.02	.60		.37	.25	.13	.13		1.50
Lucerne															.02		.03			.38	.07	.20			.70
Macon																						.32	.15	.04	.51
Marshall AP CAA																								.47	.47
Maryville 6 NNW																					.12				.12
McCredie																								.03	.03
McCredie Exp Station																								.04	.04
New Florence AP 1 SE																								.03	.03
Pattonsburg																			.69	.15	.40	.05			1.29
Perry																							.02	.14	.16
Ridgeway											.09								1.07	.22	.11	.04	.01	.02	1.56
Rolla 3 W																								.01	.01
Saint Joseph WB Airport										.04									.05	.28					.37
Salem																					.01				.01
Skidmore																				.69	.02				.71
Stanberry									.02	.03									.37	.40	.05	.01			.88
Steffenville																						.19	.28	.04	.51
Trenton																				1.04	.45	.12		.01	1.62
-21st-																									
Amsterdam				.05																					.05
Appleton City				.02	.05	.01																			.08
Ashton																					.02				.02
Bedford	.05	.01																							.06
Cap Au Gris L & D 25	.25	.05	.04	.06	.05																				.45
Chillicothe AP CAA 6	1.37																								
Clarksville L & D 24 //	.07	.03	.05		.07	.01																			.23
Clinton	.01	.09	.02	.12	.05																				.29
Columbia WB Airport 6	.05	*	*	*	*	*	1.01																		
Columbia WB City	.21	.04	.51	.36	.01																				1.13
Columbia Univ of Missouri	.04	.06	.32	.43	.02																				.87
Fulton		.20	.18	.07	.15																				.60
Grant City	.01	.01																							.02
Hamden	.18	.12	.04																						.34
Houston						.03	.02	.01																	.06
Jefferson City	.10		.05	.32	.19	.09																			.75
Joplin AP CAA 6								*	*	*	*	*	.10												
Kansas City WB Airport		.06																							.06
Kansas City Mo St John & Elmwood		.05																							.05
Kansas City Mo 37th & Raytown Rd	.14	.01																							.15
Kansas City Univ of Kansas City	.07	.02																							.09
Lakeside			.10	.08	.02	.06	.05	.02																	.33
Lebanon						.02	.03																		.05
Lecoma 3 N					.10	.08	.01	.01											.20						.40
Linneus	.02	.01																							.03
Lockwood								.01	.12	.01															.14
Macon	.24	.10	.01																						.35
Marsball AP CAA	.08	.15	.24	.03																					.50
McCredie	.27	.11	.31	.17	.10			.02																	.98
McCredie Exp Station	.05	.16	.35	.23	.14	.02	.01																		.96
Middletown	.32	.01	.44	.11	.01	.11		.02																	1.02
Mora		.20	.15	.30	.53																				1.18
Mountain Grove								.03																	.03
Nevada						.35	.09		.01																.45
New Florence AP 1 SE		.21	.36	.25	.09	.02																			.93
Osceola		.02	.02		.16	.08																			.28
Owensville				.08	.10	.04	.03																		.25
Perry	.26	.13	.04	.06																					.49
Potosi							.02	.06																	.08
Ridgeway	.01			.01	.01																				.03
Rolla School of Mines				.04	.07	.07																			.18
Rolla 5 SE				.13	.03	.01	.02																		.19
Rolla 3 W	.01																								.01
Rolla 4 SE				.05	.18	.03	.02	.02																	.30
Rolla 7 S				.10	.21	.02		.01	.01																.35
Saint James 3 NW			.02	.02	.05	.05	.05																		.19
Saint Louis W8 Airport			.07	.06	.09	.09																			.31
Saint Louis WB City			.01	.01	.14	.24	.01																		.41
Saint Louis Wash Univ				.08	.08	.14																			.30
Salem	.01	.01				.07	.02	.01	.01															.04	.17
Seneca									.01	.06	.03														.10
Spring City									.10	.06	.01														.17
Springfield WB Airport 4 NW							.07	.01		.01															.09
Steelville					*	*	.44																		.44
Steffenville	.14	.07	.01																						.22
Sullivan 3 NE					.08	.10	.01																		.19

See reference notes following Station Index

TABLE 4 — Continued
HOURLY PRECIPITATION

STATION	A. M. HOUR ENDING												P. M. HOUR ENDING												TOTAL
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	
Trenton		.01	.01																						.02
Vichy 2 SE			.10	.01	.05	.04		.01																	.21
Vichy AP CAA 2 NW 6		*	*	*	*	*	.20																		
Villa Ridge			.01	.04	.06	.10																			.21
Warrensburg 5 E	.11	.24	.02	.07																					.44
Washington			.02	.04	.14	.13	.01																		.34
Wasola								.06																	.06
−22d−																									
Lockwood							*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Richwoods						.08	.04	.01																	.13
−23d−																									
Kansas City WB Airport															.06										.06
Kansas City Univ of Kansas City															.21										.21
Lockwood	*	*	*	*	*	*	.20																		.20
Nevada													.02												.02
Saint Joseph WB Airport													.01												.01
Tarkio AP CAA											.08		.02												.10
−24th−																									
Joplin AP CAA 6								*	*	*	*	*	.27												
Maryville 6 NNW			.07																						.07
Saint Joseph WB Airport					.02																				.02
Seneca									.25	.05															.30
Spring City								.20	.18		.02														.40
−28th−																									
Advance AP										.10	.21	.30	.02	.02	.03	.01	.04	.10	.07	.03	.09	.21			1.23
Alton 6 ENE												.09	.08	.11	.01			.03				.05	.02	.01	.40
Belleview															.08		.02	.15	.17	.05		.01			.48
Cap Au Gris L & D 25																					.06	.07	.02	.01	.16
Cassville Ranger Station																	.01								.01
Clarksville L & D 24 //																						.04	.03	.02	.09
Clearwater Dam Site												.05	.20		.05		.05	.01	.01				.02	.01	.40
Dora													.01	.04	.02		.09	.02	.06	.02	.05				.31
Ellington												.01	.13	.10	.01			.05					.01	.02	.33
Eminence														.06	.10	.02	.02	.02	.03	.03					.28
Farmington															.01		.09	.16	.17	.01					.44
Forsyth															.01	.04			.04	.01					.10
Hornersville					.08	.07	.20	.24	.37	.13	*	*	*	*	*	*	*	.50							1.59
Houston															.06			.03		.04	.02		.02	.01	.18
Jewett												.02	.15	.08	.02	.03	.05	.03							.38
Lampe 4 NNE																	.04	.01							.05
Lecoma 3 N																					.04	.04			.08
Malden							.07	.16	.22	.22	.23	.03	.02		.02	.03	.01	.04			.01				1.06
Middletown																						.01	.05	.02	.08
Mountain Grove																		.01	.02					.01	.04
New Florence AP 1 SE																						.01	.05	.01	.07
Owensville																					.02	.02			.04
Potosi																			.04	.09	.01				.14
Richwoods																				.09	.02				.11
Rolla School of Mines																						.11	.01		.12
Rolla 5 SE																				.01	.01	.05			.07
Rolla 3 W																						.03	.05		.08
Rolla 4 SE																				.01	.02	.05		.01	.09
Rolla 7 S																						.04			.04
Saint James 3 NW																					.03	.04			.07
Saint Louis WB Airport																			.03	.01	.07	.02			.13
Saint Louis WB City																			.09	.11	.05	.01			.26
Saint Louis Wash Univ																		.05	.10	.06	.02				.23
Salem																			.01	.02	.02	.02		.01	.08
Springfield WB Airport 4 NW																.01									.01
Steelville																				.06	.08	.02			.16
Sullivan 3 NE																				.02	.07				.09
Vichy 2 SE																						.10	.03		.13
Vichy AP CAA 2 NW 6																				*	*	*	*	*	
Villa Ridge																				.02	.10			.01	.13
Wappapello Dam									.01	.11	.13	.24	.09			.02	.03	.07	.08	.01	.01	.05			.85
Washington																				.01	.05				.06
Wasola							*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
West Plains													.01	.06	.02		.03	.01	.02	.01	.03				.19
Willow Springs Forest S													.01	.04		.05	.05	.03		.01	.03				.22
−29th−																									
Cap Au Gris L & D 25								.05	.15	.01								.01	.01	.01					.24
Clarksville L & D 24 //	.01						.01	.02																	.04
Columbia WB Airport 6								*	*	*	*	*	.04	*	*	*	*	*	.07	*	*	*	*	*	
Columbia WB City												.01	.01	.01	.01					.01					.05
Columbia Univ of Missouri												.06	.04	.05						.01					.16
Dora			.01	.02																					.03
Ellington	.01	.02																							.03
Farmington		.01																							.01
Fulton										.05	.06		.04			.01									.16
Hamden									.01	.01	.02	.01													.05
Jefferson City																			.02	.01				.01	.04
Lakeside																		.01							.01
Macon									.01	.03	.01														.05
McCredie									.01	.04	.01	.02									.01				.09
McCredie Exp Station									.02	.01	.02	.01	.02			.02	.01								.11
Middletown		.02							.08	.01	.02										.01	.01			.15
Mountain Grove	.01				.02																				.03
New Florence AP 1 SE	.01	.01						.02	.02	.08	.01														.15
Owensville									.01		.05														.06
Potosi																						.03	.01	.01	.05
Richwoods	.01	.01																			.03				.05
Rolla School of Mines																						.01	.01		.02

See reference notes following Station Index

TABLE 4—Continued
HOURLY PRECIPITATION

STATION		A. M. HOUR ENDING												P. M. HOUR ENDING												TOTAL
		1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	
Rolla 4 SE																								.01	.01	.02
Rolla 7 S		.01		.01	.01		.01																			.04
Saint James 3 NW			.01	.01		.01																		.01		.04
Saint Louis WB Airport					.01	.01		.03	.15	.21	.09	.02	.01													.53
Saint Louis WB City							.12	.01	.01	.02	.08	.04														.28
Saint Louis Wash Univ		.01	.01					.05	.05																	.12
Steelville																							.02			.02
Steffenville							.01	.02	.02	.01	.02		.10	.01		.01										.20
Sullivan 3 NE											.05	.04	.02								.01		.02	.02		.16
Vichy 2 SE																						.04	.01			.05
Vichy AP CAA 2 NW	6	.07													*	*	*	*	*	.05	*	*	*	*	*	
Villa Ridge									.03	.02	.13	.07									.05	.03	.01	.01		.35
Wappapello Dam			.01	.01																						.02
Washington									.08	.18	.06									.02	.03	.03				.40
Wasola		*	*	*	*	*	*	.17																		.17
West Plains		.02				.02	.08	.02																		.14
Willow Springs Forest S		.01		.01	.01		.01	.03																		.07
−30th−																										
Advance AP																		.03								.03
Columbia WB Airport	6	.02																								
Columbia Univ of Missouri		.01	.01																							.02
Lecoma 3 N											.03															.03
McCredie					.01																					.01
Richwoods		.01	.01																							.02
Rolla 5 SE										.02	.01															.03
Saint James 3 NW				.01	.01	.01																				.03
Saint Louis WB City							.02																			.02
Vichy AP CAA 2 NW	6	.04																								

See reference notes following Station Index

Table 5

DAILY TEMPERATURES

Station		Day of month																															Average
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Advance AP	MAX MIN	89 54	94 51	93 62	89 58	71 64	85 65	82 64	92 64	72 52	83 46	85 52	88 51	88 55	88 56	87 54	91 51	87 57	89 54	91 64	92 64	93 66	82 58	75 49	74 47	73 47	73 50	78 50	65 54	67 52	71 52		82.9 55.3
Albany	MAX MIN	94 65	85 64	90 58	90 56	92 59	90 57	81 62	73 54	81 44	83 51	88 59	90 60	91 54	90 55	93 56	92 63	90 68	96 70	97 69	94 70	85 63	75 60	75 49	75 49	76 43	77 41	78 41	79 40	80 46	82 45		85.4 55.6
Amity	MAX MIN	92 65	83 64	88 59	87 60	88 61	89 59	93 64	73 55	79 48	82 54	87 57	88 61	89 58	88 59	91 61	90 61	89 67	93 69	94 70	94 72	84 65	77 60	73 50	73 48	72 49	73 45	75 50	76 43	77 49	81 49		83.9 57.6
Anderson 2 SW	MAX MIN	90 57	89 53	87 54	91 58	89 56	85 56	90 57	90 65	80 54	79 42	81 42	84 45	87 49	86 52	89 53	90 52	91 54	89 57	88 58	89 63	93 61	92 62	93 62	88 60	76 42	75 40	73 38	75 40	75 45	70 45		85.1 52.3
Appleton City	MAX MIN	89 63	87 63	91 63	91 61	90 61	91 58	89 63	82 58	85 49	84 48	86 52	88 53	89 56	90 58	94 59	91 53	89 58	92 59	94 65	95 68	92 68	78 65	80 56	78 49	75 46	75 47	78 46	78 49	70 55	78 45		85.6 56.4
Arcadia	MAX MIN	91 51	93 52	94 53	92 58	86 58	70 63	80 62	86 62	90 58	86 45	82 45	87 52	89 53	90 54	90 49	93 48	92 49	90 55	90 65	94 67	97 68	93 60	85 59	85 41	78 40	76 40	74 40	70 40	70 54	75 55		85.6 53.1
Bethany	MAX MIN	92 64	84 65	88 58	87 57	88 58	88 58	82 67	71 54	77 44	81 50	86 88	88 62	88 58	86 55	91 55	90 58	89 67	93 69	96 71	92 73	82 66	73 60	71 51	72 49	70 42	72 41	74 39	76 40	76 48	78 49		82.7 56.1
Birch Tree	MAX MIN	88 53	90 51	91 64	86 58	79 63	89 61	86 65	88 67	72 58	82 45	85 48	89 57	86 56	91 50	89 52	90 49	88 57	87 54	92 62	94 64	91 63	92 60	79 59	76 44	74 45	72 44	76 45	70 54	65 54	68 48		83.5 54.9
Black 9 NW	MAX MIN	91 66	90 71	90 68	90 67	74 64					80 57	82 52	83 64	90 67	89 68	92 68	92 64	90 75	89	94	95	91		94		75	72	78 35		69 47	69 55		85.2
Bolivar	MAX MIN	89 59	88 62	90 67	89 61	86 68	90 59	85 63	77 62	74 52	80 51	84 56	86 60	86 58	90 59	91 60	89 61	87 64	89 66	92 68	92 71	89 72	90 64	78 60	76 50	73 46	72 47	73 47	72 50	71 56	70 54		83.3 59.0
Boonville Waterworks	MAX MIN	85 59	87 64	78 62	85 60	85 60	85 58	82 64	86 56	62 50	75 53	78 60	82 61	85 66	85 60	82 55	88 55	88 54	86 65	86 70	92 72	92 64	83 61	70 52	70 46	70 44	70 45	69 45	72 47	73 53	68 55		80.0 57.1
Brookfield	MAX MIN	91 62	93 69	81 58	90 62	89 62	90 61	89 67	84 56	66 46	82 53	85 59	90 59	92 55	94 62	90 55	96 60	91 65	93 66	94 70	98 72	98 66	85 61	73 51	74 49	75 46	74 46	75 46	78 47	78 55	70 57		85.3 58.0
Brunswick	MAX MIN	87 64	90 63	84 62	91 61	90 63	89 64	84 63	86 57	64 50	80 50	82 54	86 61	88 58	90 58	87 58	92 57	92 60	90 65	93 68	95 70	95 67	82 65	74 57	75 48	75 48	78 48	75 48	77 49	79 50	65 56		83.8 58.0
Butler	MAX MIN	90 61	85 64	89 62				89 58	76 57	76 48	81 48	85 53	86 54	86 55	88 57	90 58	89 57	88 64	90 61	92 65	93 68	89 66	81 62	76 56	75 50	74 43	73 43	75 42	77 47	72 52	71 45		82.8 55.4
Camdenton	MAX MIN	90 60	88 62	89 66	90 61	86 65	88 62	87 64	87 63	75 52	83 51	77 56	90 59						92 65	95 70	96 71	91 67	89 65	78 56	77 47	75 48	74 50	76 49	74 53	74 55	70 56		83.6 58.9
Campbell	MAX MIN	84 60	91 59	92 65	84 62	79 63	87 65	87 65	88 65	80 58	80 52	85 53	85 55	84 62	88 62	85 60	90 60	86 63	89 58	90 59	93 65	93 63	86 68	77 55	74 50	73 50	71 50	76 50	74 53	67 55	71 49		83.0 58.4
Canton Lock Dam 20	MAX MIN	80 62	80 66	90 62	87 64	80 66	85 68	82 67	74 58	78 46	79 52	89 58	90 60	90 58	86 61	85 53	87 62	90 68	92 68	92 72	92 70	82 68	73 63	70 50	72 47	70 50	75 51	70 52	78 50	75 57	72 58		81.5 59.5
Cape Girardeau Mo State	MAX MIN	87 59	94 59	91 70	87 63	80 65	84 67	84 66	91 66	78 61	83 58	85 55	88 58	87 61	87 63	87 61	90 59	88 62	88 62	92 67	92 68	92 67	85 66	74 56	74 50	73 51	74 52	78 53	72 54	66 56	74 56		83.5 60.3
Caplinger Mills	MAX MIN	89 57	86 61	89 65	88 60	86 59	89 55	84 61	79 59	75 50	80 49	82 55	85 55	85 53	89 55	89 56	89 58	87 62	89 61	91 69	92 65	88 66	85 62	77 61	75 53	73 45	73 43	75 44	74 47	73 53	72 47		82.9 56.1
Carrollton	MAX MIN	90 58	81 68	87 57	87 60	88 60	88 59	84 65	76 57	79 49	83 51	87 56	88 57	89 54	85 62	91 54	90 55	89 61	92 63	95 68	95 70	85 66	74 63	73 54	72 47	71 45	73 48	74 47	76 47	69 57	77 56		82.9 57.0
Carthage	MAX MIN	89 58	88 59	92 61	89 63	89 60	90 58	91 64	86 62	76 53	93 47	86 58	84 59	84 64	91 56	93 57	90 58	88 65	90 65	92 69	92 71	86 67	93 62	80 63	78 54	75 42	72 42	74 41	76 46	73 50	76 45		85.2 57.2
Caruthersville	MAX MIN	85 66	90 67	92 71	83 67	78 66	86 66	84 72	90 70	87 63	79 57	84 57	86 59	86 66	85 65	87 65	91 64	87 67	88 64	91 70	91 68	91 66	88 69	78 59	74 55	74 55	72 53	75 53	72 57	71 59	71 54		83.2 62.9
Chillicothe AP CAA	MAX MIN	91 61	79 62	90 57	90 62	90 61	88 58	80 63	67 53	78 47	81 53	86 57	87 61	89 56	87 60	91 56	90 57	89 64	91 66	96 70	95 66	83 65	73 62	72 53	73 47	72 46	74 46	75 44	77 47	75 55	79 55		82.9 56.9
Clearwater Dam Site	MAX MIN	88 58	92 56	91 69	87 61	85 65	85 66	84 67	91 68	79 61	83 50	87 51	86 55	86 57	88 60	88 55	91 54	89 59	90 56	92 65	95 65	92 66	91 64	82 61	73 48	72 47	71 48	76 47	75 55	65 55	68 51		84.1 57.9
Clinton	MAX MIN	90 59	83 65	90 63	89 63	90 63	90 60	85 65	70 54	77 50	83 51	86 59	89 57	87 57	89 60	93 58	92 58	90 62	93 63	95 68	96 70	90 67	75 59	75 55	74 50	72 47	74 48	75 47	75 50	69 55	76 52		83.7 57.7
Columbia WB Airport	MAX MIN	85 62	80 65	85 64	85 62	84 64	86 63	88 67	70 53	77 48	80 53	84 60	88 61	89 59	84 62	88 57	88 61	88 66	90 66	92 70	93 68	86 66	70 61	71 51	72 48	71 47	72 47	75 48	74 49	60 55	70 56		80.8 58.5
Columbia Univ of Mo.	MAX MIN	86 59	82 64	85 62	88 59	86 60	85 61	88 65	86 57	77 48	80 50	85 55	87 57	89 55	86 60	88 52	89 56	89 61	91 65	94 67	94 71	89 65	80 60	72 50	73 45	72 43	73 44	76 44	77 47	71 53	71 55		83.0 56.2
Conception	MAX MIN	94 65	92 64	88 61	89 63	90 62	90 61	90 61	73 54	78 49	82 55	86 60	88 63	91 58	90 61	90 62	89 62	89 65	94 70	95 72	89 65	86 63	83 60	72 50	72 48	74 48	75 47	75 48	80 47	81 49	82 49		84.9 58.0
Crystal City	MAX MIN	89 53	90 55	91 65	90 60	80 65	83 67	87 63	88 65	76 59	84 47	90 50	93 55	91 55	90 58	90 50	95 49	92 59	93 57	98 66	98 68	93 66	85 62	77 53	76 42	77 42	78 44	82 40	73 56	70 55	70 57		85.6 56.0
Doniphan	MAX MIN	88 55	90 54	91 67	85 61	74 65	89 65	79 67	97 67	75 62	83 48	88 49	89 50	88 56	92 55	90 53	93 57	90 56	92 56	95 62	96 63	95 61	93 60	79 59	76 43	75 43	71 43	76 45	66 54	67 57	71 52		84.4 56.1
Edgerton	MAX MIN	82 69	93 65	73 60	87 56	89 56	87 57	91 61	87 57	71 45	81 50	84 57	83 55	89 53	90 55	92 56	93 57	93 58	90 70	91 72	95 74	95 68	85 56	73 54	71 53	73 46	73 40	75 43	76 44	77 40	78 45		83.9 55.6
Eldon	MAX MIN	88 58	86 61	88 63	88 60	83 62	86 61	86 65	81 60	86 48	80 55	85 56	88 58	88 58	86 61	90 58	90 59	89 62	90 63	93 69	93 70		89 62	73 52	73 45	72 44	76 45	75 45	73 48	68 54	69 57		83.2 57.2
Elsberry	MAX MIN	87 53	85 56	83 59	88 58	86 58	78 65	86 62	90 63	76 49	78 47	81 55	87 52	90 51	90 54	87 48	87 50	91 61	91 59	91 65	95 66	96 64	85 59	69 45	73 40	74 39	73 40	74 38	78 42	79 55	63 54		83.0 53.5
Farmington	MAX MIN	86 53	91 54	90 66	89 56	78 64	82 66	85 63	89 66	72 59	82 47	87 53	89 56	89 55	88 59	90 51	94 52	90 62	90 60	95 67	96 68	92 65	83 61	75 59	72 44	72 45	71 46	77 45	70 54	62 54	68 54		83.1 56.7
Fayette	MAX MIN	87 60	82 66	88 63	88 60	89 61	86 62	90 66	82 57	78 50	82 51	85 55	87 57	89 55	86 62	90 54	90 56	89 64	90 63	93 68	93 70	86 62	77 62	72 53	73 48	71 48	72 47	75 48	76 49	70 51	74 57		83.0 57.4
Fulton	MAX MIN	83 57	84 62	83 61	84 61	85 61	80 66	85 69	86 60	67 49	75 50	81 55	85 56	88 55	86 58	83 52	87 53	89 64	90 63	90 62	94 68	93 66	87 61	68 52	70 46	71 47	70 47	71 47	74 50	74 54	61 56		80.8 56.8
Grant City	MAX MIN	82 72	82 62	88 58	88 60	91 61	89 58	82 60	73 53	76 52	79 58	81 60	85 55	89 60	88 56	91 60	89 60	90 65	93 67	96 68	92 69	84 62	78 50	75 47	72 47	73 44	75 44	77 47	78 50	85 61	88 55		83.6 57.3
Greenville 1 SW	MAX MIN	93 58	90 58	89 68	92 59	82 65	86 67	82 65	90 66	87 62	83 48	84 49	84 52	92 55	89 56	90 52	90 51	89 58	91 55	94 62	89 64	92 66	92 61	77 58	76 42	73 42	71 43	75 43	74 55	78 56	68 52		84.7 56.2
Hannibal Waterworks	MAX MIN	79 61	78 64	85 63	86 64	83 64	83 66	84 67	70 54	77 49	79 53	85 58	89 60	88 61	83 61	89 58	90 62	89 69	91 67	93 70	93 67	82 65	69 56	70 48	70 49	70 50	72 48	74 50	75 48	61 55	69 55		80.2 58.6

See reference notes following Station Index.

DAILY TEMPERATURES

Table 5-Continued

Station		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Average
Harrisonville	MAX	84	89	84	88	88	88	88	86	69	79	83	86	86	88	89	91	90	88	92	93	95	90	79	71	79	78	79	71	78	71		84.0
	MIN	63	66	63	64	64	62	63	57	48	52	52	57	60	60	64	62	64	64	65	70	68	64	57	51	47	48	48	49	52	50		58.4
Jackson	MAX	92	95	90	90	82	84	84	93	77	85	87	88	90	91	91	94	89	89	93	94	93	86	78	77	76	75	81	73	67	72		85.2
	MIN	54	55	69	61	65	68	64	64	61	47	51	54	57	59	53	52	60	57	67	69	66	62	55	47	47	48	50	55	56	53		57.4
Jeff City Radio KWOS	MAX	86	82	87	87	83	87	87	79	76	81	86	91	88	86	89	89	88	90	93	94	87	77	72	73	72	73	77	73	68	69		82.3
	MIN	56	61	62	59	60	64	65	60	51	50	56	56	55	57	52	51	64	65	68	69	66	60	57	46	42	46	46	49	54	57		56.7
Joplin AP CAA	MAX	90	90	93	91	87	93	88	76	75	82	84	87	86	90	93	92	90	90	92	94	87	90	78	76	73	74	75	77	73	75		84.7
	MIN	61	62	65	64	62	62	63	61	53	50	59	60	60	58	62	63	65	64	71	74	67	64	62	55	45	46	46	50	52	46		59.0
Kansas City WB Airport	MAX	94	80	85	89	88	91	81	70	79	83	88	88	88	90	93	90	89	93	94	95	86	74	72	72	72	73	74	77	74	79		83.4
	MIN	71	68	65	64	66	64	65	57	52	58	66	66	60	62	69	70	73	71	75	70	68	59	57	55	50	48	49	51	56	53		61.8
Kansas City Univ of K. C.	MAX	93	89	87	89	89	90	84	78	79	88	87	88	88	87	92	90	89	92	92	95	90	79	73	74	73	73	75	77	74	80		84.5
	MIN	66	68	63	60	62	59	65	57	49	51	62	66	60	58	59	59	69	67	75	76	67	63	55	52	46	45	46	51	54	49		59.2
Kidder	MAX	91	81	88	89	90	89	83	68	78	81	86	88	89	87	90	89	89	92	96	95	85	78	73	72	73	74	76	77	72	78		83.2
	MIN	64	65	59	61	61	60	65	55	49	53	61	60	60	60	60	60	65	67	70	71	64	61	49	47	45	45	45	45	53	50		57.6
Kirksville	MAX	85	79	90	89	89	89	81	72	80	78	86	88	92	86	92	90	89	91	95	94	81	78	73	74	72	75	76	77	67	78		82.9
	MIN	62	67	60	62	62	63	64	55	48	50	58	60	59	59	58	57	67	66	70	70	65	61	46	45	48	46	46	47	54	55		57.6
Kirksville AP CAA	MAX	85	77	86	86	88	86	81	65	76	79	85	88	90	84	89	89	88	90	94	93	79	66	70	72	70	72	74	75	64	76		80.6
	MIN	61	64	60	63	62	63	65	49	48	51	59	59	59	60	56	66	66	66	70	66	66	59	48	46	49	45	45	44	54	55		57.4
Koshkonong	MAX	89	93	92	87	79	91	86	90	79	82	87	87	87	93	90	92	88	87	94	94	95	93	85	75	75	72	76	76	63	68		84.8
	MIN	59	59	68	63	65	62	66	69	60	52	56	59	62	62	60	59	65	64	67	68	58	67	63	48	48	48	49	54	54	51		59.4
Lakeside	MAX	88	90	85	90	90	85	88	88	70	78	83	87	91	90	89	92	91	92	91	94	94	90	89	89	83	75	75	77	74	67		85.5
	MIN	56	57	63	60	61	60	67	64	52	50	51	56	56	57	54	53	54	60	64	67	67	62	55	44	43	44	44	47	54	58		55.9
Lamar	MAX	87	87	87	90	87	86	89	83	73	74	80	83	85	83	81	88	88	86	88	90	90	85	85	76	75	72	72	72	75	71		82.3
	MIN	58	58	60	61	59	57	58	59	51	49	50	54	55	57	58	59	59	61	61	67	67	62	60	53	46	46	45	45	46	47		55.5
Lathrop 3 SW	MAX	92	78	86	86	89	90	80	70	80	82	85	87	88	88	91	90	88	92	94	94	81	74	72	72	72	74	74	77	75	79		82.7
	MIN	64	65	60	62	62	59	64	56	48	52	62	58	58	60	61	62	67	65	70	69	65	60	52	51	46	45	46	45	49	50		57.7
Lebanon	MAX	81	91	89	92	91	78	89	87	81	76	82	85	89	89	90	94	91	89	90	93	94	91	88	78	76	73	72	74	72	67		84.4
	MIN	59	58	59	57	58	57	61	64	51	48	50	58	57	57	58	56	58	63	66	67	68	60	59	43	41	43	40	41	50	51		55.2
Lexington	MAX	87	91	78	88	90	90	89	84	67	78	81	87	88	90	88	92	91	90	92	94	95	84	77	75	75	74	76	77	77	73		83.9
	MIN	65	70	62	63	64	62	66	57	53	55	60	64	60	64	63	64	65	68	71	74	67	64	54	49	48	48	48	48	52	54		60.0
Licking 4 N	MAX	87	90	89	90	79	84	80	83	73	83	82	83	85	88	87		89	84	87	90	93	87		71			75	67	63			82.8
	MIN	53	70	67	57	65	60	64	62	52	43	45	67	53	54	56		55	59	66	67		65		42			39	49	57			57.0
Lockwood	MAX	90	89	92	89	89	91	85	78	75	82	84	87	85	90	90	91	89	89	91	94	86	80	74	75	73	73	74	75	71	73		83.5
	MIN	61	60	63	60	60	58	62	61	52	50	58	56	57	58	60	61	63	65	69	71	65	66	60	54	45	44	44	50	53	51		57.8
Louisiana Starks Nur.	MAX	86	83	90	88	83	85	90	80	78	82	87	90	92	88	90	92	90	92	95	95	86	82	75	75	75	75	79	77	69	71		84.0
	MIN	55	58	60	58	58	68	63	60	48	49	63	64	54	56	49	52	62	68	73	70	65	62	47	40	40	42	40	45	56	54		55.9
Macon	MAX	85	87	76	86	86	86	87	85	63	79	81	85	88	91	84	90	90	89	91	94	93	83	68	71	73	71	72	75	76	61		81.5
	MIN	60	63	62	61	60	62	64	55	49	51	54	60	59	59	59	58	62	65	66	70	65	61	46	44	44	45	43	43	46	54		56.2
Marble Hill	MAX	92	95	92	91	84	86	87	92	76	85	87	89	88	89	90	93	90	91	95	95	95	90	77	76	75	73	80	75	68	70		85.5
	MIN	50	48	64	55	60	64	59	60	56	43	46	49	50	54	48	46	54	50	59	62	60	57	50	40	39	45	47	49	50	48		52.0
Marshall AP CAA	MAX	90	80	88	90	88	87	87	78	76	80	86	88	89	88	92	90	90	92	96	94	84	76	74	73	72	74	76	77	68	76		83.3
	MIN	58	64	58	66	60	59	64	50	45	49	56	59	55	61	54	57	63	66	68	66	64	54	52	45	45	46	44	47	54	54		56.0
Marshfield	MAX	86	87	88	86	79	87	84	83	72	78	81	84	84	81	88	88	86	84	89	90	84	87	78	73	71	70	71	70	67	65		80.7
	MIN	62	58	61	59	60	57	62	64	51	45	54	58	72	60	62	60	61	64	67	70	69	62	59	49	43	44	43	48	52	49		57.4
Maryville	MAX	93	85	84	85	86	86	80	70	76	77	84	86	86	85	88	89	88	91	94	90	82	77	68	69	70	70	71	74	75	78		81.2
	MIN	64	64	60	63	63	62	61	53	48	53	57	61	57	62	60	61	64	68	68	70	65	59	51	50	49	47	48	49	47	48		57.6
Memphis	MAX	86	80	82	90	91	89	89	82	65	81	82	88	90	93	87	93	92	91	93	92	94	82	71	76	76	76	76	78	80	66		83.7
	MIN	61	61	61	61	63	60	64	55	48	47	50	57	58	59	56	58	63	65	65	69	66	61	46	46	49	46	45	45	47	51		56.0
Mexico	MAX	88	89	82	87	88	85	86	81	65	79	82	86	89	92	86	92	92	92	92	95	95	87	69	73	74	73	73	77	77	59		82.8
	MIN	58	63	62	61	62	66	66	59	47	52	61	60	57	59	53	56	64	65	69	71	66	62	49	45	44	45	44	47	50	57		57.2
Monett	MAX	86	85	82	87	85	81	87	86	79	72	79	82	84	86	89	89	88	81	88	90	90	87	90	74	75	71	71	72	73	68		81.9
	MIN	62	59	63	63	61	60	62	62	53	52	55	57	60	59	62	61	61	64	68	70	70	67	64	54	45	46	44	48	50	50		58.3
Mountain Grove	MAX	87	87	89	84	76	88	87	85	76	79	84	83	84	89	86	87	86	83	91	92	88	92	82	75	74	72	74	72	62	65		82.0
	MIN	60	57	67	58	61	59	64	68	54	48	56	59	61	58	60	60	64	60	65	67	68	62	59	46	44	42	42	52	53	52		57.4
Neosho	MAX	89	88	92	90	89	91	92	89	75	83	85	87	86	89	92	91	89	89	92	93	89	93	94	86	75	72	73	75	72	77		85.9
	MIN	58	55	58	61	58	58	64	64	54	45	53	54	53	53	55	56	60	62	63	69	69	62	64	50	41	40	39	45	48	45		55.1
Nevada	MAX	93	92	93	92	91	92	87	80	79	83	85	88	88	91	92	92	90	90	93	94	92	85	79	78	76	75	78	79	73	79		86.0
	MIN	58	62	65	63	61	58	63	60	50	50	56	58	57	58	59	59	66	63	69	71	67	64	60	53	47	47	47	50	55	47		58.0
New Florence AP 1 SE	MAX	85	80	88	85	78	83	89	68	75	79	84	85	88	84	87	90	89	90	92	92	85	70	71	71	70	72	76	73	62	66		80.2
	MIN	56	61	63	60	63	65	65	56	49	50	60	57	58	60	54	54	64	62	69	69	66	60	49	45	44	46	45	47	55	56		56.8
Oregon	MAX	93	81	86	86	88	89	76	72	80	82	86	88	89	88	90	88	89	92	95	93	85	70	70	69	71	73	73	76	77	80		82.5
	MIN	68	64	62	64	65	62	61	54	50	62	62	63	60	63	65	67	71	71	72	68	65	59	54	51	49	47	49	48	48	50		59.7
Ozark Beach	MAX	92	91	92	94	91	84	94	94	89	76	85	88	89	88	92	92	93	91	90	98	96	90	95	81	79	76	75	76	77	69		87.2
	MIN	58	57	62	61	63	61	66	69	57	49	51	53	57	57	60	54	57	58	62	64	63	64	66	50	45	45	43	51	55	52		56.9
Polo	MAX	89	90	73	86	87	88	88	78	67	78	81	85	82	89	87	89	90	88	91	94	94	93	74	72	71	71	72	74	73	74		82.3
	MIN	62	65	60	62	61	60	65	56	50	53	58	62	61	59	61	60	61	67	67	72	62	61	52	49	46	44	44	44	43	51		57.2
Poplar Bluff	MAX	93	95	94	88	76	90	84	93	82	84	87	88	90	92	92	92	89	90	94	93	95	92	82	79	77	75	80	72	68	70		85.9
	MIN	60	56	59	62	65	66	67	68	62	50	53	52	53	61	60	59	59	56	65	65	64	64	57	48	49	50	50	57	57	52		58.
Rolla School of Mines	MAX		87	88	89	87	76	84	86	82	76	82	87	89	88	88	90	82	89	92	94	95	90	81	74	72	71	72	75	70	62		82.7
	MIN	57	58	63	59	62	61	62	65	50	48	54	59	57	61	54	54	62	63	67	67	63	61	52	44	44	45	45	49				56.
Saint Charles	MAX	88	86	91	89	83	85	90	87	79	83	90	93	91	90	91	94	91	93	96	100	91	82	74	75	74	75	79	75	70	73		85.3
	MIN	60	63	65	65	65	68	68	68	58	54	58	58	60	60	56	57	67	65	71	70	67	65	51	49	48	49	48	54	57	59		60.
Saint Joseph WB Airport	MAX	96	79	88	89	90	90	77	73	78	84	88	89	88	90	92	91	90	94	95	94	85	69	72	73	73	73	75	77	77	79		83.
	MIN	69	67	62	61	65	61	62	55	50	55	63	62	57	61	62	65	72	72	73	70	67	59	55	53	49	46	47	46	51	49		59.
Saint Louis WB Airport	MAX	83	84	88	84	74	82	91	80	75	81	90	91	91	85	88	91	90	91	95	95	84	70	70	69	70	71	77	75	62	71		81.
	MIN	61	64	66	66	67	68	68	61	58	56	61	61	61	62	58	60	68	65	71	72	67	60	52	50	50	50	50	55	56	58		60.
Saint Louis WB City	MAX	84	86	87	86	75	81	88	82	77	81	89	90	89	87	87	92	91	91	95	95	84	74	73	72	71	73	79	74	61	71		82.
	MIN	65	66	69	68	68	68	72	60	59	59	63	65	69	65	65	66	72	68	72	74	67	61	54	52	53	51	52	57	57	59		63.

See reference notes following Station Index.

DAILY TEMPERATURES

Table 5-Continued

Station		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Average
Saint Louis Univ.	MAX	83	84	87	85	76	81	82	81	75	80	88	91	89	85	86	91	90	92	94	94	85	74	72	71	72	72	78	75	66	69		81.6
	MIN	64	67	68	68	68	68	70	60	59	58	62	64	68	66	66	65	72	67	72	74	67	62	54	52	52	52	53	57	57	59		62.9
Saint Louis Wash. Univ.	MAX	86	85	86	89	86	74	85	90	84	77	84	89	93	92	88	91	95	92	93	96	98	86	71	73	74	72	72	79	75	62		83.9
	MIN	60	61	65	65	66	67	67	68	58	53	59	56	59	63	56	56	63	63	67	69	66	65	52	49	49	49	50	55	55	57		59.5
Salem	MAX	86	88	89	90	88	70	85	86	86	73	82	87	88	88	87	90	91	88	89	93	93	90	81	74	73	72	70	75	71	62		82.8
	MIN	52	55	66	59	61	63	64	67	55	45	52	54	57	54	52	49	53	62	63	66	66	59	55	39	39	42	38	43	53	57		54.6
Salisbury	MAX	91	80	89	88	90	87	89	77	80	82	87	89	91	87	94	94	91	92	95	95	85	75	74	75	75	76	79	80	68	77		84.4
	MIN	61	67	61	61	62	62	67	57	47	53	59	59	57	61	54	59	65	64	70	71	66	62	52	46	45	45	45	46	56	57		57.8
Saverton Lock Dam 22	MAX	80	79	80	84	79	83	84	76	77	80	80	90	89	83	86	90	89	91	94	93	80	78	70	70	70	70	84	75	71	69		80.8
	MIN	61	62	60	62	62	66	66	57	52	53	60	63	67	58	54	56	65	68	71	71	63	60	49	47	47	48	47	50	54	54		58.3
Sedalia	MAX	89	85	87	89	87	87	87	84	75	80	84	86	87	85	91	89	88	89	92	92	89	79	73	72	72	72	75	74	73	72		82.8
	MIN	61	67	60	63	65	59	65	58	47	54	60	60	59	59	61	62	68	65	70	72	68	62	55	49	48	44	49	45	53	56		58.7
Seligman	MAX	84	84	87	84	82	87	87	80	70	79	81	84	81	84	87	88	87	85	88	90	90	92	79	74	71	69	71	70	63	73		81.0
	MIN	60	58	58	61	59	60	62	62	52	48	54	56	58	57	62	61	62	66	67	67	69	68	63	54	48	54	44	50	50	49		57.9
Shelbina	MAX	85	80	86	86	85	86	85	79	80	82	87	88	90	83	91	90	89	91	95	94	88	74	70	74	71	72	74	77	67	75		82.5
	MIN	60	64	62	64	61	63	66	55	46	54	58	58	58	59	57	58	64	64	69	70	65	60	46	45	44	44	44	45	54	54		56.9
Sikeston	MAX	89	87	93	85	76	81	86	83	91	81	82	85	87	87	89	88	92	87	89	93	93	91	85	78	76	75	74	80	60	69		83.7
	MIN	58	59	66	63	65	65	67	67	62	51	56	57	61	61	58	58	64	62	68	68	66	66	54	47	47	47	49	56	50	53		58.9
Springfield WB Airport	MAX	86	89	88	85	81	88	84	77	72	79	83	82	83	86	86	87	85	87	91	90	85	87	74	73	72	69	72	71	68	67		80.9
	MIN	62	59	66	62	61	58	62	55	54	51	52	57	60	61	63	59	63	63	66	69	68	64	58	52	45	44	44	50	54	52		57.7
Steffenville	MAX	82	78	88	87	85	85	85	75	78	80	84	87	90	85	89	89	89	91	94	94	85	76	72	75	77	73	76	77	67	74		82.2
	MIN	60	65	62	63	61	64	67	57	46	50	58	59	60	60	51	61	65	65	71	70	66	61	47	45	48	47	45	46	55	56		57.6
Sweet Springs	MAX	90	79	88	88	89	88	88	80		80	85	88	88	85	92	90	88	92	95	95	86	78	74	73	73	74	76	78	72	76		83.7
	MIN	57	67	57	60	61	58	64	57		46	59	59	54	57	53	58	66	65	69	71	67	62	53	47	42	45	44	47	56	56		57.1
Tarkio AP CAA	MAX	96	82	87	88	89	90	70	73	79	82	87							95						73	75	75	76	78	79	82		
	MIN	65	63	61	56	60	57	56	50	42	50	58							67						50	42	39	37	37	39	39		
Trenton	MAX	90	84	89	90	89	88	82	71	80	86	89	85	92	88	92	91	90	94	98	96	90	78	73	74	73	75	76	77	76	81		84.6
	MIN	62	68	60	63	65	62	65	55	48	53	57	61	58	61	59	60	55	66	70	73	66	61	58	50	47	45	46	46	50	55		58.1
Union 2 SE	MAX	87	84	88	88	79	86	89	83	78	83	91	92	91	88	90	94	92	94	97	96	88	77	73	72	73	73	78	75	70	70		84.0
	MIN	52	55	63	59	61	66	62	62	52	46	49	52	54	55	47	48	56	59	67	66	60	60	51	40	39	42	38	53	54	56		54.0
Unionville	MAX	87	86	83	88	87	89	90	76	67	79	78	88	89	90	81	91	90	90	92	96	94	81	67	70	71	71	72	74	75	73		82.2
	MIN	62	64	58	59	58	59	62	52	45	48	53	58	56	56	56	57	60	65	67	69	64	57	45	44	45	43	43	43	49	50		54.8
Vandalia	MAX	85	79	85	86	80	82	88	77	76	80	84	88	89	85	90	89	90	93	90	93	84	75	72	73	72	73	76	76	70	79		82.0
	MIN	57	59	60	61	60	66	64	57	47	49	58	59	55	57	53	60	65	68	68	70	66	61	46	48	44	43	44	47	58	50		56.6
Vichy AP CAA 2 NW	MAX	86	85	86	86	76	84	86	76	79	82	86	88	88	86	89	91	88	89	94	94	88	77	72	72	71	71	75	71	61	64		81.4
	MIN	61	65	63	61	62	64	64	57	51	53	59	63	59	62	62	61	69	70	70	71	67	55	51	44	45	46	44	52	54	56		58.6
Wappapello Dam	MAX	90	88	94	90	86	73	87	82	91	70	82	86	85	86	89	87	89	87	89	92	93	93	86	76	75	75	71	78	61	68		83.3
	MIN	62	60	71	63	64	65	67	67	62	54	56	72	57	62	61	60	63	59	66	67	65	66	57	50	51	51	52	58	54	50		60.3
Warrensburg Central T. C.	MAX	91	86	88	91	89	90	87	84	78	83	86	88	88	84	93	91	88	91	93	86	88	81	75	75	72	74	76	77	73	77		84.1
	MIN	64	69	61	62	63	60	65	58	52	55	60	60	63	64	63	65	68	66	70	72	68	64	54	48	47	48	47	50	56	55		59.8
Warrenton	MAX	86	85	89	85	80	86	90	86	78	81	88	91	89	86	90	92	91	92	95	95	88	77	71	71	71	72	76	73	62	77		83.1
	MIN	54	58	61	58	59	65	64	61	50	48	58	59	54	57	53	52	66	64	69	69	66	55	49	42	39	42	40	45	55	56		55.5
Warsaw No. 1	MAX	93	87	92	90	89	91	87	84	79	82	85	88	89	89	92	91	89	91	94	94	92	87	78	78	75	77	78	75	73	75		85.5
	MIN	62	68	64	62	65	61	65	63	54	55	60	66	62	61	60	59	68	65	71	72	70	64	61	53	48	55	46	49	57	54		60.6
Wasola	MAX	89	90	92	88	84	92	85	86	73	83	87	86	86	91	88	90	89	85	92	95	89	93	77	75	75	72	75	74	64	68		83.8
	MIN	58	54	64	62	61	57	66	61	60	51	56	57	58	60	59	54	63	62	64	65	64	73	60	45	45	46	63	45	51	49		57.7
Webster Groves	MAX	86	87	91	88	78	85	90	84	78	83	90	92	90	89	90	92	92	93	95	97	87	78	73	74	74	74	79	74	63	71		83.9
	MIN	54	57	64	62	63	65	65	63	57	50	52	53	56	59	53	52	61	57	66	65	66	60	50	45	45	46	45	54	54	57		56.4
Weingarten	MAX	87	90	88	88	83	83	88	90	73	83	87	89	90	89	88	93	90	90	96	97	92	82	74	74	73	73	80	72	64	68		83.8
	MIN	55	59	65	60	64	66	66	65	57	51	57	62	60	61	55	59	66	62	68	70	68	63	55	43	46	44	47	45	46	55		57.9
West Plains	MAX	90	92	92	86	72	90	83	90	70	83	87	86	87	90	90	91	89	88	94	96	91	92	79	76	74	72	76	69	62	66		83.4
	MIN	54	52	64	60	64	59	67	63	50	47	49	51	56	56	53	50	57	57	63	65	64	62	53	44	44	44	45	55	52	51		54.9
Willow Springs	MAX	85	85	86	84	81	86	81	85	70	78	82	84	84	86	86	89	86	82	90	91	86	88	77	74	71	68	74	69	65	63		80.5
	MIN	56	54	67	58	64	60	65	69	58	48	50	52	57	57	55	51	57	57	65	66	68	63	61	49	49	48	49	55	53	53		57.0

See reference notes following Station Index

TABLE 6

DAILY EVAPORATION (INCHES) AND WIND MOVEMENT (MILES)

STATION		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	TOTAL	DEPARTURE FROM NORMAL
Columbia Univ of Mo.	EVAP	.221	.089	.105	.179	.154	.144	.160	.211	.095	.218	.257	.237	.189	.190	.192	.224	.254	.238	.166	.345	.221	.089	.146	.152	.146	.147	.135	.164	.059	.033		5.160	
	WIND	16	8	1	2	6	10	6	30	19	42	54	40	3	3	9	29	59	68	44	53	50	3	12	5	9	13	6	40	29	2		671	
St. Louis Wash Univ	EVAP	.212	.178	.102	.150	.122	.016	.068	.181	.191	.136	.155	.205	.160	.181	.192	.165	.164	.195	.145	.180	.186	.100	.081	.145	.143	.109	.149	.177	.113	.001		4.302	
	WIND	14	10	8	13	5	9	18	6	40	14	10	10	6	6	9	8	4	14	10	10	11	9	30	24	16	34	36	38	36			458	

TABLE 7

DAILY RIVER STAGES (FEET)

RIVER AND STATION	FLOOD STAGE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	HIGHEST (OR CREST)	DATE	LOWEST	DATE
Bourbeuse																																				
Union 2 SE	12	.4	.4	.3	.4	.3	.3	..2	.2	.2	.2	.2	.2	.2	.4	.3	.3	.2	.2	.2	.2	.2	.2	.1	.2	.2	.2	.1	.1	.1	.2		.4	1+	.1	23-
Meramec																																				
Sullivan 3 NE	11	1.4	1.4	1.4	1.4	1.4	1.4	1.5	1.5	1.4	1.4	1.4	1.4	1.4	1.3	1.3	1.3	1.3	1 3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.2	1.2	1.3	1.3		1.5	7+	1.2	27-
Valley Park	14	-1.3	-1.4	-1.4	-1.4	-1.4	-1.4	-1.4	-1.4	-1.4	-1.4	-1.4	-1.5	-1.5	-1 5	-1.5	-1 5	-1.6	-1.6	-1.6	-1.6	-1.4	-1.6	-1.6	-1.6	-1.7	-1.7	-1.7	-1.7	-1.7	-1.7		-1.3	1	-1.7	25-
Mississippi																																				
Hannibal	13	10.2	10.0	10.0	10.0	10.2	10.0	9.9	10.0	10.1	10.1	10.1	9.7	9.6	9.7	9.7	9.7	9.8	9.8	9.9	9.8	10.2	10.5	10.3	10.1	10.0	10.0	10.0	10.0	9.9	10.0		10.5	28	9.6	13
St. Louis WB City	30	2.6	3.2	3.4	2.6	1.9	2.5	2.5	1.9	1.8	1.6	1.9	1.5	1.0	.8	.7	.9	1.2	.7	- .2	- 7	- .6	.5	2.3	2.8	1.4	.5	- .3	- .9	-1.1	- .9		3.4	3	-1 1	29
Cape Girardeau	32	11.6	11.2	11.2	11.5	11.3	10.6	10.7	10.8	10.6	10.5	10.3	10.3	10.3	10.0	9.7	9.5	9.4	9.6	9.5	8.9	8.3	8.3	8.7	9.8	10.8	10.4	9.6	8.8	8.4	8.0		11.6	1	8.0	30
Thompson Fork																																				
Trenton	20	5.3	4.0	3.7	3.5	3.4	3.4	3.4	3.7	3.8	3.8	3.5	3.4	3.4	3.4	3.4	3.4	3.3	3.3	3.3	3.3	5.6	3.9	3.6	3.6	3.4	3 6	3.5	3.5	3.5	3.4		5.6	21	3.3	17
Grand																																				
Gallatin	20	2.4	2.4	2.4	2.4	2.4	2 4	2.4	2.5	2.5	2.6	2.8	2.6	2.5	2.4	2.4	2.3	2.3	2.3		2.2	2.4	3.5	2.7	2.5	2.4		2.3	2.3	2.2	2.2		3.5	22	2.2	20
Chillicotbe 2 S	18	3.6	4.1	4.0	3.8	3.7	3.7	3.6	3.6	3.7	3.8	3.8	3.8	3.7	3.6	3.6	3.6	3.6	3.6	3.6	3.5	3.7	5.1	4.8	4.1	4.0	3 6	3.5	3.5	3.5	3.4		5.1	22	3.4	30
Brunswick	12	3.8	3.6	3.8	4.0	4.9	4.9	4.0	3.7	3.9	4.1	4.6	3.8	3.3	3.4	3.4	3.2	3.0	2.9	2.8	2.7	2.7	2.8	3.0	3.0	3.0	2.5	2.5	2.5	2.4	2.6		4.9	5+	2.4	29
Osage																																				
Osceola	22	1.3	1.2	1.1	1.0	1.1	1.1	2.5	5.5	6.7	7.9	8.8	8.2	5.8	4.2	3.3	1.3	1 2	1.2	1 3	1.2	1.2	1.2	1.2	1.2	1.6	1.0	1.1	1.1	1.1	1.0		8.8	11	1.0	4
Warsaw No 2	31	25.7	25.6	25.4	25.3	25.3	25.3	25.3	25.2	25.2	25.2	25.6	25.8	26.1	25.8	25.6	25.4	25.2	24.9	24.8	24.9	24.6	24.4	24.2	24.2	24.0	24.0	23.8	23.6	23.4	23.0		26.1	13	23.0	30
Lakeside	-	57.4	57.3	57.2	57.1	57.2	57.2	57.2	57.0	56.9	57.0	57.2	57.5	57.7	57.6	57.4	57.2	56.9	56.6	56.6	56.6	56.3	56.1	55 9	55.9	55.8	55.8	55.7	55.5	55.1	54.7		57.7	13	54.7	30
St. Thomas	23	6.9	5.0	5.0	4.3	2.1	1.9	1.9	5.9	6.3	4.9	4.7	2.1	1.8	6.9	6.5	6.4	6.6	6.6	2.4	1.9	7.3	5.9	4.9	3.6	4.0	1.9	1.7	5.7	7.0	7.7		7 7	30	1.7	27
Gasconade																																				
Jerome	15	1.9	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.7	1 7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7		1.9	1	1.7	14
Missouri																																				
St. Joseph WB Airport	17	9.9	9.1	11.0	9.7	9.2	9.2	9.5	8.9	10.1	8.9	8.5	8.4	8.3	8.2	8.0	8 0	8.0	7.8	7.8	7.8	8.1	7.8	7.9	7.9	7.8	7.9	7.9	8.2	8.3	8.1		11.0	3	7.8	18
Kansas City WB Airpt	22	8.6	8.9	8.8	10.8	9.0	8.5	8.2	8.3	8.9	9.1	8.1	7.9	8.2	8.0	7.7	7.4	7.3	7.2	7.2	7.2	7.3	7.3	7.3	7.2	7.1	7.1	7.1	7.0	7.5	7.9		10.8	4	7.0	28
Waverly	18	9.8	9.6	10.0	10.2	11.7	10.0	9.5	9.3	9.8	10.9	10.1	9 1	9.2	9 3	9.0	8.6	8.4	8.2	8.0	7 9	8.0	8 2	8.1	8.0	8.0	8.0	8.0	8.0	8.1	8.5		11.7	5	7.9	20
Boonville	21	8.4	8.2	8.1	8.2	8.8	9.8	8.5	8.2	8.2	8.4	9.1	8.6	7.7	7 7	7 8	7.5	7 2	7.0	6.8	6.6	6.6	6.7	6 7	6.7	6.6	6.6	6.6	6.5	6.5	6.6		9.8	6	6.5	28
Herman	21	9.4	9.4	911	9.7	8.7	8.8	9.8	8.9	9.2	9.2	9.0	9.2	9.1	8 2	8.7	8.9	8.7	9.4	8.2	7.2	7.0	7.8	7.5	7.5	7 1	7.0	6.9	6.7	7.3	7.6		9.8	7	6.7	28
St. Charles	25	13.3	12.9	13.7	12.6	12.3	12.1	11.9	12.5	12.5	12 8	12.9	12.6	12.3	12 2	11.7	11 4	11.2	11.0	10.9	10.6	10.4	10.2	10.3	10.5	10.6	10.8	10.7	10.4	10.1	10 6		13.7	3	10.1	29
Current																																				
Doniphan 2 W	12	1.9	1.9	1.9	1.9	1.9	2.0	2.0	2.0	2.0	2.0	2.0	1.9	1 9	1.9	1.9	1.9	1.9	1 9	1 9	1.9	1.9	1.9	1.8	1.8	1.8	1.8	1.8	1.8	199	1.9		2.0	6+	1 8	2
Black																																				
Leeper	11	1.9	1.9	1.9	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1 8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8		1.9	1	1 8	4
Poplar Bluff	16	2.2	2.2	2.2	2.3	2.3	2.3	2.3	2.3	2 2	2.2	2.2	2.2	2.2	2.2	2.2	2 2	2.1	2.2	2.2	2.2	2.2	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.1		2.3	4+	2.1	1
White																																				
Forsyth	-	.8	.8	.8	.8	.8	.8	.8	.8	4.5	1.0	8	8	8	8	.8	.8	.8	.8	.8	.8	8	.8	7	.7	.7	7	.7	.7	7	.7		4.5	9	7	2
St. Francis																																				
Fisk	20	3.1	2.5	1.4	1.3	1.3	1.4	3 1	6.1	6 6	6.4	5.5	3.2	2.0	1.4	1 3	1.3	1.2	2.0	5.0	5.3	5.0	3 3	1.9	1 4	1.2	1.2	1.2	1.6	4 3	4.6		6.6	9	1 2	1
Mississippi																																				
New Madrid	34	6.5	6.3	6.0	5.8	5.5	5.6	5.3	5.5	5.6	5.9	5.8	5 3	4 6	5 1	5.1	5.2	4.8	4 3	4.3	4.1	4.2	4.2	4.6	5.4	5.1	5.0	5.0	5.2	5.1	4.5		6.5	1	4.1	2
Caruthersville	32	4.6	4.5	4.2	4.2	3.6	3 5	3.8	3.6	3.7	3.9	4.2	3.9	3 0	2.9	3 3	3.4	3.3	2 9	2.4	2.2	2.0	2.3	2.4	3 3	3.4	3 5	3.3	3.3	3.6	3.0		4.6	1	2.0	2

The following reference notes apply only to Table 7 - Daily River Stages:

Readings are made approximately 7 a.m. (Local time). They are provisional and subject to correction. Final and corrected stages will be published in the annual publication "Daily River Stages - Principal Rivers of the United States".

a	Obstructed by rough ice.	f	Shore ice.
b	Frozen but open at gage.	g	Floating ice.
c	Upper surface of smooth ice.	h	Pool stage.
d	Ice gorge above gage.	i	Dry at gage.
e	Ice gorge below gage.	j	Interpolated.

STATION INDEX

STATION	INDEX NO.	COUNTY	DRAINAGE	LAT.		LONG.		ELEV. (FT.)	TIME OF OBSERVATION			YEARS OF RECORD			OBSERVER	REFER TO TABLES
				°	'	°	'		ZONE	TEMP.	PRECIP.	TEMP.	PRECIP.	EVAP.		
Advance AP	0022	Stoddard	St. Francis	37	06	89	55	354	C	MID	MID	11	11		U.S.Airway Com. Sta.	2 3 4 5
Albany	0051	Gentry	Grand	40	15	94	20	930	C	6P	6P	7	19		William J. Butler	2 3 5
Alton 10 mi. SE	0122	Oregon	Black	36	41	91	24		C		6P		7		Dr. J. D. Brock	3
Alton 6 mi. ENE	0127	Oregon	Black	36	42	91	19		C				8		Loyd E. Black	3 4
Altona	0135	Bates	Osage	38	24	94	13		C		8A		12		Ina Chitty	3
Amity	0143	DeKalb	Grand	39	52	94	26	1620	C	6P	6P	2	13		O. M. Colhour	2 3 5
Amsterdam	0151	Bates	Osage	38	21	94	35		C				8		R. A. Kershner	3 4
Anderson 2 mi. SW	0164	McDonald	Neosho	36	39	94	21	1000	C	7A	7A	44	49		Samuel G.Chamberlain	2 3 5
Annapolis	0179	Iron	Black	37	20	90	47		C		7A		4		Opal G. Rutter	3
Appleton City	0204	St. Clair	Osage	38	13	94	05	800	C	6P	6P	53	56		F. Paul Eye	2 3 4 5
Arcadia	0224	Iron	St. Francis	37	35	90	37	926	C	7A	7A	67	70		Arcadia College	2 3 5
Ashton	0312	Clark	Mississippi	40	27	91	49		C						E. E. St.Clair	3 4
Auxvasse	0357	Callaway	Missouri	39	01	91	54		C		7A		5		C. H. Hook	3
Ava Ranger Sta	0365	Douglas	White	36	57	92	40		C		8A		3		U.S. Forest Service	3
Bedford	0503	Livingston	Grand	39	42	93	23		C				8		Harry S. Stephans	3 4
Belleview	0539	Iron	Meramec	37	41	90	44		C		7A		12		Edna M. Keesling	3 4
Bernie	0595	Stoddard	St. Francis	36	40	89	58		C		7A		3		Carrie P. Wicks	3
Bethany	0608	Harrison	Grand	40	15	94	02	916	C	6P	6P	53	55		B. A. McGregor	2 3 5
Birch Tree	0668	Shannon	Black	36	59	91	30	1000	C	5P	7A	53	54		Mildred E. Catlett	2 3 5
Black 9 mi. NW	0695	Iron	Black	37	36	91	03	1000	C	7P	7P	55	55		J. Cornell Shy	2 3 5
Bloomfield	0735	Stoddard	St. Francis	36	54	89	57		C		7A		3		R. Lynn Marine	3
Blue Lick	0747	Saline	Saline	38	59	93	12		C		7A				W. H. Jocoby	3
Bolivar	0789	Polk	Osage	37	37	93	25	1071	C	5P	5P	45	53		SW Baptist College	2 3 4 5
Boonville	0812	Cooper	Missouri	38	58	92	45		C		7A		71		Rufus W. Weed	3 7
Boonville Waterworks	0817	Cooper	Missouri	38	58	92	45	650	C	8A	8A	10	10		Boonville Water Dept	2 3 5
Bowling Green	0856	Pike	Mississippi	39	21	91	12		C		8A		18		Virgil Cook	3
Bradleyville	0878	Taney	White	36	46	92	53		C		7A		3		Elmer C. Hubbard	3
Brookfield	0980	Linn	Grand	39	47	93	05	767	C	8A	8A	7	7		G. F. Breen	2 3 5
Browning 3 mi. NE	1003	Linn	Grand	40	03	93	06		C		7P		5		Herman F. Kille	3
Brunswick	1037	Chariton	Grand	39	26	93	08	652	C	7A	7A	67	69		O. K. Benecke	2 3 5 7
Buffalo	1087	Dallas	Osage	37	38	93	05		C		8A		17		L. H. Howerton	3
Bunker	1101	Reynolds	Black	37	30	91	15		C		7A		4		C. D. Highley	3
Burlington Junction	1141	Nodaway	Missouri	40	26	95	04		C		7A				U. S. Reavis	3
Butler	1145	Bates	Osage	38	16	94	20	865	C	6P	6P	2	7		Harley W. Johnson	2 3 5
Camdenton	1212	Pulaski	Osage	38	03	92	47	940	C	4P	4P	2	2		Mo. Conserv. Com.	2 3 5
Campbell	1221	Dunklin	St. Francis	36	29	90	04	314	C	5P	5P	22	22		Ruth Christian	2 3 5
Canton Lock & Dam 20	1275	Lewis	Mississippi	40	08	91	31	488	C	7P	7A	10	18		Lockmaster	2 3 5
Cap Au Gris Lock & Dam 25	1283	Lincoln	Mississippi	39	00	90	41		E		7A		2		U.S. Engineers	3 4
Cape Girardeau Mo. State	1291	Cape Girardeau	Mississippi	37	18	89	32	347	C	5P	5P	3	3		State Teachers Col.	2 3 5
Cape Girardeau	1296	Cape Girardeau	Mississippi	37	18	89	32		C		7A		48		Lee L. Albert	3 7
Caplinger Mills	1304	Cedar	Osage	37	48	93	49		C	6P	6P		22		S. E. Price	2 3 5
Carrollton	1340	Carroll	Missouri	39	22	93	30	754	C	6P	6P	2	2		Barold E. Finley	2 3 5
Carthage	1356	Jasper	Spring	37	11	94	17	962	C	6P	6P	14	24		Carthage W&E Plant	2 3 5
Caruthersville	1364	Pemiscot	Mississippi	36	17	89	40	265	C	5P	7A	52	56		Victor T. Malloure	2 3 5 7
Cassville Ranger Sta	1383	Barry	White	36	41	93	52		C		8A		8		J. Alice Quillinan	3 4
Centerville	1467	Reynolds	Black	37	26	90	57		C		7A		3		Corda Jane Harrison	3
Centerville Ranger Sta	1472	Reynolds	Black	37	26	90	57		C		8A		12		U.S. Forest Service	3
Centralia	1482	Boone	Mississippi	39	12	92	08		C		8A		12		Earl W. Seymour	3
Chadwick	1490	Christian	White	36	56	93	03		C		7A		2		Sylvia Fletcher	3
Chillicothe 2 mi. S	1530	Livingston	Grand	39	45	93	33	771	C		7A		33		H. O. Dupy	3 7
Chillicothe AP CAA	1585	Livingston	Grand	39	47	93	30		C	MID	MID	39	42		U.S.Airway Com.Sta.	2 3 5
Clarksville Lock & Dam 24	1640	Pike	Mississippi	39	22	90	55		E						U.S. Engineers	3 4
Clearwater Dam Site	1674	Wayne	Black	37	08	90	47	648	C	4P	7A		8		U.S. Engineers	2 3 4 5
Clifton City	1704	Cooper	Missouri	38	45	93	02		C		7A				F. S. Needy	3
Clinton	1711	Henry	Osage	38	22	93	46	786	C	MID	MID	55	61		U.S. Weather Bureau	2 3 4 5
Columbia AP WBAS	1790	Boone	Missouri	38	58	92	22		C	MID	MID		8		U.S. Weather Bureau	
Columbia WBO	1795	Boone	Missouri	38	57	92	20	740	C	MID	MID	58	58		U.S. Weather Bureau	2 3 4 5
Columbia Univ of Mo.	1800	Boone	Missouri	38	59	92	28		C	5P	5P		4	4	Robert E. Lee	2 3 4 5
Conception	1822	Nodaway	Missouri	40	14	94	40	1108	C	5P	5P	59	64		Fr. Adelheim Hess	2 3 5
Concordia	1837	Lafayette	Missouri	38	59	93	34	783	C		7A		31		Lloyd Beissenberz	3
Cook Station	1870	Crawford	Meramec	37	48	91	27		C		7A		4		Thos. J. Gorman	3
Crane Mountain	1980	Iron	St. Francis	37	27	90	38		C		9A		4		Roy E. Thomlison	3
Crocker	2004	Pulaski	Osage	37	59	92	15		C		6P		17		Charles Iden	3
Crystal City	2031	Jefferson	Mississippi	38	13	90	23	420	C	5P	5P	14	14		Richard K. Ragland	2 3 5
Cuba	2043	Crawford	Meramec	38	04	91	24		C		7A		11		Rehm E. Thielecke	3
Deering	2156	Pemiscot	St. Francis	36	12	89	52		C		7A		6		Thomas N. Wood	3
De Sota	2220	Jefferson	Mississippi	38	09	90	34		C		7P		4		Roy E. Dewey	3
Dexter	2235	Stoddard	St. Francis	36	47	89	58		C		6A		24		J. L. Jackson	3
Doniphan	2289	Ripley	Black	36	37	90	49	344	C	6P	6P	44	44		Boyce Lackey	2 3 5
Doniphan 2 mi.W	2294	Ripley	Black	36	37	90	51		C		7A		3		Geo Baumgardner	3 7
Dora	2302	Ozark	White	36	46	92	13		C				8		Alta M. Deupree	3 4
Downing	2318	Schuyler	Mississippi	40	29	92	20		C		5P		7		Edward L. Beeler	3 4
East End	2406	Iron	Meramec	37	41	91	02		C		7A		4		C. O. Smith	3
Edgerton	2474	Platt	Missouri	39	30	94	37	856	C	7A	7A	28	45		Leroy H. Mindrup	2 3 5
Edina	2482	Knox	Mississippi	40	10	92	10		C		7A		19		Paul D. Pettit	3
Eldon	2503	Miller	Missouri	38	20	92	35	934	C	5P	5P	53	49		Arthur Rotbwell	2 3 5
Eldorado Springs	2511	Cedar	Osage	37	52	94	01		C		6P		18		Clyde J. Snodgrass	3
Elijab	2519	Ozark	White	36	36	92	09		C		7A		3		Loyd Price	3
Ellington	2547	Reynolds	Black	37	14	90	59		C		7A		8		S. Phronia Sanders	3 4
Ellsinore	2563	Carter	Black	36	56	90	45		C		5P		4		Clinton Sbeets	3
Elsberry	2591	Lincoln	Mississippi	39	10	90	47	449	C	8A	8A	17	17		Soil Conserv. Serv.	2 3 5
Eminence	2617	Shannon	Black	37	11	91	23	1250	C				7		Thomas J. Chilton	3 4
Fairfax	2729	Atcbison	Tarkio	40	20	95	24		C						Dillard A. Price	3
Farmington	2809	St. Francois	St. Francis	37	47	90	26	896	C	7P	6A	37	51		F. M. Karscb	2 3 4 5
Fayette	2823	Howard	Missouri	39	09	92	41	760	C	6P	6P	68	65		Irvin E. Scbnell	2 3 5

STATION INDEX — Continued

STATION	INDEX NO.	COUNTY	DRAINAGE	LAT.		LONG.		ELEV. (FT.)	TIME OF OBSERVATION			YEARS OF RECORD			OBSERVER	REFER TO TABLES
				°	′	°	′		ZONE	TEMP.	PRECIP.	TEMP.	PRECIP.	EVAP.		
Fisk	2881	Butler	St. Francis	36	47	90	12		C		7A		18		Charles E. Hargrove	3 7
Forsyth	2975	Taney	White	36	41	93	06		C		7A		8		Otto Kenyon	3 4 7
Fredericktown	3038	Madison	St. Francis	37	33	90	17		C		7A		23		R. H. Leslie	3
Fremont Tower	3052	Carter	Black	37	08	91	20		C		8A				Thelman Palmer	3
Fulton	3079	Callaway	Missouri	38	51	91	57	818	C	8A	8A	60	56		Frank E. Hillgartner	2 3 4 5
Galena	3094	Stone	White	36	48	93	28		C		7A		36		Maynard L. Stewart	3
Gallatin	3102	Daviess	Grand	39	55	93	57		C		7A		46		S. C. Poe	3 7
Gerald	3178	Franklin	Meramec	38	24	91	20		C		6P		7		Edwin H. Vernner	3
Granby	3341	Newton	White	36	55	94	15		C		7A		4		Mildred B. Hatcher	3
Grant City	3369	Worth	Grand	40	29	94	25	1134	C	6P	6P	44	56		J. Homer Korn	2 3 4 5
Greenville 1 mi. SW	3451	Wayne	St. Francis	37	06	90	27	415	C	5P	7A	39	41		C. L. Ruhottom	2 3 5
Hailey	3537	Barry	White	36	42	93	43		C		6P		27		William Madison	3
Hamden	3565	Chariton	Chariton	39	36	92	47		C				8		Mary M. White	3 4
Hannibal	3596	Marion	Mississippi	39	42	91	20	759	C		7A		6		P. B. Stelmann	3 7
Hannihal Waterworks	3601	Marion	Mississippi	39	41	91	20	759	C	MID	MID	56	64		Hannihal Water Dept.	2 3 5
Harris	3641	Sullivan	Grand	40	18	93	22		C				8		John E. Miller	3 4
Harrisonville	3649	Cass	Osage	38	39	94	20	904	C	7A	7A	70	73		Jeffrey B. Patterson	2 3 5
Hermann	3793	Gasconade	Missouri	38	42	91	25		C		7A		74		Joseph G. Rehsamen	3 7
High Lookout	3845	Shannon	Black	36	53	91	27		C		6P		4		John Scoville	3
Hornersville	3999	Dunklin	St. Francis	36	03	90	06		C				8		Sallie E. Perkins	3 4
Houston.	4021	Texas	Gasconade	37	20	91	53		C				8		Austin McKinney	3 4
Jackson	4226	Cape Girardeau	Mississippi	37	23	89	40	428	C	5P	5P	57	58		Danny Siebert	2 3 5
Jeff City Radio KWOS	4271	Cole	Missouri	38	35	92	12	557	C	6P	7A	58	66		KWOS Radio Farm	2 3 5
Jefferson City	4276	Cole	Missouri	38	34	92	11		C		7P		7		Rohert R. Henderson	3 4
Jerome	4291	Phelps	Gasconade	37	56	91	59		C		7A		46		G. A. Brinkley	3 7
Jewett	4299	Madison	St. Francis	37	23	90	29		C				8		Fred Goelkel	3 4
Joplin AP CAA	4315	Jasper	Neosho	37	10	94	30	988	C	MID	MID	26	43		U.S. Airway Com. Sta	2 3 5
Kahoka	4349	Clark	Mississippi	40	25	91	43		C		8A		19		Wesley E. Hayden	3
Kansas City AP WBAS	4359	Jackson	Missouri	39	07	94	35	741	C	MID	MID	59	59		U.S. Weather Bureau	2 3 4 5 7
K. C. Mo. St. John&Elmwood	4364	Jackson	Missouri	39	06	94	32		C		MID		6		Lester Applegate	3 4
K. C. Mo. 75th&Holmes	4369	Jackson	Missouri	39	00	94	35		C		MID		6		Lester Applegate	3 4
K. C. Mo. 37th&Raytown Rd	4374	Jackson	Missouri	39	03	94	30		C		MID		6		Lester Applegate	3 4
Kansas City Univ. of K. C.	4379	Jackson	Missouri	39	02	94	35	908	C	6P	6P	10	10		Univ. of Kansas City	2 3 4 5
Kidder	4481	Caldwell	Grand	39	47	94	06	1020	C	7P	7A	56	60		Geraldine Terry	2 3 5
King City	4505	Gentry	Missouri	40	03	94	31	1095	C		6P		40		John M. Martin	3
Kirksville	4544	Adair	Mississippi	40	12	92	34	969	C	6P	6P	59	66		Dow Jones	2 3 5
Kirksville AP CAA	4549	Adair	Mississippi	40	06	92	33	966	C	MID	MID	9	9		U.S. Airway Com. Sta	2 3 4 5
Koshkonong	4625	Oregon	Black	36	35	91	39	958	C	6P	7A	47	48		Genevieve T. Smith	2 3 5
La Belle	4637	Lewis	Mississippi	40	07	91	55		C		8A		18		James M. Fishhack	3
Lakeside	4694	Miller	Osage	38	12	92	37	595	C	7A	7A	17	17	15	W. S. Frame	2 3 4 5 6 7
Lamar	4705	Barton	Neosho	37	30	94	16	980	C	7A	7A	60	67		Marie Mann	2 3 5
Lampe Forest Service	4727	Stone	White	36	34	93	26		C		7A		7		Orley F. Scott	3
Lampe 4 mi. NNE	4732	Stone	White	36	38	93	24		C						Mrs. Addis O. Rogers	3 4
Lathrop 3 mi. SW	4773	Clinton	Grand	39	32	94	22	1080	C	6P	6P	1	1		E. L. Fisher	2 3 5
Lehanon	4825	Laclede	Osage	37	42	92	45	1265	C	7A	7A	60	61		Rosa E. Montelius	2 3 4 5
Lecoma 3 mi. N	4828	Dent	Meramec	37	49	91	44	1140	C						R. W. McCracken	3 4
Leeper	4844	Wayne	Black	37	04	90	42		C		7A		23		Orville A. Roberts	3 7
Lexington	4904	Lafayette	Missouri	39	11	93	53	688	C	7A	7A	63	64		William H. Cullon	2 3 5
Licking 4 mi. N	4919	Texas	Gasconade	37	29	91	52	1170	C	6P	7A	11	11		Fern E. Austin	2 3 5
Linneus	4978	Linn	Grand	39	50	93	12		C		5P		7		Merle Wade	3 4
Livonia	5014	Putnam	Chariton	40	29	92	42		C				8		Icel M. Tade	3 4
Lockwood	5027	Dade	Osage	37	23	93	57	1078	C	6P	7A	42	52		Hubert A. Nieman	2 3 4 5
Louisiana Starks Nur	5093	Pike	Mississippi	39	26	91	02	469	C	6P	6P	54	67		Stark Bros.Nurseries	2 3 5
Louisiana	5098	Pike	Mississippi	39	27	91	03		C		7A		5		Crewdson W.Dillender	3
Lucerne	5121	Putnam	Grand	40	27	93	18		C		9A		7		D. A. Browning	3 4
Macedonia Lookout	5164	Ripley	Black	36	45	90	54		C		7A		4		Roy C. Rohinett	3
Macon	5175	Macon	Chariton	39	45	92	28	875	C	7A	7A	49	55		John W. Atwell	2 3 4 5
Madison	5183	Monroe	Mississippi	39	28	92	12		C		8A		14		Enos Wood	3
Malden	5205	Dunklin	St. Francis	36	34	89	57		C				7		Rollie H. Kennard	3 4
Mansfield	5227	Wright	White	37	06	92	35		C		7A		3		Henry O. Brown	3
Marble Hill	5253	Bollinger	Mississippi	37	18	89	59	532	C	5P	5P	53	55		R. A. DeWitt	2 3 5
Marshall	5293	Saline	Missouri	39	07	93	11	779	C			61	58		Thomas A. Reid	2 3 5
Marshall AP CAA	5298	Saline	Missouri	39	06	93	12		C	MID	MID		8		U.S. Airway Com. Sta	2 3 4 5
Marsbfield	5307	Webster	White	37	20	92	54	1484	C	5P	5P	3	7		Sho-Me Power Co.	2 3 5
Martinsburg	5319	Audrian	Missouri	39	06	91	41		C		7A		4		H. Freese	3
Maryville	5340	Nodaway	Missouri	40	21	94	52	1169	C	6P	6P	58	54		R. B. Montgomery	2 3 5
Maryville 6 mi. NNW	5345	Nodaway	Missouri	40	25	94	53	1160	C						Earl W. Truehlood	3 4
McCredie	5410	Callaway	Missouri	38	58	91	58		C				8		Lelia B. Craig	3 4
McCredie Exp Station	5415	Callaway	Missouri	38	57	91	54		C		MID		8		U. S. Soil Conserv.	3 4
Memphis	5492	Scotland	Mississippi	40	27	92	10	787	C	7A	7A	9	18		John W. Alexander	2 3 5
Mercer 6 mi. NW	5519	Mercer	Grand	40	33	93	35		C		7A				Oscar L. Hartley	3
Mexico	5541	Audrain	Mississippi	39	10	91	53	800	C	7A	7A	59	70		D. N. Woods	2 3 5
Middletown	5565	Montgomery	Mississippi	39	07	91	26		C				.		Mary M. Angel	3 4
Milan	5578	Sullivan	Grand	40	12	93	07		C		7A		25		Charles E. Smith	3
Moberly AP 4 mi. NE	5671	Randolpb	Mississippi	39	28	92	25	860	C	8A	8A	11	11		Rohert J. Platter	2 3 4 5
Monett	5700	Barry	Neosho	36	53	93	55	1317	C	7A	7A	1	1		M. U. Fruit Exp. Sta	2 3 5
Monroe City	5708	Monroe	Mississippi	39	39	91	44		C		SS		25		J. S. Conway	3
Mora	5754	Benton	Missouri	38	32	93	13		C				8		Emma M. Meyer	3 4
Morehouse	5762	New Madrid	Mississippi	36	51	89	41		C		4P		37		J. A. Spence	3
Moselle	5816	Franklin	Meramec	38	23	90	54		C		8A		3		A. Lampert	3
Mountain Grove	5834	Wright	Gasconade	37	09	92	16	1463	C	5P	8A	47	1		M. U. Fruit Exp. Sta	2 3 4 5
Mount Vernon	5861	Lawrence	Neosbo	37	06	93	49	1174	C	5P	7A	36	48		John C. Heying	2 3 5
Neosho	5976	Newton	Neosho	36	52	94	22	1011	C	5P	5P	61	65		U.S. Fisheries Sta.	2 3 5
Nevada	5987	Vernon	Osage	37	50	94	21	862	C	6P	6P	55	56		Henry Kraft	2 3 4 5
New Florence AP 1 mi. SE	6007	Montgomery	Missouri	38	53	91	26	885	C	MID	MID	5	6		U.S.Airway Com. Sta.	2 3 4 5

STATION INDEX — Continued

STATION	INDEX NO.	COUNTY	DRAINAGE	LAT. °	LAT. ′	LONG. °	LONG. ′	ELEV. (FT.)	TIME OF OBSERVATION			YEARS OF RECORD			OBSERVER	REFER TO TABLES
									ZONE	TEMP.	PRECIP.	TEMP.	PRECIP.	EVAP.		
New Madrid	6040	New Madrid	Mississippi	36	35	89	31		C		6A		54		Wess Hensley	3 7
Oates Tower	6263	Reynolds	Black	37	32	91	03		C		7A		3		Ethel Sue Adams	3
Odessa	6269	Lafayette	Missouri	39	00	93	57		C		7A				William E. Dougherty	3
Oregon	6357	Holt	Missouri	39	59	95	09	1093	C	MID	MID	92	92		James M Curry	2 3 5
Osceola	6407	St. Clair	Osage	38	05	93	42		C		7A		7		Sam H. Simmons	3 4 7
Owensville	6438	Gasconade	Gasconade	38	21	91	30		C		8A		5		A. C. Poppenhouse	3 4
Ozark	6452	Christian	White	37	01	93	13		C		7A		3		William L. Reed	3
Ozark Beach	6460	Taney	White	36	40	93	07	700	C	8A	8A	8	23		Empire Dist. Elec. Co	2 3 5
Pacific	6468	Franklin	Meramec	38	29	90	44		C		7A		59		Arthur D. Lewis	3
Palmyra	6493	Marion	Mississippi	39	48	91	31		C		8A		42		Dan Hamlin House	3
Paris	6509	Monroe	Mississippi	39	29	92	00		C		8A		18		J. W. Reed	3
Parma	6532	New Madrid	St. Francis	36	37	89	48		C		7A		24		Laura E. Morgan	3
Pattonsburg	6563	Daviess	Grand	40	03	94	09		C				8		Wade D. Moody	3 4
Perry	6633	Ralls	Mississippi	39	25	91	41		C		5P		18		Guy R. Milton	3 4
Perryville	6641	Perry	Mississippi	37	44	89	51		C		6P		7		Werner T. Weber	3
Philadelphia	6667	Marion	Mississippi	39	50	91	44		C		4P		15		Lynn S. Feaster	3
Pierce City	6678	Lawrence	Neosho	36	57	94	00		C		5P		4		John P. Davis	3
Pineview Lookout	6700	Barry	White	36	42	93	37		C		8A				Charles M. Miller	3
Pleasant Hill	6748	Cass	Osage	38	48	94	17		C		6A		10		Dean T. Knorpp	3
Polo	6775	Caldwell	Missouri	39	33	94	03	1000	C	7A	7A	2	2		F. B. Albright	2 3 4 5
Poplar Bluff	6791	Butler	Black	36	45	90	24	339	C	7A	7A	43	44		Osmon M. Richardson	2 3 5
Potosi	6826	Washington	Mississippi	37	55	90	47		C				8		Arthur M. Riehl	3 4
Puxico	6934	Stottard	St. Francis	36	37	90	09		C		7A		3		Treval Pearman	3
Qulin	6970	Butler	St. Francis	36	36	90	14		C		7A		3		Torrence J. Johns	3
Reynolds	7094	Reynolds	Black	37	24	91	05		C		7A		4		Effie V. Hill	3
Richwoods	7122	Washington	Meramec	38	09	90	50		C		7A		5		Elma M. DeClue	3 4
Ridgeway	7130	Harrison	Grand	40	22	93	57		C				6		Keith Jackson	3 4
Roby	7214	Texas	Gasconade	37	30	92	08		C		6P		6		Roy E. Daniels	3
Rogersville	7255	Webster	White	37	07	93	03		C						Gladys C. Shockley	3 4
Rolla School of Mines	7263	Phelps	Gasconade	37	57	91	46	1202	C	9A	9A	48	64		Rolla School of Mines	2 3 4 5
Rolla 5 mi. SE	7264	Phelps	Meramec	37	54	91	43	1100	C						Walter W. Snelson	3 4
Rolla Missouri 3 mi. W.	7265	Phelps	Gasconade	37	57	91	50	865	C						Leslie H. Underwood	3 4
Rolla 4 mi. SE	7266	Phelps	Meramec	37	56	91	43	1040	C						Mrs. Hallen P. Light	3 4
Rolla 7 mi. S	7267	Phelps	Meramec	37	51	91	46	970	C						Gertrude Ponzer	3 4
Round Spring	7309	Shannon	Black	37	18	91	25		C		7A		4		C. E. Jones	3
Saint Charles	7397	St. Charles	Missouri	38	47	90	29	520	C	6P	7A	60	70		Myrtle Briegel	2 3 5 7
Saint James 3 mi. NW	7424	Phelps	Meramec	38	01	91	40	1005	C						William S. Jones	3 4
Saint Joseph AP WBAS	7440	Buchanan	Missouri	39	46	94	55	957	C		6A	38	76		U.S. Weather Bureau	2 3 4 5 7
Saint Louis AP WBAS	7455	Saint Louis	Missouri	38	45	90	23	556	C	MID	MID	11	17		U.S. Weather Bureau	2 3 4 5
Saint Louis WBO	7460	Saint Louis City	Mississippi	38	38	90	12	465	C		7A	111	111		U.S. Weather Bureau	2 3 4 5 7
Saint Louis Univ.	7465	Saint Louis City	Mississippi	38	38	90	14	578	C	MID	MID	36	36		St. Louis University	2 3 5
Saint Louis Wash. Univ.	7470	Saint Louis City	Mississippi	38	39	90	18		E	8A	8A		8	10	John Hopp, R.L. Brust	2 3 4 5 6
Saint Thomas	7497	Saint Louis City	Osage	38	22	92	13		C		7A		7		John Morff	3 7
Salem	7506	Dent	Meramec	37	38	91	33	1206	C	7A	7A	44	47		E. E. Martin	2 3 4 5
Salisbury	7514	Chariton	Chariton	39	26	92	48	723	C	6P	6P	2	2		David H. Robertson	2 3 5
Saverton Lock & Dam 22	7578	Ralls	Mississippi	39	38	91	16	472	C	7P	7A	10	10		Lockmaster	2 3 5
Sedalia	7632	Pettis	Missouri	38	42	93	14	910	C	5P	7A	35	37		Dr. J. E. Cannaday	2 3 5
Seligman	7645	Barry	Neosho	36	31	93	56	1542	C	7P	7A	47	45		Floyd E. Fawver	2 3 5
Seneca	7656	Newton	Neosho	36	50	94	57		C				3		Hosea N. Harrison	3 4
Seymour 4 mi. NE	7674	Webster	White	37	09	92	46	1642	C	7A	7A	42	42		Ira H. Hailey	2 3 5
Shelbina	7720	Shelby	Mississippi	39	42	92	03	779	C	6P	6P	7	55		Guyman Hatcher	2 3 5
Shelbyville	7728	Shelby	Mississippi	39	48	92	02		C		5P		17		Emmett L. Goe	3
Shell Knob	7740	Barry	White	36	37	93	35		C		8A		3		Lionel Jung	3
Sikeston	7770	Scott	Mississippi	36	53	89	35	318	C	7A	7A	41	51		Lucy W. Humphreys	2 3 5
Siloam Springs	7780	Howell	White	36	48	92	04		C		7A		4		Bess M. Byers	3
Skidmore	7813	Nodaway	Missouri	40	17	95	05		C				8		Nina B. Geyer	3 4
Spring City	7967	Newton	Neosho	37	00	94	32		C				8		Gladys J. Cameron	3 4
Springfield AP WBAS 4 mi.NW	7976	Greene	Osage	37	14	93	23	1265	C	MID	MID	60	60		U.S. Weather Bureau	2 3 4 5
Stanberry	8003	Gentry	Grand	40	12	94	33		C				6		R. Trueman Wagers	3 4
Steelville	8043	Crawford	Meramec	37	59	91	22		C		7A		7		William Diehl	3 4
Steffenville	8051	Lewis	Mississippi	39	58	91	53	650	C	6P	6P	50	55		Fannie V. Gross	2 3 4 5
Stover	8112	Morgan	Missouri	38	26	93	02		C		7A		24		H. Kyle Vickery	3
Sugar Camp Lookout	8160	Barry	White	36	32	93	50		C		8A				Ralph L. Richardson	3
Sullivan 3 mi. NE	8171	Washington	Meramec	38	13	91	06		C		7A		7		George J. Hussman	3 4 7
Summersville	8184	Texas	Black	37	11	91	40		C		7A		4		Roy W. Wall	3
Sweet Springs	8223	Saline	Missouri	38	58	93	25	700	C	6P	6P	7	7		H. F. Nelson	2 3 5
Tarkio AP CAA	8289	Atchison	Missouri	40	27	95	22	916	C	MID	MID	45	54		U.S. Airway Com. Sta.	2 3 4 5
Tecumseh	8313	Ozark	White	36	35	92	17		C		7A		3		Tom Chandler	3
Topaz	8412	Douglas	White	36	56	92	12		C		8A		4		C. M. Loyd	3
Trenton	8444	Grundy	Grand	40	05	93	37	822	C		7A	52	53		W. H. Estes	2 3 4 5 7
Troy	8456	Lincoln	Mississippi	38	59	90	59		C		7A		17		Robert L. Nichols	3
Union 2 mi. SE	8515	Franklin	Meramec	38	27	91	00	520	C	6P	7A	10	31		Cornelius Sieges	2 3 5 7
Unionville	8523	Putnam	Chariton	40	38	93	00	1062	C	6A	6A	55	55		George D. Choate	2 3 5
Valley Park	8561	Saint Louis	Meramec	38	33	90	30		C		7A		31		Nathaniel W. Henlon	3 7
Van Buren	8569	Carter	Black	36	59	91	01		C		7A		11		Merle A. Smith	3
Vandalia	8577	Audrain	Mississippi	39	19	91	30	766	C	5P	5P	4	9		Naomi K. Stoutz	2 3 5
Vanzant	8585	Douglas	White	36	56	92	16		C		7A		4		C. D. Smith	3
Vichy 2 mi. SE	8612	Maries	Meramec	38	05	91	44	1040	C						Virginia F. Huffman	3 4
Vichy AP CAA 2 mi. NW	8614	Maries	Gasconade	38	08	91	46	1125	C	MID	MID	12	13		U.S. Airway Com. Sta.	2 3 5
Villa Ridge	8630	Franklin	Missouri	38	29	90	55		C				8		Vincent Hellman	3 4
Waco	8664	Jasper	Spring	37	15	94	36		C		7A		2		Lester O. Sigars	3
Wappapello Dam	8700	Butler	St. Francis	36	55	90	17	475	C	8A	8A	9	9		U.S. Engineer Office	2 3 4 5
Warrensburg Central T C	8712	Johnson	Missouri	38	46	93	44	878	C	5P	5P	61	68		Central Teachers Col.	2 3 5
Warrensburg 5 mi. E	8717	Johnson	Missouri	38	45	93	39		C				8		Leah P. Prussing	3
Warrenton	8725	Warren	Mississippi	38	49	91	08	880	C	5P	5P	66	58		W. T. Zimmerman	2 3 4 5

STATION INDEX — Continued

STATION	INDEX NO.	COUNTY	DRAINAGE	LAT. °	LAT. ′	LONG. °	LONG. ′	ELEV. (FT.)	ZONE	TIME OF OBSERVATION TEMP.	TIME OF OBSERVATION PRECIP.	YEARS OF RECORD TEMP.	YEARS OF RECORD PRECIP.	YEARS OF RECORD EVAP.	OBSERVER	REFER TO TABLES
Warsaw No. 1	8733	Benton	Osage	38	15	93	21	687	C	5P	7A		53		Dora Johnson	2 3 5
Warsaw No. 2	8738	Benton	Osage	38	15	93	21		C		8A		31		Ruth A. Pierce	3 7
Washington	8746	Franklin	Missouri	38	31	91	00		C				8		Joe Ludewig	3 4
Wasola	8754	Ozark	White	36	48	92	34	1294	C	7P	7A	7	8		A. W. Pinckney	2 3 4 5
Waverly	8768	Lafayette	Missouri	39	13	93	31		C		8A		33		Gene Hardwick	3 7
Waynesville 2 mi. E	8777	Pulaski	Gasconade	37	50	92	11	805	C	7P	7P	2	2		Fred M. Sanderson	3
Webster Groves	8791	Saint Louis	Mississippi	38	35	90	22	507	C	7P	7P	2	3		R. W. Lawrie	2 3 5
Weingarten	8799	Saint Genevieve	Mississippi	37	53	90	13	833	C	5P	5P	7	8		William J. Miller	2 3 5
West Plains	8880	Howell	Black	36	44	91	51	1005	C	MID	MID	11	11		U.S. Weather Bureau	2 3 4 5
Williamsville	8984	Wayne	Black	36	58	90	33		C		7A		24		George W. Julian	3
Willow Springs	8995	Howell	White	36	59	91	59	1238	C	6P	7A	7	41		Allen Frazee	2 3 5
Willow Springs Forest S	9000	Howell	Black	36	59	91	59		C				6		U.S. Forest Service	3 4
Windsor 3 mi. NW	9032	Henry	Osage	38	34	93	33		C		6A				Logan Sutherland	3
Zalma	9173	Bollinger	Mississippi	37	09	90	04		C		7A		11		Louis A. Dobbs	3

REFERENCE NOTES

The four digit identification numbers in the index number column of the Station Index are assigned on a State basis. There will be no duplication of numbers within a state.

Stations appearing in the Index, but for which data are not listed in the tables, are either missing or received too late for inclusion in this issue.

Delayed data and corrections will be carried only in the June and December issues of this bulletin.

When hourly precipitation is accumulated over a period of three or more calendar days, with unknown hourly or daily distribution, the first and last days are shown in Table 4.

When hourly precipitation is missing for several days, only the first and last days are shown in Table 4.

Unless otherwise indicated, dimensional units used in this bulletin are: temperature in °F., precipitation and evaporation in inches, river stages in feet, and wind movement in miles.

Data in Tables 3, 5 and 6 are for the 24 hours ending at time of observation. See the Station Index for observation time.

-	No record.
+	And also on later dates.
*	Amount included in following measurement, time distribution unknown.
//	Gage is equipped with wind shield.
6	Precipitation measured at 6-hourly intervals, no recording gage.
B	Adjusted to a full month.
m	One or more days of record missing. See Table 5 for detailed daily record.
r	Station equipped with recording gage only. All amounts in Table 3 are for the non-recording gages, except for stations with this reference.
T	Trace, an amount too small to measure.
z	Hourly amounts from recording gage at the same site may be found in Table 4.
SS	This entry in time of observation column in Station Index means observation made near sunset.

Table 4 data formerly published in Missouri River, Upper Mississippi, Lower Mississippi West Gulf, and South Pacific Hydrologic Bulletins. Amounts in this table are from recording gages. Traces are not shown.

Subscription Price: 15¢ per copy; $1.50 a year. (Yearly subscription includes Annual Summary). Correspondence regarding subscriptions should be addressed to the Weather Records Processing Center, 811 Fidelity Building, Kansas City, Missouri.

W. B. O. --- Washington, D. C. --- 12-17-48 --- 1400

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CLIMATOLOGICAL DATA

MISSOURI

FEB 18 1949

OCTOBER 1948

Volume LII No. 10

NAT. HIST.

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MISSOURI - OCTOBER, 1948

H. F. Wahlgren, Section Director - Saint Louis

GENERAL SUMMARY

This month averaged both colder and drier than normal but it was a favorable month for seasonal outdoor activities and for maturing, harvesting and seeding of fall crops.

It was the coldest October since 1932, for the State as a whole, and averaged 9.4° colder than October a year ago. All divisions of the State had monthly averages lower than normal, viz.:- Northern, 54.4°, -1.7°; Southwestern, 56.8°, -1.7°; Southeastern, 56.2°, -2.5°; for the State, 55.8°, -2.1°. Extremes of temperature for the month were well within the extremes previously established for October. The 1st, 5th, 13th, and 14th were the warmest days during the month and the 18th was the coldest day, as a rule. The first general killing frost of autumn occurred on the 18th, ending the 1948 growing season, which was longer than usual this year. Many stations in the Northwestern quarter of the State had their first killing frost on the 17th. The only extended and pronounced warm period during the month occurred during the last week.

Precipitation during October was all in the form of rain, no snowfall being reported anywhere in the State. The distribution was irregular, ranging from a total of 4.53 inches at St. Louis Airport to only 0.76 inch at Neosho, but the frequency was exactly normal, rain occurring on an average of 6 days during the month. However, amounts were generally deficient and the monthly average of 2.40 inches for the State was 0.56 inch less than normal. The monthly averages by divisions, with departures from normal were:-Northern, 2.22 inches, -0.46 inch; Southwestern, 2.40 inches, -0.74 inch; Southeastern, 2.58 inches, -0.47 inch. Several stations in each of the three divisions of the State received monthly totals in excess of normal, but the excesses were, as a rule, less than one inch. Heaviest amounts occurred on the 6th and 7th and on the 30th and 31st, when over an inch of rain fell at a number of stations.

No damaging storms of any kind and no floods in any of the larger streams or rivers of the State, occurred during October.

Miscellaneous Phenomena reported were as follows:-Aurora on 17th. Heavy fogs on 4th, 5th, 9th, 11th, 12th, 20th, 22d, 23d, 24th, 25th, 26th, 30th, and 31st. Killing frosts on 17th and 18th. Light hail on 29th at Maryville, and on 30th at Albany and Kansas City Airport. Moderate hail on 16th at Chillicothe Airport; on 30th at University of Kansas City; on 31st at Kirksville Airport. Sleet, locally on 10th.

Ideal autumn weather during most of October permitted seeding of all small grain crops and most of this work was completed during the month, but germination and growth were retarded somewhat, especially in the southwestern portion of the State, by the rather dry weather. A somewhat larger than normal acreage was sown to wheat this fall. All crops had safely matured by the time of occurrence of the first killing frosts on the 17th and 18th and no damage was done to staple crops as a result of the general frost and freeze. The corn crop was being harvested throughout the month and yields per acre were setting a new record in many areas of the State, particularly in the northwestern portion. The crop as a whole was exceptionally good, both in quality and quantity. Harvest of a record soybean crop was in progress during the month with yields per acre also establishing a new record. Cotton picking made good progress during October and this crop, too, was expected to be the largest ever produced in the cotton growing areas of the southeastern portion of the State. Pastures deteriorated considerably from lack of moisture, until the closing days of the month, but were still providing more grazing than at this time last year. Open weather and lack of snowfall permitted range of pastures and grazing lands throughout the month and dry feeding was reduced to a minimum. As the month ended generous amounts of rains had fallen, or were falling, which greatly relieved the drier areas of the State, particularly the southwest and central portions. - M.R.W.

TEMPERATURE

The monthly mean for the State, 106 stations reporting, was 55.8°, or 2.1° lower than the 61-year October average. The highest monthly mean was 60.6° at Caruthersville, and the lowest was 52.1° at Tarkio and Unionville. The highest reported was 86° at Marshfield on the 5th, and the lowest was 18° near Anderson on the 18th.

PRECIPITATION

The average for the State, based on reports from 106 stations, was 2.40 inches, or 0.56 inch less than the 61-year October average. The greatest monthly amount was 4.53 inches at St. Louis Airport, and the least was 0.76 inch at Neosho. The greatest amount reported in an observational day was 2.34 inches at Burlington Junction on the 30th. The average number of days with 0.01 inch, or more, was 6.

There was no snowfall reported anywhere in the State.

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ACKNOWLEDGMENTS

In addition to the climatological data from some 6,000 Weather Bureau and cooperative weather stations, this bulletin series contains records from Hydroclimatic Network Stations which were formerly reproduced in the Hydrologic Bulletin Series. The Hydroclimatic Network is a nationwide net of rain gages -- mostly of the recording type which produce continuous records of precipitation. It was established in 1939 at the request of the Corps of Engineers, Department of the Army, to supplement existing precipitation stations in order to provide records of rainfall intensity which were essential to the planning of flood control and related works by the Corps of Engineers. This Network, now numbering about 2,000 recording, and 1,000 nonrecording rain gages, has been maintained by the Weather Bureau through working funds transferred annually to the Weather Bureau by the Corps of Engineers. These transfers averaged about $250,000 per year between 1940 and 1944, and nearly $375,000 since that date. For the years 1940-42, the Department of Agriculture transferred about $100,000 per year to provide data required in its work, and since 1947 the Bureau of Reclamation has transferred about $25,000 per year to meet the increasing needs of their program in the Western States.

Previous to the introduction of this bulletin series, data from Hydroclimatic Network stations were presented in bulletins (Hydrologic Bulletins) which were issued monthly for each of 8 drainage areas embracing the entire United States, but since the Network was established to meet the internal requirements of the Federal agencies referred to above, no provision was made for public dissemination of the data, distribution being limited to cooperating agencies and to certain public repositories. A list of locations where reference copies of the Hydrologic Bulletin Series are available for inspection may be obtained upon application to Chief, U. S. Weather Bureau, Washington 25, D. C.

Many other records published in this bulletin have been made available through the cooperation of various public offices, private agencies, and individuals as listed in the Station Index.

PRESSURE, WIND, HUMIDITY, SUNSHINE, DEGREE DAYS

STATIONS	SEA LEVEL PRESSURE EXTREMES—INCHES				WIND				RELATIVE HUMIDITY AVERAGES				SUNSHINE	DEGREE DAYS 65° BASE
	HIGHEST	DATE	LOWEST	DATE	AVERAGE SPEED M.P.H.	MAXIMUM SPEED M.P.H.	DIRECTION	DATE	1:30A EST	7:30A EST	1:30P EST	7:30P EST	PERCENT OF POSSIBLE	
Columbia WB City	30.48a	17	29.54a	6	6.2	21	NW	17	75a	84a	54a	60a	76	279
Kansas City WB Airport	30.55	17	29.49	6	8.4	34	W	6	64	76	43	46	75	238
Saint Joseph WB Airport	30.55	17	29.48	6	6.8	29	NW	15+	77	83	46	55	71	310
Saint Louis WB City	30.46a	24	29.55a	7	9.4	29	S	6	76a	78	51	60a	72	243
Springfield WB Airport	30.51	17	29.55	6	10.5	29	NW	17	72	82	47	55	71	262

a-- airport data

TABLE 1

COMPARATIVE DATA

YEAR	TEMPERATURE			PRECIPITATION		
	MEAN	HIGHEST	LOWEST	AVERAGE	AVERAGE SNOWFALL	DAYS WITH .01 OR MORE
1888	53.6	89	24	2.72		6
1889	53.8	91	22	2.32		5
1890	54.8	91	20	2.35		7
1891	55.7	92	20	1.05		5
1892	57.5	95	16	2.40	0	5
1893	56.7	95	16	1.12		3
1894	57.6	94	18	1.82	T	6
1895	51.2	89	14	0.42	T	2
1896	54.1	90	19	2.48	0	5
1897	62.5	99	23	0.74	0	3
1898	53.5	95	19	4.35	1.4	8
1899	62.4	100	24	3.16	0	5
1900	62.4	92	25	3.96	0	7
1901	60.1	96	24	1.69	0	6
1902	59.5	88	23	2.41	0	5
1903	57.3	90	19	3.06	0	6
1904	57.6	90	19	0.88	0	3
1905	55.1	90	20	4.85	0.3	10
1906	56.3	94	17	1.06	0	5
1907	56.7	94	18	2.93	0	7
1908	56.3	92	21	2.39	0.8	5
1909	57.2	96	20	2.72	T	6
1910	59.4	94	15	2.97	0	5
1911	56.9	96	25	3.16	0.2	8
1912	59.1	97	21	3.78	0.7	6
1913	54.7	93	11	4.65	3.3	9
1914	59.2	88	19	4.59	0	7
1915	59.8	95	22	1.22	0	3
1916	58.0	95	20	2.12	0.3	6
1917	49.8	93	12	1.15	0.2	6
1918	60.6	95	28	3.45	0	7
1919	58.4	98	17	7.07	0	11
1920	61.3	93	18	3.14	T	7
1921	57.9	92	24	2.15	0	5
1922	59.9	97	18	2.04	0	5
1923	53.0	89	17	3.55	0.1	9
1924	61.8	92	21	1.22	0	4
1925	48.6	92	-3	4.98	2.4	10
1926	57.3	93	21	4.73	0	9
1927	60.9	93	26	4.59	0	5
1928	60.9	94	22	3.82	0	8
1929	57.2	91	23	5.36	T	10
1930	55.3	92	11	3.09	T	6
1931	61.7	95	27	3.37	0	8
1932	55.7	90	22	3.54	0	5
1933	56.4	86	23	2.90	0	7
1934	61.1	90	24	2.50	0	4
1935	57.1	90	21	3.47	T	10
1936	56.7	89	20	3.55	T	8
1937	56.3	98	15	2.44	T	7
1938	63.9	99	19	1.23	0	3
1939	61.1	100	19	1.89	0	6
1940	63.0	94	28	1.73	0	6
1941	61.6	92	20	10.14	T	17
1942	58.0	90	13	2.97	0	6
1943	56.3	90	19	3.23	0	7
1944	59.6	92	25	1.68	0	4
1945	56.8	85	23	2.18	0	6
1946	61.1	92	24	3.02	0	6
1947	65.2	94	29	3.83	0	7
1948	55.8	86	18	2.40	0	6
PERIOD	57.9	100	-3	2.95	0.2	6

See reference notes following Station Index.

Table 2

CLIMATOLOGICAL DATA

MISSOURI
OCTOBER 1948

Station	Temperature								Precipitation									
							No. of Days						Snow, Sleet, Hail			No. of Days		
	Average	Departure from Normal	Highest	Date	Lowest	Date	Max. 90° or above	Min. 32° or below	Total	Departure from Normal	Greatest Day	Date	Total	Max. Depth on Ground	Date	.01 or more	.25 or more	1.00 or more
NORTHERN DIVISION																		
Alhany	54.1		79	1	22	18		8	2.15	- .64	1.22	6				4	2	1
Amity	55.2		79	1	28	17+		4	2.40	.27	1.17	30				4	2	2
Bethany	52.6	-2.2	77	1	24	24		11	2.74	- .18	1.61	30				3	2	2
Brookfield	55.5		84	2	25	18		5	1.26		.99	7				3	1	
Brunswick	54.4	-0.9	78	14+	26	18+		2	1.34	-1.66	.88	7				6	1	
Canton Lock & Dam 20	53.5	-5.3	77	15	24	18		3	1.83	- .43	1.59	7				6	1	1
Carrollton	53.4		81	1	24	18		6	2.02		.75	6				7	4	
Chillicothe AP CAA	53.8	-1.2	80	1+	22	18		4	.92	-2.22	.62	6				6	1	
Columbia WB Airport	55.3		79	1+	28	18		2	2.78		.94	16				7	4	
Columbia WB City	56.0	-0.9	82	1	28	18		2	3.23	.62	1.19	6				6	3	1
Columhia Univ of Mo	54.6		82	1	24	18		4	2.92		.92	6				10	4	
Conception	55.6	0.2	80	1	25	17		4	1.87	-1.01	1.00	6				4	2	1
Edgerton	53.9	-2.4	82	1+	22	18		11	1.04	-1.58	.54	30				3	2	
Elsherry	52.5	-5.0	82	14	19	18		9	3.60	1.09	1.09	31				7	5	1
Fayette	55.0	-1.4	82	1	25	18		1	2.25	- .64	1.04	6				6	2	1
Fulton	53.5	-3.9	81	2	24	18		4	3.08	- .34	1.20	7				7	5	1
Grant City	54.1	-1.0	77	1	24	17		5	1.87	-1.17	1.06	6				4	2	1
Hannibal Waterworks	54.4	-1.6	80	1	25	18		2	2.56	.17	1.09	6				6	4	1
Kansas City WB Airport	57.3	-0.4	80	1+	32	18		1	1.89	- .80	.94	30				5	2	
Kidder	54.2	-1.6	80	1	26	17		2	1.43	-1.64	.99	7				5	2	
Kirksville	54.4	-0.3	79	1	22	18		3	1.26	-1.90	.90	6				4	1	
Kirksville AP CAA	53.2		79	1	22	18		4	1.46		1.14	6				4	1	1
Lathrop 3 SW	56.1		80	1	26	18		3	1.64		.82	6				5	2	
Louisiana Starks Nursery	54.6	-1.6	83	1	20	18		6	2.47	- .81	1.07	7				9	4	1
Macon	53.0	-3.3	81	2	25	18		6	2.14	- .75	1.60	7				8	1	1
Maryville	53.5	0.0	76	1	24	17		3	3.56	.59	1.83	30				4	2	2
Memphis	54.2		80	2	24	18		6	1.23	- .70	1.21	7				2	1	1
Mexico	54.6	-1.7	83	2+	25	18		3	3.08	.01	1.32	7				9	4	1
New Florence AP 1 SE	53.9		81	1	23	18		2	3.47		1.02	6				7	4	2
Oregon	56.1	1.0	78	15	27	17		2	2.24	- .51	1.05	30				4	3	1
Polo	54.5		79	2	29	18		2	1.84		.98	7				4	2	
Saint Charles	56.5	-1.7	83	1	27	18		1	4.09	.91	1.18	7				7	5	1
Saint Joseph WB Airport	55.1	-0.9	78	1+	27	18		4	2.06	- .83	.96	6				5	2	
Salisbury	55.7		81	1+	26	18		1	1.44		.86	6				5	2	
Saverton Lock & Dam 22	54.2		79	13	24	18		2	2.28	-1.15	1.31	7				9	2	1
Shelbina	54.3		79	1	24	18		3	2.45	- .16	.85	6				6	4	
Steffenville	54.1	-3.3	80	1	23	18		3	1.93	- .80	1.05	7				8	2	1
Tarkio AP CAA	52.1	-2.7	79	15	24	17+		13	2.92	.11	1.52	29				3	2	2
Trenton	55.9	0.0	80	1	25	18		2	1.31	-1.82	.81	7				4	2	
Unionville	52.1	-3.1	80	1	22	18		4	1.24	-1.89	.94	7				4	1	
Vandalia	53.8		82	1	22	18		4	3.00		1.32	7				8	4	1
Warrenton	54.7	-1.3	83	1	22	18		6	3.13	- .31	1.02	7				10	3	1
DIVISION	54.4	-1.7							2.22	- .46								
SOUTHWESTERN DIVISION																		
Anderson 2 SW	55.2m	-3.5	83	15	18	18		8	.88	-3.01	.33	15				5	1	
Appleton City	57.5	-1.4	84	14	24	18		2	2.22	- .74	.81	16				5	2	
Bolivar	57.8	-0.8	84	1	27	18		1	2.97	- .28	1.62	31				8	3	1
Boonville Waterworks	53.8	-5.6	80	2	28	18		3	2.59	- .63	1.25	7				6	2	1
Butler	56.2		84	1	24	18		4	2.06		.80	16				4	2	
Camdenton	59.7		85	1	26	18		1	3.58		1.24	7				8		
Caplinger Mills	56.7		84	15	24	18		5	3.99	.11	1.81	31				6	4	1
Carthage	57.0		82	15	24	18		2	2.34		1.06	31				5	3	1
Clinton	57.1	-1.8	85	1	26	18		2	2.29	-1.16	.99	6				5	3	
Eldon	56.8	-0.6	83	1	27	18		1	2.41	-1.29	.75	16				7	4	
Harrisonville	57.4	1.3	82	2	30	18		1	2.96	- .01	1.13	16				6	4	1
Jeff City Radio KWO	54.0	-2.8	82	1	23	18		6	2.83	- .54	.95	7				11	5	
Joplin AP CAA	58.4	-1.8	84	15	28	18		1	1.17	-2.28	.62	6				4	2	
Kansas City Univ of	57.0	-4.2	81	1	25	18		4	1.73	-1.21	.66	6				5	3	
Lakeside	55.5	-4.3	84	2	26	18		4	3.26	.45	1.07	7				8	4	1
Lamar	55.9	-3.0	82	16	25	18		5	2.08	-1.53	.73	31				6	3	
Lehanon	57.5	-0.2	82	1	23	18		1	3.42	- .35	1.00	17				7	5	1
Lexington	56.4	-1.1	83	2	32	18		1	1.52	-1.51	.88	7				6	1	
Lockwood	57.9	-0.8	83	15	27	18		3	1.19	-2.71	.68	7				4	2	
Marshall AP CAA	53.5	-3.1	81	1	24	18		8	1.83	-1.30	1.15	6				5	3	1
Marshfield	55.9		86	5	23	18		3	3.18		1.01	31				7	4	1
Monett	57.5m		81	18	31	18		2	2.41		.72	6				6	4	
Mountain Grove	57.5	-0.1	83	1	25	18		1	2.68	- .78	.90	7				6	3	
Neosho	57.5	-1.7	83	15	21	18		6	.76	-2.93	.29	6				5	1	
Nevada	58.8	1.2	85	1	26	18		3	3.88	.81	1.72	31				5	4	1
Ozark Beach	57.9		86	1	27	18		2	1.72	-2.15	1.03	7				5	2	1
Sedalia	57.4	-0.3	81	1+	30	18		1	3.29	.61	1.74	17				8		
Seligman	57.4	-1.6	82	15	33	17			1.35	-2.11	.40	7				5	3	
Seymour 4 NE	53.8m	-3.6	84	1					3.24	- .24	1.24	17				4	4	1
Springfield WB Airport	56.7	-0.9	80	15	25	18		1	2.52	-..53	1.15	31				5	3	1
Sweet Springs	55.0		84	1	24	18		6	2.19		.80	16				6	4	
Warrenshurg Central T C	58.4	0.4	84	1	31	18		1	1.82	-1.20	.90	16				5	2	
Warsaw No 1	57.6	-1.4	85	1	26	18		6	3.06	- .74	.95	7				7	5	
Wasola	57.9		83	1	26	18		2	2.31		.78	17				5	3	
DIVISION	56.8	-1.7							2.40	- .74								
SOUTHEASTERN DIVISION																		
Advance AP	54.9	-4.3	80	13+	25	18		6	2.39	- .22	1.54	16				6	2	1
Arcadia	53.5	-2.5	78	21	22	18		7	2.34	-1.11	1.44	17				3	2	1
Birch Tree	55.2	-3.2	82	1	20	18		7	2.04	-1.24	.84	17				5	3	
Camphell	58.0m	-2.1							1.36	-1.74	.60	31				5	2	
Cape Girardeau Mo State	58.6		80	1+	28	18		1	2.68	- .62	1.04	16				6	3	1

See reference notes following Station Index.

Station	Temperature								Precipitation									
							No. of Days						Snow, Sleet, Hail			No. of Days		
	Average	Departure from Normal	Highest	Date	Lowest	Date	Max. 90° or above	Min. 32° or below	Total	Departure from Normal	Greatest Day	Date	Total	Max. Depth on Ground	Date	.01 or more	.25 or more	1.00 or more
Caruthersville	60.6	-1.6	83	15	33	18			3.86	.50	2.25	31				5	1	1
Clearwater Dam Site	57.1		82	13	27	18		2	2.04		.85	31				4	3	
Crystal City	55.4	-3.0	83	13	22	18		6	2.97	.20	.82	7				8	4	
Doniphan	56.4	-2.1	83	13	22	18		8	2.13	- .93	.62	31				5	4	
Farmington	55.2	-1.6	82	13	22	18		2	2.75	- .69	1.30	17				6	3	1
Greenville 1 SW	55.8	-1.8	82	1	22	18		8	1.91	-1.37	.63	31				6	3	
Jackson	56.9	-1.0	82	13+	25	18		3	2.64	- .88	1.09	16				6	4	1
Koshkonong	59.6	0.0	82	1	28	18		1	1.40	-1.82	.52	7+				3	3	
Licking 4 N	54.6m	-4.2	80	1+					3.58	.27	1.60	31				3	3	2
Marble Hill	53.5	-4.7	82	13	20	18		12	2.64	- .78	.83	16				6	4	
Poplar Bluff	57.8	-2.3	83	15	25	18		3	1.78	-1.88	.80	31				4	3	
Rolla School of Mines	56.8	0.3	82	14	28	18		1	2.94	- .52	1.19	7				6	4	1
Saint Louis WB Airport	55.8	-1.5	81	13	28	18		1	4.53	1.11	1.51	16				9	6	1
Saint Louis WB City	57.5	-1.3	81	1	33	18			2.25	- .47	.61	6				9	4	
Saint Louis Univ	57.2	-1.4	80	13	31	18		1	2.20	- .96	.65	16				9	4	
Saint Louis Wash Univ	55.4	-5.3	82	2	26	18		1	2.60	- .09	.82	17				7	4	
Salem	54.5	-3.1	81	14	22	18		6	3.86	.24	1.45	17				4	3	2
Sikeston	56.8	-2.5	82	14+	25	18		2	1.26	-2.01	.95	31				5	1	
Union 2 SE	53.6	-5.9	81	1+	22	18		8	3.62	.14	1.46	7				7	5	1
Vichy AP CAA 2 NW	55.8		80	13	29	18		2	3.44		1.14	6				6	4	1
Wappapello Dam	57.4		81	2+	30	18		2	2.67	- .61	1.48	17				4	3	1
Webster Groves	54.1		80	1	23	18		2	2.67		.79	7				9	4	
Weingarten	56.9		82	13	25	18		1	2.77		1.02	17				7	3	1
West Plains	55.8	-3.1	82	1	24	18		6	2.05	-1.17	.74	16				5	4	
Willow Springs	55.0		78	1+	23	18		3	2.17	-1.15	.94	7				4	3	
DIVISION	56.2	-2.5							2.58	- .47								
STATE	55.8	-2.1							2.40	- .56								

DAILY PRECIPITATION

Table 3

Station	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Total
Advaocs AP z						.16	T				.02					1.54	.09				T									.38	.20	2.39
Albaoy						1.22	.03			T					T														.03	.87		2.15
Altoo 6 ENE r						.43										.25	.09													.37	.14	1.28
Altona						.30	.38									.90														.50		2.08
Amity						1.16	.04	.03		T						T													T	1.17		2.40
Ameterdam r						.55									.13	.91														.75		2.34
Aodersoo 2 SW							.24								.33		.10				.18	.03										.88
Annapolis							.65									.01	.88					.11									.50	2.15
Applstoo City z						.62	.16									.81														.59	.04	2.22
Arcadia											T						1.44					.05									.85	2.34
Ashtoo r						1.65	.15																							.10		1.90
Auxvasse						.83	.47			.19	.28					.87					.05									.33	.46	3.46
Bedford r						.80	.09								.25						.02									.35		1.51
Belleview z	.02					.76					.03					.13	1.11					.25									.78	3.08
Bernie							.30										.50														1.40	2.20
Bethany						1.08	.05	T																					T	1.61		2.74
Birch Tree							.70										.84				.04	.06									.40	2.04
Bloomfield							.25										.70														.70	1.65
Blue Lick							.90									.45	.39													.20		1.94
Bolivar z						.61	.24				.03		T			.10	.02				.06									.29	1.62	2.97
Boonville							1.33				.09					.79	.11				.04									.05	.16	2.57
Boonvills Waterworks							1.25				.09					.85					.15									.10	.15	2.59
Bowling Grseo							1.22	.05			.22					.29		.22			.04									.30	.54	2.88
Bradleyville						.84												.61			.18	.06									.36	2.05
Brookfield							.99	.09																						.18		1.26
Browning					T	.86	.09	T		T						T					T								T	.18		1.13
Brunswick					T		.88	.03								.08	.15				.03									.17		1.34
Buffalo							.92				.06					T	.18				T	.11								.04	1.32	2.63
Bunker							.89										.24						.05							.15	.85	2.18
Burliogtoo Junction						1.45		.07																					.50	2.34	T	4.36
Butlsr				T		.61	.15								T	.80													T	.50		2.06
Camdenton						*	1.24				.16		.06			.48					.42									.38	.84	3.58
Campbell							.18									.05	.40				T									.13	.60	1.36
Caoton Lock Dam 20						T	1.59	.02			.02					.01	T				T									.05	.14	1.83
Cap Au Grie L&D 25 r						.80	.10			.95						.73					.04									.41	.38	3.41
Caps Girardsau Mo.State	T							.21			.05					1.04	.92				.01	T								T	.45	2.68
Cape Girardeau							.22				.05						1.98					T									.42	2.67
Capliogsr Mills						.66	.16				T					.70				T	.02									.64	1.81	3.99
Carrolltoo					.02	.75	.42	.02							T	.27					.03									.51		2.02
Carthage						.59										.21					.20									.28	1.06	2.34
Caruthersvills							.22				T						1.14	.15				.10									2.25	3.86
Cassville z					.02		.55							.02		.07	.55				.15	.05									.18	1.59
Csoterville							.71	T									.93				T	.10									.95	2.69
Centervills Ranger 8ta							.69										.93					.12									.80	2.54
Ceotralia							1.26	.07								.48	.11				.07										.18	2.17
Chadwick							.98										.95				.17									.41		2.51
Chillicoths 2 S						T	.65	.02								.06	T				T									.13	T	.86
Chillicothe AP CAA					T	.82	.01								.10	.02				T	.02								T	.15	T	.92
Clarksville L&D 24 r //						.67	.12			.35						.47					.02									.32	.76	2.71
Clearwater Dameite z							.45									T	.66				T	.08									.85	2.04
Clifton City						1.02	T		T	.12						1.06	.24				.03									T	.17	2.64
Clinton z					.03	.99				.02					T	.79					T									.46		2.29
Columbia WB Airport					T	.87	.07			.30			T			.94					.01									.57	.02	2.78
Columbia WB City z					T	1.19	.07			.21			T			.94					T									.77	.05	3.23
Columbia Uoiv z					.02	.92	.27	.03		.03	.17					.78					.02									.52	.16	2.92
Cooception			T			1.00	.05																						.08	.74		1.87
Concordia						.60	.04						.02			1.22					.06									.15		2.09
Cook Statioo							1.30				.12						1.04														1.40	3.86
Craoe Mountaio							.53									.03	.72					.07									.58	1.93
Crocker					.02	.55	.44		T	.50				.19		.50	T			T	.09									.44	.84	3.57
Crystal City							.82	.06			.18					.62	.47				T	.05								.17	.60	2.97
Deering							.32										1.33	.07				T									.82	2.54
Ds Soto						.05	.83	.05			.12					.47	.38				T	.04								.31	.97	3.22
Dsxter							.31				.03						.48														.93	1.75
Doniphan							.55									.41	.40													.15	.62	2.13
Doniphao 2 W							.45										.80														.84	2.09
Dora r						.81	.02									.30					.16									.27	.35	1.71
Downiog r						.93	.06																							.05		1.04
East Eod							.96									.35	1.25														1.13	3.69
Edgertoo					T	T	.45									T					.05									.54		1.04
Edina							1.64	T			T																			T	.10	1.74
Eldoo						.64	.24				.17					.75	T				.03									.30	.28	2.41
Eldorado Springe						.86	.21				.05					.78					T									.48	1.75	4.13
Elijah						.60											.80				1.22									.40	.58	3.60
Ellingtoo z							.66										.55					.10									.60	1.91
Ellsinore							.35									T	.48				T									T	.65	1.48
Elsherry							.79	.03		T	.59					.35	.62				T	.13									1.09	3.60
Emioencs r						.43	.02									.61	.01				.15									.35	.31	1.88
Fairfax						T	1.40																							1.75		3.15
Farmiogton z							.55	.01			.02						1.30				T	.21									.66	2.75
Fayetts					.04	1.04	.07			.07						.93					T									.10		2.25
Fisk							.42									T	.98					T									.48	1.88
Forsyth z							1.00										.85				.03	.17									.50	2.55
Fredericktown							.42									.19	1.08					T									.39	2.08
Fultoo z						T	1.20	.05			.41					.60	.46				T									.27	.09	3.08
Galena						.02	.95										.68				.15	.07										1.87
Gallatio						T	1.11	.05								T														.40		1.56
Gerald						.03	.99		.07	.03		.56	.02			.93					.15									.74	.21	3.73
Granby							.57										.23				.07	.10									.58	1.55
Grant City z						1.08	.05								T														.11	.65		1.87
Greeovills 1 SW	.02						.45									.16	.57					.08									.63	1.91
Hailey				.03		.60							.06			.57					.22											1.48
Bamdeo r						.99	.08	.01							.05	.21					.05									.35†		1.74
Hannibal						T	1.30	1.00			T					.32																2.62
Bannibal Watsrworks						1.09	.43			.08						.56					.07									.33		2.56
Barrie r						.70	.10																							.30		1.10
Barrisoovills						.15	.37	.51								1.13					.06									.74	T	2.96
Bermano							1.10	.10			.50					.30	.50					.12									.43	3.05
Bigh Lookout							.66							.04		T	.75				.13									.22	.30	2.10
Hornersville r						.19	.19									.25	.80													.69	.98	3.10
Bouston r						.80										1.00	.04				.21									.25	.74	3.04
Jackson							.29				.03					1.09	.64				T	T								.01	.58	2.64
Jeff City Radio KWOSr		.13				.03	.95	.01		T	.17					.45	.39				.01	.06								.36	.27	2.83
Jeffereon City z	T	.07				.04	1.00	T			.17	T				.31	.36				.01	.07								.07	.53	2.63
Jsroms						T	1.02				.14					.10	T				T									.16	.94	2.36
Jewett r						.42	.06									.81	.12				.10									.25	.25	2.01
Joplin AP CAA				T		.62										.30				T	.14									T	.11	1.17
Kahoka							2.10	.03			.03																			.15		2.31
Kaneas City WB Apt z					T	.72	.03								.07	.13					T								T	.94		1.89
K.C. St.Joho Elmwd r						.62	.05								.08	.30														.40		1.45
K.C. 75th & Holmee r						.70									.28	.32														*	*	*
K.C. 37th Raytn Rd r						.73	.02								.25	.15														.58		1.73
K.C. Uoiv of z					T	.66	.11	T							.04	.45													T	.47		1.73
Kidder					T	.03	.99	.03																						.37	.01	1.43
King City						1.30	.09			.06																			.13	1.51		3.09

See reference notes following Station Index.

DAILY PRECIPITATION

Table 3—Continued

Station	Day of Month																														Total
	1[9]	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Kirksville						.90	.22	.05			T																			.09		1.26
Kirksville AP CAA z						1.14	.07	T		.02					T	T						T								.23		1.46
Koshkonong							.52										.36														.52	1.40
Lakeside z							1.07	T			.17			.02		.43	.34					.10								.23	.90	3.26
Lamar						.20	.58									.17	.11													.29	.73	2.08
Lampe Forest Service							.66										.89					.16									.42	2.13
Lampo 4 NNE r						.82										1.24					.20									.10	.10	2.46
Lathrop 3 SW						.82	.03									.03														.75	.01	1.64
Lebanon z						.40	.61									.17	1.00				.13									.44	.67	3.42
Lecoma 3 N r						1.68	.01			.13						.80														1.10	.50	4.22
Leeper	T						.50									T	.72				T	T									.55	1.77
Lexington					T	.15	.88	.05						T		.09	.17													.18		1.52
Licking 4 N							.45										1.53														1.60	3.58
Linneus z					T	.81	.04	.04							.12								.02							.24	.01	1.28
Livonia r						.80	.06																							.05		.91
Lockwood z					T	T	.68										.20				T									.01	.30	1.19
Louisiana Starks Nur.						.12	1.07	.03		.01	.25					.50					.07									.27	.15	2.47
Louisiana							1.26	.02			.24					.21	.23				T	.06									.50	2.52
Macedonia Lookout							.48										.53					T									1.52	2.53
Macon z						.03	1.80	.13								.12	.03				.14									.08	.01	2.14
Madison						1.70										.40														.85		2.95
Malden r						.10	.05									.24	.31													.94	.26	1.90
Mansfield		.03					.85										.75				.21	.12								T	.82	2.78
Marble Hill							.37									.83	.55				.08									.19	.62	2.64
Marshall AP CAA z					T	1.15	.03			T					.05	.31					T									.29	T	1.83
Marshfield						.50	.71	T								.15	.19	T			.18			T						.44	1.01	3.18
Martinsburg		T				.02	1.16	.10			.38					.50	.50				.13	.04								.03	.33	3.13
Maryville						1.50	.10																						.13	1.83		3.56
Maryville 6 NNW r						1.25	.07																						1.90	.18		3.40
McCredie r						1.33	.20			.38						1.02														*	1.14	4.07
McCredie Exp. Sta. r						1.16	.11			.35						1.15														.88		3.65
Memphis							1.21	T														T								.02		1.23
Mercer 6 NW							.66	.08																							.37	1.11
Mexico						.03	1.32	.07			.34					.54	.35				.07									.12	.24	3.08
Middletown r						.89	.16			.46						.94					.17									.26	.08	2.96
Milan							.84																							.26		1.10
Monett						.72	.40											.29			.22	.08									.70	2.41
Monroe City						.42	.99				.07					.38	.12				.08									.07		2.13
Mora r						.87				.03						1.10														.34		2.34
Morehouse							.16										.38													.03	.90	1.47
Moselle							1.04				.46					.46	.48				.01	T									.69	3.14
Mountain Grove z							.90										.83				.21	.05								.18	.51	2.68
Neosho				.02		.29										.12					.21										.12	.76
Nevada z				T		.81	.04								T	.55				T	T									.76	1.72	3.88
New Florence AP z					T	1.02	.13	T		.90						1.01					.07									.29	.05	3.47
New Madrid							.26										1.03	T				T										1.29
Ontes Tower							.74									T	.51				T	.16									.84	2.25
Odessa					.02	1.00	.08									.45														.25		1.78
Oregon					.46		.68	.05						T																1.05		2.24
Osceola z					T	.03	1.07				.18					.27	.41				T	.01								.12	1.25	3.34
Owensville z							1.00				.43				.45		.80					.05								T	.72	3.45
Ozark							1.25							-	-	-	-	-	-	-	.40	.06									1.63	-
Ozark Beach							1.03														.10	.10								.06	.43	1.72
Pacific							1.05	T			.57					.72	.60					.01									1.10	4.05
Palmyra							1.75									.45					.13									.25		2.58
Paris							1.11				.09					.31	.18				T									.40	.01	2.10
Parma							.18										.49					.08									1.15	1.88
Pattonsburg r						1.06	.03																						.05	1.45		2.59
Perry z						.20	.85									.30														.45		1.80
Perryville							.38				.04					.25	.62				.10									.18	.28	1.85
Philadelphia						.22	1.14	T			.02					.17						.12								.54		2.21
Pierce City						.25	.23									.09				T	.35										.40	1.32
Pleasant Hill					T	.22	.52	.03		.02						.45	.01				.02									.75		2.02
Polo z						.14	.98									.13														.59		1.84
Poplar Bluff							.44									.05	.49					T									.80	1.78
Potosi r						.96				.07	.01					1.91	.04													.82	.15	3.96
Puxico							.25										1.20														.85	2.30
Qulin							.25										.82					T									1.11	2.18
Reynolds							.68										.61					.12									.72	2.13
Richwoods z							1.09	.06			.15					.17	1.02														.89	3.38
Ridgeway r						.88																							.03	1.04		1.95
Roby						.63	.57				.03					.69	1.11				.19									.39	.33	3.94
Rogersville r						1.21							.15			.64	.02				.28									.35	.59	3.24
Rolla School-Mines z							1.19				.14					.15		.40												.27	.79	2.94
Rolla 5 SE r						1.06				.05						.63														.53	.73	3.00
Rolla 3 W r						.89				.11						.42														.78	.89	3.09
Rolla 4 SE r						1.04	.02			.08						.81														.62	.73	3.30
Rolla 7 S r						1.17				.05						.56														.76	.71	3.25
Round Spring							.67										.59														.92	2.18
St. Charles						T	1.18	.10	T		.95					.28	.74					.02									.82	4.09
St. James 3 NW r						.93	.02			.10						.40														.40	.47	2.32
St. Joseph WB Apt. z					T	.96	.02								.01					T									.23	.84		2.06
St. Louis WB Apt. z						.76	.14	.03		.82	.69				T	1.51					.04									.25	.29	4.53
St. Louis WB City z						.61	.06	T		.57	.02					.58	.01				.01									.30	.09	2.25
St. Louis Univ.						.54	.09	T		.49	.02				T	.65	.01				.01									.31	.08	2.20
St. Louis Wash. U. z							.69	.10			.60					.07	.82					.01									.31	2.60
St. Thomas							1.03				.36					.61	.30				.14										.52	2.96
Salem z							.93				T						1.45					.14									1.34	3.86
Salisbury					T	.86	.11	.04								.29					T									.14		1.44
Saverton Lock & Dam 22						T	1.31	.01			.14					.38	.08				.06	.06								.01	.23	2.28
Sedalia						.80	.25				.10					*	1.74				.04									.12	.24	3.29
Seligman							.40							.13			.29					.20									.33	1.35
Seneca r						.34										.05					.13									.02	.15	.69
Seymour 4 NE							.92										1.24				.31										.77	3.24
Shelbina						.85	.80	.04		T						.43					.04									.29		2.45
Shelbyville						.60	1.04									.22					.09									.12		2.07
Shell Knob		.02					.50							.05			.54				.02	.17								.02	.05	1.37
Sikeston							.17				.01						.12				.01	T									.95	1.26
Siloam Springs							.75										.44					.13									.49	1.81
Skidmore r						1.04	.05																						2.62	.08		3.79
Spring City r				.10		.44										.27				.09	.17											1.07
Springfield WB Apt. z	T				T	.64							T			.23				T	.19									.31	1.15	2.52
Stanberry r						.99																							.30	.53		1.82
Steelville z						1.33					.13					.74	.78														.88	3.86
Steffenville z						.53	1.05	.01			.01					.03					.07	.02								.21		1.93
Stover							1.04	T			.03					.62	.25				.02									.02	.29	2.27
Sullivan 3 NE z			T			T	1.15	.03			.20			T		.82	.83					.03									.63	3.69
Summersville						T	.98										.51				T	.19									.81	2.49
Sweet Springs					T	.58	.46	T		.02			T			.80					.05									.28		2.19
Tarkio AP CAA z			T			1.38	.02																						1.52	T		2.92
Tecumseh							.48										.80				.08	.04									1.08	2.48
Topaz							.75										1.00				.06									.35	.55	2.71
Trenton z							.81	.04								.01														.45		1.31
Troy							.85	.07			.85					.32	.49					.20									1.10	3.88
Union 2 SE							1.46	.05			.50					.25	.65					.02									.69	3.82

See reference notes following Station Index.

DAILY PRECIPITATION

Table 3—Continued

Station	Day of Month																															Total
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Unionville							.94	.08			.02																			.20		1.24
Valley Park							.81	T			.55					.02	.43					.10									.68	2.59
Van Buren								.70									.90					.07									.54	2.21
Vandalia						.10	1.32			.05	.28					.45					.06									.66	.08	3.00
Vanzant							.83										.96					.13									.33	2.25
Vichy 2 SE r						1.07	.01			.20						.82					.03									.90	.50	3.53
Vichy AP CAA 2 NW						1.14	T	T		.15						.93					.09									.56	.57	3.44
Villa Ridge r						1.51	.10	.02		.58	.01					.18					.08									.86	.06	3.40
Waco	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	T	.99	-
Wappapello Dam z	T						.37									.02	1.48					T									.80	2.67
Warrensburg Central T. C.					T	.18	.48				T					.90	.03													.23		1.82
Warrensburg 5 E r						.66										.86														.16		1.68
Warrenton						.07	1.02	.10		.14	.54					.65	.15				.07									.25	.14	3.13
Warsaw No. 1					.02		.95	T		.10				T		.65	.34				T									.25	.75	3.06
Warsaw No. 2					T	T	.89									.64	.32												T	.36	.58	2.79
Washington r						1.16	.07	.01		.59	.01					1.02	.02				.08									.60	.10	3.66
Wasola z							.74									T	.78				.04	.09									.66	2.31
Waverly	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-									.30		-
Webster Groves						.08	.79	.02		.16	.46					.62	.02				T	T								.30	.22	2.67
Weingarten							.46				.04					.23	1.02					.10								.10	.82	2.77
West Plains z		T				.52										.74	T				.05									.47	.27	2.05
Williamsville					.42											.13	.85					.47									.83	2.70
Willow Springs							.94										.51					.23									.49	2.17
Willow Springs For. r						.92										.46	.01				.16									.24	.19	1.98
Windsor 3 NW							1.00	.01			T					.91	.21				.04									.30	.20	2.67
Zalma							.35										2.25					.05									.71	3.36

See reference notes following Station Index.

TABLE 4

HOURLY PRECIPITATION

MISSOURI
OCTOBER 1948

STATION	A. M. HOUR ENDING												P. M. HOUR ENDING												TOTAL
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	
—1st—																									
Jefferson City																			.12						.12
—4th—																									
Cassville Ranger Sta.															.02										.02
Spring City										.03	.03	.03		.01											.10
—5th—																									
Clinton					.02	.01																			.03
—6th—																									
Advance AP																					.01	.01	.05	.10	.17
Alton 6 ENE																			.01	.03	.33	.04	.02		.43
Amsterdam					.04	.01	.19	.03					.20	.01				.02	.01	.04					.55
Appleton City						.04	.06	.14					.14	.18				.10	.04						.70
Ashton										.01	.01	.01	.05	.05	.10	.20	.21	.06	.05	.07	.31	.27	.19	.06	1.65
Bedford								.03	.30	.07	.05	.04	.01	.15	.10						.05				.80
Belleview																		.04		.02	.07	.45	.14	.03	.75
Bolivar							.01	.01	.01	.02	.05		.01			.44	.06	.02	.17	.02	.01				.83
Cap Au Gris Lock & Dam 25																	.04	.01		.08	.05	.31	.23	.08	.80
Cassville Ranger Sta.									.02						.01	.22	.21	.01	.03	.01				.01	.52
Chillicothe AP CAA 6								*	*	*	*	*	.31	*	*	*	*	*	.31						
Clarksville Lock & Dam 24 //																	.10		.04	.07	.09	.14	.22	.01	.67
Clearwater Dam Site																			.03	.02	.01	.31	.07	.01	.45
Clinton						.01	.03	.16	.15				.02	.26	.04			.07	.09	.11				.01	.95
Columbia WB Airport 6								*	*	*	*	*	.14	*	*	*	*	*	.45	*	*	*	*	*	
Columbia WB City										.02	.06	.05	.03	.05	.04	.14	.25	.25	.02	.05	.08	.03	.08	.04	1.19
Columbia Univ. of Mo.										.03	.07	.07	.03	.03	.03	.14	.43	.12	.10	.02	.03	.02	.03	.02	1.17
Dora																.04		.05	.33	.13	.05	.02		.01	.61
Downing									.03	.01	.05	.08	.10	.12	.09	.21	.10	.01	.01	.01		.02	.04	.05	.93
Ellington																			.05	.03	.32	.18	.07		.65
Eminence																.01	.04		.01	.03	.28	.03	.03		.43
Farmington																		.02	.01	.02	.01	.33	.12	.04	.55
Forsyth																	.34	.43	.12	.12					1.01
Fulton														.18	.02		.09	.31	.19	.08	.08	.11	.04	.09	1.19
Grant City							.07	.20	.13	.01	.07	.11	.10	.31											1.00
Hamden									.04	.14	.15	.07	.07	.08	.11	.20	.01	.08						.04	.99
Harris									.08	.12	.10	.05	.05	.11	.19										.70
Hornersville																							.13	.06	.19
Houston															.03	.02		.05	.42	.13	.10	.03	.02		.80
Jefferson City												.04	.05	.05	.06		.10	.30	.11	.09	.10	.01		.01	.92
Jewett																				.07	.02	.20	.10	.03	.42
Joplin AP CAA 6		*	*	*	*	*	.02							*	*	*	*	*	.58	*	*	*	*	*	
Kansas City WB Airport						.13	.28	.05		.01		.03	.16			.01		.05							.72
Kansas City St. John & Elmwood						.08	.20	.02	.01		.02	.08	.18					.03							.62
Kansas City 75th & Holmes				*	*	.60				.10															.70
Kansas City 37th & Raytown Rd.						.03	.25	.08	.03	.02	.09		.20					.01	.01					.01	.73
Kansas City Univ. of K.C.				.01		.09	.25	.03		.02	.01	.14	.13					.10	.03						.81
Kirksville AP CAA							.01	.01	.01	.04	.13	.09	.15	.06	.14	.20	.01	.03	.15				.04	.05	1.12
Lakeside									.02			.01	.05	.07		.05	.30	.35	.17	.03		.02	.01		1.08
Lampe 4 NNE									.02								.33	.16	.12	.19					.82
Lebanon													.04	.06			.25	.23	.22	.16	.05		.01	.01	1.03
Lecoma 3 N																.11		.07	.87	.45	.13	.03	.01	.01	1.68
Linneus									.20	.20	.02	.03	.05	.11	.18							.02	.01	.01	.83
Livonia										.03	.12	.10	.08	.03	.17	.16	.01	.06	.01					.03	.80
Lockwood							.01	.01							.48	.06		.01	.07	.03					.67
Lucerne									.03	.11	.09	.10	.05	.15	.19	.02									.74
Macon			.04							.03	.14	.23	.24	.10	.09	.15	.18	.01	.02	.08	.01		.05	.11	1.48
Malden																							.04	.06	.10
Marshall AP CAA								.06	.07	.06	.02	.08	.02	.09	.26				.04	.03	.18	.15			1.06
Maryville 6 NNW						.08	.09	.12	.21	.05	.03	.07	.45	.15											1.25
McCredie				.01	.01	.01						.01	.01	.08	.06	.01	.11	.38	.24	.14	.04	.14		.08	1.33
McCredie Exp. Sta.					.02									.09	.05		.07	.25	.28	.12	.05	.14		.09	1.16
Middletown															.08	.05	.01	.02	.08	.18	.21	.19	.05	.02	.89
Mora									.01	.06	.08	.03	.04	.04	.21	.23				.06	.07	.04			.87
Mountain Grove														.02		.01		.20	.40	.13	.11	.02			.89
Nevada					.04	.02	.02						.32	.16				.20	.03	.01					.80
New Florence AP 1 SE														.04	.06	.04		.05	.12	.22	.25	.10	.04	.05	.97
Osceola							.02	.07	.16					.40	.28			.01	.06	.06					1.06
Owensville														.01	.02		.01	.06	.37	.32	.16	.05			1.00
Pattonsburg								.13	.21	.05	.06	.12	.17	.26	.03	.01	.01			.01					1.06
Perry														.01	.02	.01	.11	.12	.08	.15	.07	.18	.05	.06	.86
Polo																			*	*	.14				.14
Potosi																		.01	.06	.02	.13	.57	.15	.02	.96
Richwoods																		.03	.02	.03	.32	.50	.10	.04	1.04
Ridgeway								.06	.20	.10	.09	.03	.20	.18	.01	.01									.88
Rogersville											.06	.02				.10	.50	.21	.21	.11					1.21
Rolla School of Mines																.01	.01	.03	.75	.21	.07	.04			1.12
Rolla 5 SE																.02		.06	.58	.30	.09	.01			1.06
Rolla 3 W															.02	.03		.08	.46	.19	.07	.03		.01	.89
Rolla 4 SE															.01	.01		.07	.57	.26	.08	.02	.01	.01	1.04
Rolla 7 S																.04		.06	.67	.28	.08	.02	.02		1.17
Saint James 3 NW																.02		.05	.48	.28	.07	.02	.01		.93
St. Joseph WB Airport					.05	.12	.18	.21			.12	.15	.11			.01	.01								.96
St. Louis WB Airport																		.03		.02	.03	.14	.36	.15	.73
St. Louis WB City																			.02	.03	.02	.12	.29	.13	.61
St. Louis Washington Univ.																		.04	.05		.03	.17	.25	.10	.64
Salem																.01	.01		.08	.57	.19	.04	.03		.93
Seneca															.29	.01		.03	.01						.34
Skidmore					.02	.10	.13	.25	.10		.02	.13	.25	.04											1.04
Spring City				.03	.01								.01	.09	.25			.04	.01						.44
Springfield WB Airport 4 NW											.02				.03	.15	.20	.08	.08	.07	.01				.64
Stanberry						.02	.19	.23	.11	.01	.10	.07	.16	.10											.99
Steelville																.03	.04	.03	.12	.82	.17	.09			1.30
Steffenville											.03		.05	.05	.10	.13	.12	.14	.07	.21	.24	.09	.11	.01	1.35
Sullivan 3 NE																.01		.01	.06	.07	.64	.21	.09	.01	1.10
Tarkio AP CAA				.02	.03	.10	.15	.15	.12	.03	.42	.18	.09	.05											1.34
Vichy 2 SE																.03		.07	.55	.25	.12	.03	.02		1.07
Vichy AP CAA 2 NW 6														*	*	*	*	*	.16	*	*	*	*	*	

See reference notes following Station Index.

TABLE 4 — Continued
HOURLY PRECIPITATION

STATION	A. M. HOUR ENDING												P. M. HOUR ENDING												TOTAL
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	
Villa Ridge																		.02	.08	.06	.99	.26	.10		1.51
Wappapello Dam																					.06		.15	.13	.34
Warrensburg 5 E							.05	.06	.07	.06	.01			.13	.02			.01	.05	.15	.05				.66
Washington																	.01	.01	.05	.07	.70	.24	.08		1.16
Wasola																		.15	.37	.10	.10				.72
West Plains																			.06	.35	.06	.04			.51
Willow Springs Forest Service															.03	.16		.01	.47	.13	.06	.06			.92
—7th—																									
Advance AP	.04																								.04
Ashton	.09	.06																							.15
Bedford											.01	.02	.02					.02	.02						.09
Cap Au Gris Lock & Dam 25		.01	.04																			.03	.01	.01	.10
Cassville Ranger Station	.01	.01																							.02
Chillicothe AP CAA 6																				*	*	*	*	*	
Clarksville Lock & Dam 24 //		.01	.02	.07													.01		.01						.12
Columbia WB Airport 6	.28	*	*	*	*	*	.01													*	*	*	*	*	
Columbia WB City	.01																			.01	.02	.01	.02		.07
Columbia Univ. of Mo.	.01	.01	.01																						.03
Dora	.02																								.02
Downing	.04	.02																							.06
Ellington		.01	.01																						.02
Eminence		.01	.01																						.02
Forsyth		.01		.01		.01																			.03
Fulton	.01																				.01	.01	.01	.02	.06
Grant City																	.04								.04
Hamden	.01											.01	.01					.01	.01	.02				.01	.08
Harris																	.01	.07		.01				.01	.10
Hornersville	.17		.01		.01																				.19
Jewett	.01	.01						.02	.01	.01															.06
Joplin AP CAA 6	.02																								
Kansas City WB Airport													.02	.01											.03
Kansas City St. John & Elmwood	.02	.02						.01																	.05
Kansas City 37th & Raytown Rd.	.01	.01																							.02
Kirksville AP CAA	.01	.01																	.03	.01					.06
Lebanon	.01	.01																							.02
Lecoma 3 N			.01																						.01
Linneus																			.01	.01	.01				.03
Livonia																			.04		.01	.01			.06
Lucerne																	.03	.04						.01	.08
Macon	.07	.04	.01													.08				.02					.22
Malden	.04	.01																							.05
Marshall AP CAA	.01	.02	.01	.01																					.05
Maryville 6 NNW																.01	.04	.01	.01						.07
McCredie	.03	.01				.06										.02	.01			.01	.04		.01	.01	.20
McCredie Exp. Sta.	.04															.01		.01		.01	.02		.02		.11
Middletown	.05	.03	.03		.01																.01	.02	.01		.16
Nevada																							.20	.01	.21
New Florence AP 1 SE	.01	.05																			.03		.02		.11
Pattonsburg																.01	.01	.01							.03
Perry	.10	.01	.03																						.14
Polo			*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.98						.98
Richwoods	.01	.02																							.03
Rolla 4 SE		.02																							.02
St. James 3 NW	.01	.01																							.02
St. Joseph WB Airport																	.01	.01							.02
St. Louis WB Airport																						.03	.04	.02	.09
St. Louis WB City		.01																					.04	.01	.06
St. Louis Washington Univ.		.01	.01	.02	.01																	.01	.04	.02	.12
Skidmore																	.01	.01	.02	.01					.05
Steffenville	.13	.04	.01														.02								.20
Sullivan 3 NE																							.01	.01	.02
Tarkio AP CAA																		.01			.05				.06
Trenton								.05	.15	.11	.04	.05	.10	.10	.20										.80
Vichy 2 SE		.01																							.01
Vichy AP CAA 2 NW 6	.98																								
Villa Ridge	.05																					.03	.01	.01	.10
Wappapello Dam	.02																								.02
Washington	.01	.02	.01																					.03	.07
—8th—																									
Chillicothe AP CAA 6	.01																								
Columbia WB Airport 6	.06																								
Columbia Univ. of Mo.		.01	.01		.01																				.03
Hamden	.01																								.01
Linneus	.01																								.01
Lucerne	.01	.01																							.02
Nevada			.09	.05	.06																				.20
Richwoods	.02	.02																							.04
St. Louis Washington Univ.	.01	.01	.01																						.03
Sullivan 3 NE	.01																								.01
Trenton																			.01		.02				.03
Villa Ridge	.02																								.02
Washington	.01																								.01
—10th—																									
Bolivar																				.02					.02
Cap Au Gris Lock & Dam 25													.01	.03	.05	.07	.19	.12	.08	.06	.05	.10	.10	.09	.95
Clarksville Lock & Dam 24 //																	.02	.03	.05	.03	.04	.07	.11		.35
Clinton						*	*	*	*	*	*	*	*	*	*	*	*	.02							.02
Columbia WB Airport 6								*	*	*	*	*	.01	*	*	*	*	*	.20	*	*	*	*	*	
Columbia WB City																	.06	.08	.06	.01					.21
Columbia Univ. of Mo.																	.02	.09	.06	.01					.18
Fulton															.01			.01	.18	.08	.12				.40
Jefferson City																				.08	.05	.01		.02	.16
Kirksville AP CAA																			.01						.01
Lakeside																			.10	.04	.04				.18
Lecoma 3 N																					.10	.01	.02		.13
McCredie										.01	.01		.01				.02	.10	.14	.05	.04				.38

See reference notes following Station Index.

TABLE 4 — Continued
HOURLY PRECIPITATION

MISSOURI
OCTOBER 1948

STATION		A. M. HOUR ENDING												P. M. HOUR ENDING												TOTAL
		1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	
McCredie Exp. Sta.																			.02	.14	.08	.06	.05			.35
Middletown												.01				.02			.02	.21	.05	.05	.09	.01		.46
Mora																			.03							.03
New Florence AP 1 SE															.01	.15	.20	.06	.01	.10	.13	.10	.08	.04	.01	.89
Osceola																				.17						.17
Owensville																		.05	.02	.01	.06	.07	.12	.06		.39
Perry																							.01			.01
Potosi																							.02	.03	.02	.07
Richwoods																							.05	.04	.04	.13
Rolla School of Mines																						.04	.04	.02		.10
Rolla 5 SE																						.03		.02		.05
Rolla 3 W																						.06	.04	.01		.11
Rolla 4 SE																						.04	.03	.01		.08
Rolla 7 S																						.03	.01	.01		.05
St. James 3 NW																						.05	.04	.01		.10
St. Louis WB Airport																		.05	.08	.15	.07	.16	.08	.08	.11	.78
St. Louis WB City																			.01	.03	.19	.05	.14	.10	.05	.57
St. Louis Washington Univ.																				.07	.08	.10	.13	.10	.07	.55
Steelville																						.06	.03	.05		.14
Sullivan 3 NE																			.01	.01	.01	.03	.02	.04	.05	.17
Vichy 2 SE																					.08	.04	.03	.05		.20
Vichy AP CAA 2 NW	6														*	*	*	*	*	.02	*	*	*	*	*	
Villa Ridge																		.04	.02	.05	.01	.15	.12	.12	.07	.58
Washington																		.03	.05	.06		.18	.14	.08	.05	.59
—11th—																										
Columbia WB Airport	6	.09																								
Columbia Univ. of Mo.		.01	.01																							.02
Farmington		.02																								.02
Jefferson City		.02																								.02
Perry				.01																						.01
Potosi		.01																								.01
St. Louis WB Airport		.01		.01																						.02
St. Louis WB City		.02																								.02
St. Louis Washington Univ.		.01																								.01
Steffenville			.01																							.01
Vichy AP CAA 2 NW	6	.13																								
Villa Ridge		.01																								.01
Washington			.01																							.01
—12th—																										
Advance AP		.03	.01																							.04
—13th—																										
Cassville Ranger Sta.												.02														.02
Rogersville															.14	.01										.15
—14th—																										
Lakeside																		.01	.01							.02
—15th—																										
Amsterdam																									.13	.13
Bedford																									.25	.25
Chillicothe AP CAA	6																				*	*	*	*	*	
Hamden																									.05	.05
Kansas City WB Airport																						.01		.01	.05	.07
Kansas City St. John & Elmwood																									.08	.08
Kansas City 75th & Holmes																								.01	.27	.28
Kansas City 37th & Raytown Rd.																								.08	.17	.25
Kansas City Univ. of K. C.																								.10	.18	.28
Linneus																								.05	.06	.11
Macon																								.02		.02
Polo									*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
St. Joseph WB Airport																						.01				.01
—16th—																										
Advance AP										.02	.31	.23	.13	.09	.01				.01	.14	.09	.36		.06	.08	1.53
Alton 6 ENE														.03	.01				.01		.06	.02	.08	.02	.02	.25
Amsterdam		.31	.57	.03																						.91
Appleton City		.04	.49	.14		.05				.02			.02	.02												.78
Belleview								.14	.01	.02	.01				.02	.07					.10	.45	.24	.06	.04	1.16
Bolivar							.01	.01		.01	.01		.01			.06			.01							.12
Cap Au Gris Lock & Dam 25						.07	.12	.01						.12	.04	.04	.20	.12	.01							.73
Cassville Ranger Sta.									.06					.02	.06	.07	.03	.26	.02	.02	.02				.01	.57
Chillicothe AP CAA	6	.10													*	*	*	*	*	.02						
Clarksville Lock & Dam 24	//					.08	.07	.01		.05			.01	.07	.06	.06	.04		.02							.47
Clearwater Dam Site														.01	.06			.01			.02	.25	.08	.11	.04	.58
Clinton			.08	.42		.03	.01		.01					.18												.73
Columbia WB Airport	6		*	*	*	*	*	.54	*	*	*	*	*	.20	*	*	*	*	*	.20						
Columbia WB City			.01	.17	.10	.20	.07	.04	.01				.14	.16	.04											.94
Columbia Univ. of Mo.			.01	.14	.15	.15	.05						.08	.07	.10											.75
Dora																				.05	.05	.15	.02	.02	.01	.30
Ellington															.02						.14	.11	.09	.04	.07	.47
Eminence														.01							.16	.15	.12	.12	.05	.61
Farmington								.05	.01	.01				.01	.04	.23	.02				.04	.41	.27	.14	.02	1.25
Forsyth										.01	.02	.01	.19		.09	.01			.03	.08	.22	.08	.10	.01		.85
Fulton				.15	.06	.19	.05	.12	.03			.08	.10	.04	.13	.10										1.05
Hamden		.06		.01							.10	.01		.01		.02										.21
Hornersville																								.19	.06	.25
Houston													.15	.35			.05			.05	.14	.16	.01	.04	.05	1.00
Jefferson City				.15	.10	.06	.10	.08	.01			.08	.18		.02	.05	.02									.85
Jewett								.07	.01			.01	.01		.06	.02		.02			.06	.37	.04	.06	.08	.81
Joplin AP CAA	6		*	*	*	*	*	.16	*	*	*	*	*	.05	*	*	*	*	*	.09						
Kansas City WB Airport									.05	.04	.03	.01														.13
Kansas City St. John & Elmwood		.01	.01							.19	.09															.30
Kansas City 75th & Holmes											.02	.28	.02													.32

See reference notes following Station Index.

TABLE 4 — Continued
HOURLY PRECIPITATION

MISSOURI
OCTOBER 1948

STATION	A. M. HOUR ENDING												P. M. HOUR ENDING												TOTAL
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	
Kansas City 37th & Raytown Rd.										.06	.06	.03													.15
Kansas City Univ. of K. C.	.02									.01	.09														.12
Lakeside				.39	.01	.01	.02	.02	.04	.01	.12	.01	.02	.05		.03	.01	.05	.01						.80
Lampe 4 NNE											.02		.01	.45				.04	.16	.37	.16	.01	.02		1.24
Lebanon												*	*	*	*	*	.17	*	*	1.00					1.17
Lecoma 3 N				.01	.03						.10			.05	.03		.14	.04	.01	.05	.33			.01	.80
Lockwood						.02		.01		.01				.10	.04	.01	.01								.20
Macon	.08	.01	.01							.01	.02		.01												.14
Malden																					.05		.01	.18	.24
Marshall AP CAA							.30						.04	.01											.35
McCredie			.05	.14	.16	.17	.07	.05				.11	.06	.08	.11		.02								1.02
McCredie Exp. Sta.			.04	.12	.15	.12	.08	.10				.03	.05	.19	.23		.03	.01							1.15
Middletown			.01	.04	.11	.15	.06	.09	.02			.09	.02	.09	.18		.02	.06							.94
Mora		.15	.52	.07	.01	.05			.05			.05	.18	.02											1.10
Mountain Grove									.01	.02		.13	.01						.10	.16	.09	.06	.09	.09	.76
Nevada	.08	.03	.02	.06	.07			.05	.20	.01			.01	.02											.55
New Florence AP 1 SE				.38	.04	.09	.02	.05				.13	.02	.05	.20	.02									1.00
Osceola	.02	.02	.11	.01	.06	.03				.28				.09	.01										.63
Owensville				.05	.28	.09		.03	.01	.04		.06	.29	.05	.05	.05	.11	.10	.04						1.25
Perry				.05	.12	.01							.04	.01	.01		.01	.02	.01						.28
Polo	*	*	*	*	*	*	*	.13																	.13
Potosi						.51	.05	.03				.09	.28	.25	.14		.01	.02	.03	.07	.13	.21	.05	.04	1.91
Richwoods						.21	.04					.05		.10	.05	.02			.23	.20	.07	.11	.14	.01	1.23
Rogersville								*	*	*	*	*	*	.28	.01	.01		.08	.13	.11	.01			.01	.64
Rolla School of Mines					.05	.08	.01	.01					.02	.03	.09		.06	.14	.01	.05					.55
Rolla 5 SE					.02	.05	.01		.01		.04		.17	.03	.11		.04	.14	.01						.63
Rolla 3 W					.10	.02								.02	.08		.10	.09		.01					.42
Rolla 4 SE					.15	.01	.01				.03		.32	.05	.05		.06	.09	.02	.01				.01	.81
Rolla 7 S					.04					.01	.01		.10	.02	.07		.16	.06	.04		.05				.56
St. James 3 NW					.13	.02								.01	.04	.05	.03	.04	.07		.01				.40
St. Louis WB Airport					.47	.05	.08						.06	.35	.13	.05	.16	.08	.05	.02	.04				1.54
St. Louis WB City				.01	.01	.06	.01					.02	.02	.12	.10	.03	.01	.02	.12	.04		.01			.58
St. Louis Washington Univ.					.01	.04	.01		.01	.01		.03		.10	.24	.01	.15	.05	.08	.07	.01			.01	.83
Salem											.01		.14	.50				.05	.09	.21	.23	.10	.02	.05	1.40
Seneca														.04	.01										.05
Spring City			.01		.03	.01					.04	.01	.07	.09	.01										.27
Springfield WB Airport 4 NW												.02	.02	.03	.02	.04	.03	.06	.01						.23
Steelville					.68	.04					.07		.02	.24	.05	.01	.02	.08	.04		.25				1.50
Steffenville															.03										.03
Sullivan 3 NE					.49	.25	.05					.02		.18	.05	.04		.21	.15	.01	.09				1.54
Vichy 2 SE					.20	.04					.01			.03	.31		.10	.11	.01	.01					.82
Vichy AP CAA 2 NW 6		*	*	*	*	*	.46	*	*	*	*	*	.13	*	*	*	*	*	.34						
Villa Ridge					.07	.04	.07																		.18
Wappapello Dam								.03	.45	.26	.07	.06	.05					.02	.11	.21	.02		.08	.01	1.37
Warrensburg 5 E	.05	.40	.14	.26	.01																				.86
Washington				.02	.04	.10		.01			.01	.04	.21	.18	.03	.06	.09	.17	.03	.03					1.02
Wasola										.04	.05	.01						.04	.16	.22	.08	.10	.09	.01	.80
West Plains												.07	.01	.01					.07	.07	.23	.16	.03	.08	.73
Willow Springs Forest Service											.02	.05							.04	.04	.15	.05	.10	.01	.46
—17th—																									
Advance AP	.01	.05	.03	.01																					.10
Alton 6 ENE	.06	.03																							.09
Belleview	.01	.03	.02																						.06
Cassville Ranger Sta.	.01	.01																							.02
Clearwater Dam Site	.04	.02	.02																						.08
Ellington	.07	.01																							.08
Eminence		.01																							.01
Farmington	.05		.02																						.07
Hornersville	.17	.36	.07	.01	.02	.07	.01	.01	.07	.01															.80
Houston	.01	.03																							.04
Jewett	.03	.03	.01						.03			.01		.01											.12
Malden	.01	.14	.01	.07	.08																				.31
Mountain Grove	.01	.01																							.02
Owensville		.02																							.02
Potosi	.02	.01	.01																						.04
Richwoods	.02																								.02
Rogersville	.01	.01																							.02
St. Louis WB City			.01																						.01
Wappapello Dam	.03	.04	.01																						.08
Washington		.01		.01																					.02
Wasola	.01																								.01
West Plains	.02																								.02
Willow Springs Forest Service		.01																							.01
—20th—																									
Chillicothe AP CAA 6																				*	*	*	*	*	
Spring City																			.08	.01					.09
—21st—																									
Bedford	.02																								.02
Belleview								.08	.10	.05															.23
Bolivar							.01		.01		.02			.01											.05
Cap Au Gris Lock & Dam 25									.01	.01		.01	.01												.04
Cassville Ranger Sta.	.01	.03		.02		.01	.05	.05	.01				.01	.01											.20
Chillicothe AP CAA 6	.02																								
Clarksville Lock & Dam 24 //								.01	.01																.02
Clearwater Dam Site									.02	.05	.01	.01													.09
Columbia WB Airport 6								*	*	*	*	*	.01												
Columbia Univ. of Mo.					.02																				.02
Dora							.02	.06	.04	.03	.01														.16
Ellington										.06	.02	.01													.09
Eminence						*	*	*	*	*	*	*	*	*	*	.15									.15
Farmington								.03	.08	.03	.01		.01		.01		.03	.03							.23
Forsyth				.01		.01	.01	.09	.06	.02					.01										.21
Hamden		.04	.01																						.05
Houston						.03	.03	.09	.03	.01		.01		.01											.21
Jefferson City								.08	.01																.09
Jewett										.04	.02	.02	.01	.01											.10

See reference notes following Station Index.

TABLE 4 — Continued
HOURLY PRECIPITATION

MISSOURI
OCTOBER 1948

STATION		A. M. HOUR ENDING												P. M. HOUR ENDING												TOTAL
		1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	
Joplin AP CAA	6		*	*	*	*	*	.11	*	*	*	*	*	.03												
Lakeside									.03	.07																.10
Lampe 4 NNE					.01	.01	.03	.01	.07	.05	.02															.20
Lebanon						*	*	*	*	*	*	*	*	.13												.13
Lockwood						.01	.02					.04			.01			.01	.01							.10
Macon		.01	.07	.06																						.14
Middletown												.02	.15													.17
Mountain Grove							.03	.03	.08	.07			.01		.03											.25
New Florence AP 1 SE												.08	.01													.09
Osceola								.02																		.02
Owensville											.01		.05	.01												.07
Rogersville						.08	.05	.06	.03					.01	.04	.01										.28
St. Louis WB Airport															.03											.03
St. Louis WB City																	.01									.01
St. Louis Washington Univ.												.01	.01													.02
Salem									.09	.01																.10
Seneca					.03	.04	.03	.01	.02																	.13
Spring City			.02	.02	.05	.03	.03	.01			.01															.17
Springfield WB Airport 4 NW						.01	.04	.06				.01	.01	.06												.19
Steffenville				.06	.01																					.07
Sullivan 3 NE															.01	.02										.03
Vichy 2 SE											.02		.01													.03
Vichy AP CAA 2 NW	6								*	*	*	*	*	.09												
Villa Ridge											.05	.02		.01												.08
Washington											.04		.01	.01		.01	.01									.08
Wasola								.01	.01	.04	.02	.01	.01	.01												.11
West Plains								.01	.01	.02	.02	.02														.08
Willow Springs Forest Service									.04	.07	.03	.01						.01								.16
-29th-																										
Grant City																	.02	.02						.08	.30	.42
Linneus																		*	*	*	*	*	*	*	*	*
Maryville 6 NNW																.04	.02					.05	.83	.87	.09	1.90
Pattonsburg																			.05							.05
Ridgeway																				.03						.03
St. Joseph WB Airport																.01									.22	.23
Skidmore															.01	.09						.65	.75	1.04	.08	2.62
Stanberry																		.01	.02						.27	.30
Tarkio AP CAA															.02						.90	.55	.02	.01	.01	1.51
-30th-																										
Advance AP														.01	.02					.08	.06	.09	.01	.05	.06	.38
Alton 6 ENE											.05	.10						.05	.11	.01					.05	.37
Amsterdam					.20	.30	.25																			.75
Appleton City							.14	.18	.12	.10													.03	.01		.58
Ashton								.01	.07	.02																.10
Bedford					.05	.09	.11	.05	.02		.01	.01		.01												.35
Belleview												.06	.08	.05	.01		.03	.02	.10	.06						.41
Bolivar								.01	.02	.01	.04	.18	.02	.01		.01									.31	.61
Cap Au Gris Lock & Dam 25									.01		.15	.08	.03	.01	.11	.02										.41
Chillicothe AP CAA	6		*	*	*	*	*	.12	*	*	*	*	*	.03												
Clarksville Lock & Dam 24	//									.06	.13										.01		.04	.05	.03	.32
Clearwater Dam Site													.02	.03					.24	.21	.01				.02	.53
Clinton						.02	.05	.19	.10	.07	.01															.44
Columbia WB Airport	6		*	*	*	*	*	.11	*	*	*	*	*	.21							*	*	*	*	*	
Columbia WB City							.16	.13	.07											.02	.36	.02			.01	.77
Columbia Univ. of Mo.								.35	.14	.01	.01									.01	.08	.01				.61
Dora									.02	.16	.05	.01				.02		.01								.27
Downing								.03	.02																	.05
Ellington											.01	.21	.07	.01											.04	.34
Eminence											.19	.06	.01	.01					.07	.01						.35
Farmington													.01	.04	.02	.01	.08	.02	.06	.05						.29
Forsyth									.08	.03	.01				.04											.16
Fulton								.11	.18	.01			.01												.01	.32
Grant City		.11	.12	.08	.01																					.32
Hamden							.20	.13	.01	.01																.35
Harris			.15	.06	.08	.01																				.30
Hornersville																.01	.03	.01				.01	.02	.16	.45	.69
Houston								.01	.08	.05	.06	.03		.01		.01										.25
Jefferson City								.30	.09			.01	.10													.50
Jewett													.01	.03	.01					.02	.01		.07		.10	.25
Kansas City WB Airport				.48	.23	.10	.13																			.94
Kansas City St. John & Elmwood				.08	.10	.09	.13																			.40
Kansas City 75th & Holmes		.02		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Kansas City 37th & Raytown Rd.					.30	.10	.18																			.58
Kansas City Univ. of K. C.				.02	.16	.11	.12	.01																		.42
Kirksville AP CAA					.07	.07	.02	.04	.02			.01														.23
Lakeside							.06	.19			.01	.02	.08												.04	.40
Lampe 4 NNE						.01	.04	.05																		.10
Lebanon									*	*	*	*	*	*	*	*	*	.44	*	*	*	*	*	*	*	*
Lecomà 3 N									.24	.39	.02	.05			.19	.21										1.10
Linneus		*	*	*	*	*	*	*	*	.26																.26
Livonia				.03	.01		.01																			.05
Lockwood								.01	.03	.01	.01	.01	.01	.03												.11
Lucerne			.18	.02	.04	.01	.01	.01																		.27
Macon							.03	.05	.01																	.09
Malden																			.05	.08	.06	.30	.04	.38	.03	.94
Marshall AP CAA							.25	.09	.02																	.36
Maryville 6 NNW		.10	.05	.01	.01	.01																				.18
McCredie							.02	.18	.12	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
McCredie Exp. Sta.								.17	.18	.03	.02										.37	.08	.02	.01		.88
Middletown										.07	.15												.03	.01		.26
Mora							.19	.01	.05	.06	.03															.34
Mountain Grove								.17	.01	.01	.04	.01														.24
Nevada						.16	.08	.14	.13	.23							.01	.18				.01	.45	.65	.18	2.22
New Florence AP 1 SE									.10	.15			.01	.05	.01											.32
Osceola							.01	.09	.17	.04	.07		.02						.03	.04			.16	.31	.24	1.18
Owensville									.11	.15	.05	.09		.07	.07		.16									.70
Pattonsburg		.45	.40	.34	.10	.11	.01	.04																		1.45
Perry									.38	.08																.46
Polo					.21	.09	.17	.13	.01																	.61

See reference notes following Station Index.

TABLE 4 — Continued
HOURLY PRECIPITATION

MISSOURI
OCTOBER 1948

STATION	A. M. HOUR ENDING												P. M. HOUR ENDING												TOTAL
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	
Potosi										.10	.18	.09	.05	.01	.08	.10	.04	.16	.01						.82
Richwoods									.01	.09	.16	.14	.05		.05		.01						.01	.01	.53
Ridgeway	.37	.18	.26	.08	.08	.02	.02	.03																	1.04
Rogersville								.05	.05	.04	.15	.01			.01	.02		.01						.01	.35
Rolla School of Mines									.23	.02	.01	.01	.03	.20	.01										.51
Rolla 5 SE								.02	.18	.07	.05			.15	.06										.53
Rolla 3 W							.11	.21	.09	.06	.01	.01	.06	.22	.01										.78
Rolla 4 SE							.01	.12	.22	.03	.02		.03	.15	.02	.01	.01								.62
Rolla 7 S								.10	.35	.04	.03		.02	.18	.04										.76
St. James 3 NW									.17	.05	.03		.02	.10	.03										.40
St. Joseph WB Airport	.41	.33	.02	.08																					.84
St. Louis WB Airport										*	*	*	*	*	*	*	*	*	*	*	*	*	.25		.25
St. Louis WB City											.04	.01	.08	.08		.01			.03		.04		.01		.30
St. Louis Washington Univ.											.03	.05	.08	.03	.01				.04			.02			.26
Salem									.28	.20	.02		.01	.09	.09			.01							.70
Seneca																								.02	.02
Skidmore	.03	.05																							.08
Springfield WB Airport 4 NW								.10	.02	.02	.05					.03	.01							.08	.31
Stanberry	.25	.15	.10	.02	.01																				.53
Steelville								.17	.11	.14	.06			.10	.10										.68
Steffenville						.09	.10	.02																	.21
Sullivan 3 NE									.03	.07	.10	.02	.01	.03	.09										.35
Tarkio AP CAA	.01																								.01
Trenton		.15	.13	.07	.08	.02																			.45
Vichy 2 SE							.39	.07	.18	.02	.04		.01	.18	.01										.90
Vichy AP CAA 2 NW 6								*	*	*	*	*	.21	*	*	*	*	*	.35						
Villa Ridge									.23	.08	.10	.05	.01	.09			.03	.17		.01			.09		.86
Wapapello Dam											.03	.10	.03				.01	.01	.13	.07	.10	.16	.01	.02	.67
Warrensburg 5 E						.03	.12		.01																.16
Washington									.20	.06	.02	.04	.02	.06	.02		.04	.14							.60
Wasola									.10	.02				.22										.02	.36
West Plains									.34	.05	.01				.08										.48
Willow Springs Forest Service									.11	.06			.01	.01	.04								.01		.24
—31st—																									
Advance AP	.01	.03	.01			.01	.09																		.15
Alton 6 ENE		.01			.07	.06																			.14
Belleview		.02		.27	.07			.02																	.38
Bolivar	1.00	.20	.09	.01																					1.30
Cap Au Gris Lock & Dam 25				.25	.07			.05	.01																.38
Cassville Ranger Station		.01	.08	.09																					.18
Clarksville Lock & Dam 24 //	.08		.01	.19	.37	.11																			.76
Clearwater Dam Site			.06	.01	.24	.01																			.32
Columbia WB Airport 6	.25	*	*	*	*	*	.02																		
Columbia WB City				.04	.01																				.05
Columbia Univ. of Mo.		.01	.01																						.02
Dora				.21	.14																				.35
Ellington	.01		.01	.09	.13	.01																			.25
Eminence		.01	.08	.14	.03	.05																			.31
Farmington			.01	.22	.10																				.33
Forsyth			.01	.33	.02																				.36
Fulton			.04																						.04
Hornersville	.04	.06	.42	.36	.01		.02	.04	.02			.01													.98
Houston		.14	.48	.08	.04																				.74
Jefferson City	.01	.11	.03																						.15
Jewett	.09	.01			.11	.02	.01		.01																.25
Joplin AP CAA 6		*	*	*	*	*	.11																		
Kansas City 75th & Holmes	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Lakeside	.46	.19	.09	.01																					.75
Lampe 4 NNE			.01	.09																					.10
Lebanon													*	*	*	*	.67								1.11
Lecoma 3 N			.43	.02	.04				.01																.50
Linneus														.01											.01
Lockwood		.16	.01	.01	.01																				.19
Malden	.01	.04	.02	.03	.01			.14	.01																.26
McCredie	*	*	*	*	*	*	*	.82																	1.14
Middletown				.05	.02		.01																		.08
Mountain Grove	.01	.02	.25	.09	.04			.02	.01	.01															.45
Nevada	.16	.04	.01																						.21
New Florence AP 1 SE			.03																						.03
Osceola	.05	.06	.01																						.12
Owensville	.01	.02	.12	.10																					.25
Potosi				.14	.01																				.15
Richwoods	.01	.01	.04	.30	.01																				.37
Rogersville	.01	.01	.53	.04																					.59
Rolla School of Mines		.29	.15	.03	.02																				.49
Rolla 5 SE		.15	.50	.04	.04																				.73
Rolla 3 W		.73	.08	.05	.02			.01																	.89
Rolla 4 SE		.48	.16	.02	.03	.01	.03																		.73
Rolla 7 S		.53	.12	.02	.04																				.71
St. James 3 NW		.31	.11	.01	.02		.02																		.47
St. Louis WB Airport			*	*	*	*	*	*	*	*	.28														.28
St. Louis WB City			.01		.02	.05				.01															.09
St. Louis Washington Univ.	.01	.01	.02		.01				.04	.01															.10
Salem		.02	.50	.14																					.66
Seneca	.15																								.15
Springfield WB Airport 4 NW		.82	.33																						1.15
Steelville			.20																						.20
Sullivan 3 NE		.07	.08	.08																					.23
Vichy 2 SE	.01	.17	.27	.02	.03																				.50
Vichy AP CAA 2 NW 6		*	*	*	*	*	.57																		
Villa Ridge		.01		.05																					.06
Wappapello Dam	.01	.02	.02			.03	.01	.04																	.13
Washington			.02	.06		.01	.01																		.10
Wasola	.01	.01		.26	.05																				.33
West Plains					.21	.07																			.28
Willow Springs Forest Service	.01	.03	.01	.08	.06																				.19

DAILY TEMPERATURES

Table 5

Station		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Average
Advance AP	MAX	79	75	67	68	72	76	66	69	78	77	68	72	80	76	80	70	49	57	70	68	58	72	65	63	67	72	68	75	78	66	76	70.2
	MIN	49	51	47	41	35	46	46	48	42	46	39	36	36	45	35	46	29	25	29	30	46	39	35	39	38	32	32	35	34	43	52	39.5
Albany	MAX	79	76	71	70	71	65	53	69	65	61	63	73	75	78	78	71	49	71	72	76	66	75	66	68	76	78	74	77	75	72	78	70.7
	MIN	45	48	45	40	45	50	42	44	35	33	34	36	40	36	40	45	27	22	26	37	37	28	29	23	31	35	35	32	50	55	37	37.5
Amity	MAX	79	72	68	67	73	65	52	71	65	64	63	71	75	74	77	71	50	69	68	73	64	74	61	66	73	75	72	77	72	71	76	69.3
	MIN	49	49	50	39	45	50	40	43	44	42	35	38	43	40	47	41	28	28	36	38	41	33	31	31	38	44	45	39	50	55	42	41.1
Anderson 2 SW	MAX	75	80	81	68	66	80	75	67	72	79	77	68	74	75	83	76	67	53	75	74	73	72	74	64	71	75	78	79	77	81		73.6
	MIN	46	46	41	40	42	44	38	43	35	38	35	29	40	42	36	43	34	18	28	34	32	32	32	34	27	37	38	30	40	47		36.7
Appleton City	MAX	80	77	75	68	83	78	59	73	81	76	68	76	82	84	81	79	53	66	73	71	72	71	62	69	69	76	77	77	80	72	75	73.6
	MIN	51	49	45	40	46	53	40	46	41	46	35	35	37	44	46	45	35	24	31	35	49	35	33	33	33	35	41	39	52	57	51	41.4
Arcadia	MAX	76	78	70	70	68	70	75	65	71	70	75	67	68	70	78	70	53	56	70	70	70	75	70	70	65	69	75	72	70	76	65	69.9
	MIN	47	48	43	35	32	41	45	44	39	40	36	35	35	36	34	44	37	22	23	29	49	37	34	32	33	30	30	33	33	39	55	37.1
Bethany	MAX	77	70	66	65	69	66	54	65	62	64	59	67	73	73	76	72	46	67	65	73	67	69	64	63	72	74	75	75	75	75	73	68.1
	MIN	46	46	40	36	42	54	42	44	36	32	35	36	38	38	39	45	28	28	28	37	36	29	28	24	27	30	32	32	44	55	39	37.0
Birch Tree	MAX	82	78	73	69	73	72	66	71	80	74	69	74	71	78	80	72	57	62	76	70	64	71	68	68	70	73	75	76	76	68	78	72.1
	MIN	45	53	44	37	34	47	41	48	38	43	34	34	33	45	35	51	37	20	26	32	48	34	33	32	30	30	36	31	34	48	55	38.3
Bolivar	MAX	84	77	74	71	77	71	62	70	80	72	68	73	78	78	81	71	52	63	75	65	62	72	63	67	73	76	72	75	78	65	75	71.6
	MIN	56	52	47	41	47	55	41	41	45	49	36	40	47	45	51	43	33	27	39	38	50	37	40	33	38	42	46	43	51	58	53	44.0
Boonville Waterworks	MAX	70	80	70	63	64	70	55	70	73	70	59	60	75	73	73	75	50	48	60	68	70	67	68	58	70	74	72	68	73	74	67	67.3
	MIN	53	45	41	35	37	45	41	42	42	41	35	39	42	42	43	49	32	28	35	36	44	36	35	31	38	37	39	39	40	50	53	40.2
Brookfield	MAX	81	84	74	69	70	74	62	52	67	63	65	64	72	81	80	81	55	51	68	70	76	68	73	64	69	74	77	71	79	79	71	70.5
	MIN	53	46	51	38	41	49	43	44	44	43	36	43	42	42	46	49	33	25	30	36	44	31	35	30	32	33	37	36	41	53	50	40.5
Brunswick	MAX	75	71	73	68	68	70	62	63	65	59	60	63	67	78	77	70	55	59	65	69	74	67	70	62	66	72	76	70	77	78	72	68.4
	MIN	56	46	44	40	38	42	44	43	45	40	38	38	42	42	42	48	36	26	26	33	39	35	35	34	34	37	37	42	42	50	55	40.3
Butler	MAX	84	76	72	68	79	70	58	69	79	69	65	72	79	75	81	76	51	64	69	71	70	71	64	64	71	74	76	75	78	74	74	71.5
	MIN	51	46	47	43	49	52	39	45	39	45	33	34	39	41	46	45	34	24	31	34	47	32	35	31	33	36	40	38	53	55	50	40.9
Camdenton	MAX	85	78	74	71	80	75	62	71	81	77	70	74	81	76	82	80	71	65	72	77	71	74	73	68	75	78	78	78	82	80	75	75.3
	MIN	53	52	45	36	44	53	42	50	47	46	40	39	47	42	48	42	34	26	41	40	51	38	42	37	39	42	47	45	50	57	52	44.1
Campbell	MAX	80	77	72	69	72	76	70	71	80	71	68	72	82	77	83	79	75	57	71	69	64	73	69	66	68	72	69					72.3
	MIN	53	55	48	42	41	48	45	45	45	52	43	41	40	46	45	61	40	27	30	41	50	40	41	42	38	38	43					43.7
Canton Lock & Dam 20	MAX	73	64	64	60	66	64	58	64	62	63	58	65	75	68	77	68	49	60	61	70	68	69	65	64	67	73	67	70	72	72	71	66.0
	MIN	51	47	42	37	36	58	44	45	44	42	40	48	38	40	40	49	35	24	36	28	38	49	38	30	34	34	38	40	38	56	53	41.0
Cape Girardeua Mo. State	MAX	80	75	69	68	72	76	69	68	80	74	69	72	80	76	80	78	68	55	71	68	60	72	67	59	67	72	70	77	78	78	74	71.7
	MIN	54	57	46	44	41	51	48	52	47	50	40	42	42	51	43	64	39	28	34	40	50	44	46	40	34	40	43	45	43	52	59	45.5
Caplinger Mills	MAX	83	76	72	69	80	73	64	71	80	74	66	74	81	77	84	75	52	65	72	68	70	72	62	68	74	76	74	74	79	73	74	72.6
	MIN	50	48	47	41	46	55	40	46	40	45	32	33	39	36	44	43	37	24	31	34	51	31	39	28	34	33	38	39	52	56	54	40.8
Carrollton	MAX	81	72	67	66	72	67	54	67	68	61	62	69	77	74	79	71	50	64	66	72	68	67	60	62	69	74	68	72	76	70	67	68.1
	MIN	50	47	41	35	41	53	41	46	39	37	36	38	37	45	44	40	33	24	30	34	46	30	33	26	28	30	34	33	43	55	48	38.6
Carthage	MAX	80	81	76	68	78	71	66	72	80	73	72	74	76	79	82	80	52	63	74	71	64	73	61	67	72	76	78	75	80	74	75	73.0
	MIN	50	48	45	46	46	49	41	45	40	51	34	34	40	39	44	43	33	24	34	33	48	33	40	29	34	34	41	36	43	58	53	40.9
Caruthersville	MAX	77	78	72	69	72	76	69	69	79	77	72	73	82	76	83	79	76	56	70	71	67	73	68	66	70	73	70	76	81	73	71	73.0
	MIN	54	58	53	46	48	53	49	48	45	55	49	42	45	50	50	64	41	33	35	44	52	49	44	45	42	45	45	46	48	53	60	48.1
Chillicothe AP CAA	MAX	80	71	67	66	71	61	51	67	66	63	62	69	77	75	80	65	48	67	67	73	65	71	60	64	72	75	71	76	77	72	69	68.3
	MIN	49	48	42	36	39	46	43	46	43	40	34	39	43	43	44	38	26	22	33	33	40	31	36	32	34	36	40	38	45	54	45	39.3
Clearwater Dam Site	MAX	79	76	74	67	71	74	71	69	79	77	72	73	82	79	80	72	58	59	74	71	66	72	71	64	69	73	70	74	77	74	76	72.4
	MIN	50	55	49	39	37	45	45	52	47	47	40	38	38	47	38	58	39	27	30	33	49	39	36	34	36	34	37	35	36	44	59	41.7
Clinton	MAX	85	75	70	68	80	68	58	70	77	62	66	74	81	77	82	70	52	66	70	75	72	73	61	66	75	77	73	78	81	70	77	71.9
	MIN	55	50	45	40	46	48	43	50	44	40	38	38	40	45	46	43	31	26	35	38	45	36	38	35	36	36	41	39	49	59	52	42.2
Columbia WB Airport	MAX	79	70	66	65	69	62	54	66	73	51	64	67	76	73	79	68	48	62	68	73	70	67	60	63	71	74	67	75	75	69	69	67.5
	MIN	55	47	42	39	43	48	43	47	45	44	37	43	46	44	48	42	31	28	39	42	45	36	38	35	41	41	45	45	49	55	49	43.0
Columbia WB City	MAX	82	72	67	66	71	63	57	67	73	53	63	69	80	75	80	69	49	63	68	74	70	68	60	64	71	74	68	76	77	69	70	68.6
	MIN	53	50	45	42	43	48	43	48	43	41	36	42	46	45	49	43	31	28	36	43	43	36	38	35	42	43	47	48	50	55	54	43.4
Columbia Univ of Mo.	MAX	82	72	68	67	72	70	57	67	73	61	62	68	78	75	79	76	48	62	68	72	70	68	64	63	70	73	69	75	77	69	69	69.2
	MIN	51	45	39	34	36	53	41	43	41	39	35	41	39	42	44	44	31	24	36	37	48	32	35	31	36	35	39	39	44	53	53	40.0
Conception	MAX	80	76	70	66	72	69	52	68	69	62	61	69	76	74	78	74	48	69	68	74	67	70	67	67	76	76	76	76	71	69	74	69.8
	MIN	53	51	46	39	44	50	40	43	44	42	35	39	42	41	46	44	25	28	40	35	40	34	32	32	38	43	44	41	51	54	47	41.4
Crystal City	MAX	81	75	72	67	75	77	70	69	81	70	70	70	83	75	82	74	50	62	72	70	60	68	64	65	68	75	70	77	78	67	76	71.4
	MIN	50	52	45	35	31	50	45	44	43	41	37	42	35	40	33	48	35	22	31	27	48	41	36	29	42	31	35	37	34	44	56	39.3
Doniphan	MAX	81	79	72	70	75	77	69	72	82	75	74	76	83	79	82	76	69	60	77	75	62	74	70	68	70	75	72	77	80	67	81	74.2
	MIN	48	51	45	36	34	44	43	52	39	43	41	35	34	43	35	59	40	22	25	30	48	35	32	31	33	29	35	29	32	42	52	38.6
Edgerton	MAX	82	82	71	70	68	77	58	54	72	62	57	60	71	78	78	79	55	61	71	71	75	74	74	73	71	77	75	74	77	72	74	70.7
	MIN	44	46	47	40	44	51	41	43	37	35	31	34	37	39	40	49	30	22	28	31	35	27	32	25	30	35	34	32	32	54	42	37.0
Eldon	MAX	83	75	69	66	74	66	59	70	79	68	64	72	80	74	80	73	50	65	71	74	64	70	63	64	72	75	68	77	79	67	75	70.5
	MIN	57	47	41	37	40	56	43	46	47	43	38	41	46	44	42	43	33	27	40	38	49	39	41	34	39	39	43	42	48	56	53	43.0
Elsberry	MAX	71	81	73	66	65	70	75	60	66	72	64	62	68	82	72	77	55	49	62	66	67	60	69	61	63	65	73	72	76	75	61	67.7
	MIN	49	47	37	30	29	43	43	42	42	35	37	45	35	36	34	55	31	19	32	24	39	40	34	27	33	32	38	34	32	46	54	37.2
Farmington	MAX	79	74	66	65	72	75	66	67	79	75	65	70	82	74	80	72	49	60	69	69	56	69	62	63	68	73	70	77	75	68	74	69.8
	MIN	50	54	44	39	34	49	44	47	41	43	38	36	37	45	37	48	35	22	34	32	46	39	36	35	38	35	40	37	37	50	55	40.5
Fayette	MAX	82	71	65	67	71	67	55	67	71	55	63	70	76	76	80	66	49	62	68	73	70	70	61	64	71	73	72	75	76	72	71	68.7
	MIN	54	47	42	37	38	54	42	44	40	41	37	42	41	45	46	46	33	25	34	37	49	34	37	34	36	37	40	40	45	51	51	41.3
Fulton	MAX	68	81	70	65	64	69	64	59	68	73	51	62	68	80	72	79	54	50	61	66	72	64	68	59	62	69	73	69	75	77	67	67.1
	MIN	50	48	42	36	33	44	42	44	40	43	38	49	40	44	42	53	34	24	34	31	43	33	39	31	32	33	38	34	41	50	53	39.9
Grant City	MAX	77	74	68	65	69	75	51	66	64	60	59	69	75	72	75	67	55	68	66	74	65	69	71	65	76	71	70	72	72	69	74	68.5
	MIN	47	48	44	38	43	49	40	41	38	34	34	37	43	41	44	42	24	24	33	36	39	30	32	32	43	42	40	40	50	52	51	39.7
Greenville 1 SW	MAX	82	76	74	65	73	78	69	70	77	71	69	74	73	73	78	79	62	56	76	71	62	74	69	69	71	75	72	79	80	62	81	72.3
	MIN	49	50	55	35	34	42	44	51	39	45	38	34	33	40	39	58	40	22	26	28	49	36	32	30	39	30	33	32	31	42	58	39.2
Hannibal Waterworks	MAX	80	68	63	63	67	67	55	64	64	59	59	66	76	71	77	69	49	61	63	68	65	66	58	60	68	74	69	73	74	66	72	66.3
	MIN	53	47	42	39	38	51	42	42	47	45	40	48	44	45	44	40	31	25	38	34	45	46	38	35	37	41	44	46	46	51	54	42.5

See reference notes following Station Index.

DAILY TEMPERATURES

Station		Day of month																														Average
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Harrisonville	MAX	80	82	75	72	67	79	63	65	72	75	66	68	75	81	77	81	51	54	67	71	73	71	75	64	66	73	75	76	75	77	72	71.5
	MIN	54	49	47	43	45	53	42	43	43	47	35	38	42	44	48	50	33	30	34	42	43	38	36	37	39	42	44	44	45	55	54	43.2
Jackson	MAX	81	79	71	72	74	78	69	70	79	73	70	74	82	78	82	73	68	58	73	69	59	72	65	62	69	74	70	78	80	67	76	72.4
	MIN	50	54	45	40	36	46	47	51	41	46	38	36	35	45	35	63	40	25	32	30	50	40	35	37	39	33	34	41	35	45	57	41.3
Jeff City Radio KWOS	MAX	82	73	69	66	73	63	58	68	75	58	63	70	81	75	81	72	50	63	70	74	64	69	62	64	71	75	71	75	75	64	74	69.3
	MIN	52	45	43	33	34	54	43	46	39	41	35	38	35	39	39	44	33	23	33	30	44	32	38	28	30	32	36	33	39	56	52	38.7
Joplin AP CAA	MAX	82	80	76	67	80	70	64	71	79	76	66	75	79	79	84	72	54	62	73	65	62	73	61	67	72	75	77	75	78	73	74	72.3
	MIN	60	50	49	49	49	43	40	43	46	46	37	38	47	44	52	43	33	28	39	40	46	38	40	34	42	40	47	45	56	59	55	44.5
Kansas City WB Airport	MAX	80	72	68	68	79	68	55	72	69	57	65	72	77	74	80	68	50	68	68	72	65	75	62	69	73	75	75	77	74	69	68	69.8
	MIN	54	53	51	46	52	47	44	49	45	44	39	43	54	46	55	40	35	32	38	42	43	37	39	34	36	41	43	42	58	57	50	44.8
Kansas City Univ of K. C.	MAX	81	75	70	67	75	75	56	70	70	67	65	73	77	75	80	78	68	67	69	73	67	74	73	65	73	75	75	76	73	70	68	71.6
	MIN	49	49	49	43	48	52	41	46	40	44	39	36	42	44	55	48	36	25	33	36	47	32	40	30	32	41	39	37	53	56	51	42.4
Kidder	MAX	80	70	65	61	71	65	53	67	63	64	61	68	73	66	76	72	45	67	67	72	64	70	61	64	71	74	71	75	71	71	66	67.2
	MIN	49	47	41	37	43	53	41	43	45	42	35	37	44	42	45	44	26	27	37	38	40	35	34	34	36	40	45	42	50	55	47	41.1
Kirksville	MAX	79	71	67	67	70	64	56	65	62	62	59	67	75	75	77	70	47	65	65	72	65	68	59	65	70	74	75	77	76	70	74	68.0
	MIN	51	45	40	36	36	53	43	42	43	40	36	46	44	41	43	44	30	22	35	34	45	33	35	31	43	38	43	41	44	53	51	40.7
Kirksville AP CAA	MAX	79	69	65	66	71	61	50	65	60	62	58	66	74	74	78	66	46	64	63	71	64	67	58	62	70	72	75	76	74	69	71	66.6
	MIN	50	44	40	34	36	47	43	42	46	43	36	44	43	44	45	37	24	22	34	38	40	32	36	32	35	37	43	43	43	53	46	39.7
Koshkonong	MAX	82	79	73	69	76	74	67	72	81	74	69	75	81	80	81	80	57	61	76	71	64	73	68	69	71	74	76	75	79	68	80	73.4
	MIN	51	59	49	41	44	51	42	49	48	52	40	46	48	52	46	52	38	28	35	43	52	43	45	39	37	41	46	44	45	57	56	45.8
Lakeside	MAX	70	84	76	71	69	77	64	60	69	77	68	68	73	75	77	81	68	53	63	73	75	68	71	63	67	74	77	70	77	79	67	71.1
	MIN	54	48	42	36	36	51	47	50	41	44	39	39	37	40	40	48	37	26	35	31	38	36	41	31	32	33	37	34	39	44	52	39.9
Lamar	MAX	73	80	75	73	67	79	70	73	71	79	75	66	74	77	76	82	55	53	62	73	62	66	73	61	65	73	75	76	72	78	70	71.1
	MIN	47	50	47	45	48	57	39	39	41	45	33	35	37	42	50	53	31	25	26	35	38	32	35	29	34	36	39	41	44	53	52	40.6
Lathrop 3 SW	MAX	80	70	68	66	75	71	53	70	66	62	62	70	76	75	77	73	49	68	68	75	76	74	65	65	72	74	73	76	74	76	73	70.1
	MIN	55	46	44	41	47	51	39	46	45	41	34	38	42	41	48	40	28	26	38	39	42	36	32	35	39	41	46	46	51	46	48	42.0
Lebanon	MAX	82	76	71	71	79	69	62	70	80	75	66	74	81	77	80	75	51	63	74	71	62	70	61	68	70	77	71	77	78	67	78	71.8
	MIN	51	52	44	35	40	58	40	45	46	46	34	36	47	45	57	42	33	23	42	39	49	37	39	41	36	37	46	40	50	57	52	43.2
Lexington	MAX	80	83	75	70	69	77	60	64	68	71	61	65	71	78	76	80	50	50	65	69	74	67	71	62	65	73	75	71	75	77	69	69.7
	MIN	55	48	44	40	45	51	44	43	45	44	38	39	43	44	46	49	34	32	37	39	42	39	37	34	39	42	45	44	46	54	51	43.0
Licking 4 N	MAX	80	80	76	68	71	76	61	68	77	73	67	72	80	77	78	69	44	56	71	69	60	68	62	67	69	73		72	75	65		69.8
	MIN	47	50	42	33	37	39	38	46	40	44	37	32	40	40	44	42	32	24	39	39	48	33	34	31		37		36	43	54		39.3
Lockwood	MAX	76	79	74	72	80	70	62	72	81	75	67	74	80	79	83	74	53	64	75	61	65	74	63	67	74	72	76	74	79	70	76	72.3
	MIN	50	52	49	45	52	49	40	45	46	54	36	40	51	41	52	46	32	27	42	36	36	35	38	30	36	38	45	43	51	58	53	43.5
Louisiana Starks Nurs.	MAX	83	75	68	68	70	75	65	68	70	59	60	68	81	73	78	71	50	61	67	68	61	69	63	65	68	75	73	76	75	69	73	69.2
	MIN	52	46	37	30	29	57	47	44	45	42	42	49	37	37	37	47	33	20	43	26	46	46	39	28	32	33	35	38	33	53	55	39.9
Macon	MAX	76	81	70	65	65	71	60	54	67	67	62	59	69	75	75	78	54	50	64	67	73	67	68	60	63	71	73	72	77	75	72	67.7
	MIN	53	44	39	33	34	38	41	41	44	43	37	37	47	42	40	42	33	25	30	33	39	31	32	30	32	37	39	38	38	43	50	38.2
Marble Hill	MAX	80	77	70	70	73	76	69	71	69	74	70	74	82	80	81	71	58	60	75	75	60	74	66	65	70	74	68	75	73	68	80	71.9
	MIN	42	47	42	34	31	39	40	45	37	40	33	31	30	39	30	47	34	20	26	24	43	33	29	31	35	28	28	33	28	36	51	35.0
Marshall AP CAA	MAX	81	74	70	68	79	61	52	68	70	55	62	69	76	78	80	65	48	63	69	72	68	69	61	65	71	74	71	75	78	70	68	68.7
	MIN	49	44	40	35	38	46	42	46	39	36	32	36	41	39	42	38	27	24	32	32	39	30	32	31	33	35	38	39	47	56	47	38.2
Marshfield	MAX	79	74	69	66	86	68	60	66	77	72	66	68	77	75	79	70	47	59	69	67	59	65	62	64	69	72	68	74	75	69	72	69.1
	MIN	49	52	43	40	46	48	39	46	43	48	36	36	43	46	52	41	32	23	32	46	47	34	39	36	39	39	46	44	53	56	51	42.7
Maryville	MAX	76	68	65	64	69	65	50	61	61	57	58	65	69	68	75	67	46	66	64	72	66	67	60	62	71	74	73	72	70	69	72	65.9
	MIN	52	51	47	42	46	49	41	45	45	38	34	38	41	42	46	43	24	25	39	39	37	33	32	33	35	40	41	43	53	54	45	41.1
Memphis	MAX	79	80	78	70	68	69	59	52	66	62	60	61	69	77	76	78	56	48	65	65	72	67	70	62	61	73	75	73	77	75	71	68.2
	MIN	57	56	40	37	36	56	44	42	44	40	43	39	42	42	43	47	31	24	25	30	30	41	40	33	41	30	37	42	39	44	57	40.1
Mexico	MAX	71	83	72	67	67	73	64	57	68	72	52	62	70	80	74	83	52	51	62	71	75	68	69	61	63	73	77	73	78	79	69	68.9
	MIN	54	45	40	34	33	41	42	43	44	42	37	40	46	43	44	48	31	25	35	36	42	33	36	30	36	40	44	43	41	46	55	40.3
Monett	MAX	73	79	75	72	66	79	71	64	69	78	75	65	72	74	70	68	67	81	68	72	70	60	68	70	66	72	74	74	72	72	77	71.4
	MIN	54	54	50	46	46	50	39	39	46	39	43	40	42	46	40	39	32	31	39	42	48	37	36	37	39	42	48	44	49	56	59	43.6
Mountain Grove	MAX	83	79	74	71	73	66	62	68	79	72	68	73	79	77	78	72	51	60	73	68	62	69	67	67	68	73	69	72	76	69	77	70.8
	MIN	51	52	44	36	44	51	39	49	48	53	36	41	48	46	49	46	34	25	40	44	49	38	39	34	39	45	49	47	50	52	52	44.2
Neosho	MAX	82	78	78	73	79	73	66	72	80	77	72	75	77	81	83	73	53	63	75	72	65	75	69	70	75	78	79	77	80	74	80	74.3
	MIN	54	46	45	44	47	57	40	44	42	46	33	33	38	36	42	44	35	21	32	31	50	33	40	28	32	32	39	35	54	54	54	40.7
Nevada	MAX	85	79	77	68	82	74	62	74	80	74	69	76	84	80	84	75	55	65	77	69	74	77	65	70	74	77	80	75	78	72	74	74.4
	MIN	54	51	50	46	48	54	40	46	42	43	35	34	49	45	49	45	32	26	35	35	53	32	40	34	35	38	43	41	53	56	54	43.2
New Florence AP 1 SE	MAX	81	71	65	63	69	72	58	66	72	51	60	66	78	70	78	69	48	59	65	68	59	66	59	61	67	72	71	75	73	64	71	66.7
	MIN	54	47	40	36	38	54	42	44	43	40	36	44	41	44	42	42	29	23	37	35	44	43	38	33	35	37	42	40	41	53	53	41.0
Oregon	MAX	77	70	69	66	75	64	52	71	63	61	63	72	75	73	78	68	51	70	68	75	68	73	62	66	74	75	73	75	69	72	76	69.2
	MIN	49	51	47	44	52	45	42	46	47	39	35	40	47	42	48	37	27	32	38	42	41	34	33	35	43	46	49	46	56	52	48	43.0
Ozark Beach	MAX	86	83	76	77	75	80	75	69	69	83	76	71	77	79	85	84	79	55	65	78	73	66	76	69	71	74	77	75	74	81	70	75.1
	MIN	52	45	43	40	42	50	42	45	42	48	39	36	37	40	42	52	39	27	29	34	40	40	36	34	34	35	37	36	43	46	56	40.7
Polo	MAX	78	79	69	69	68	72	57	53	67	65	61	62	70	69	76	77	53	48	67	73	72	64	71	59	65	73	72	69	76	75	72	67.8
	MIN	44	44	42	40	40	50	41	43	43	42	36	40	44	42	41	48	30	29	36	37	43	35	33	34	38	41	45	46	47	53	50	41.2
Poplar Bluff	MAX	82	80	72	74	75	77	69	72	80	74	72	75	82	82	83	76	73	60	78	72	60	77	70	70	71	77	70	78	80	65	80	74.4
	MIN	48	55	49	41	36	44	45	51	40	47	43	36	35	44	37	62	41	25	30	32	49	36	33	39	40	33	37	33	35	42	59	41.2
Rolla School of Mines	MAX	78	80	75	68	65	73	68	65	69	79	75	65	71	82	74	80	61	49	62	70	73	60	69	61	61	70	75	72	75	76	68	70.0
	MIN		51	45	39	39	53	41	48	45	46	38	40	46	51	43	60	34	28	40	37	53	39	40	36	36	39	43	44	44	56	54	43.6
Saint Charles	MAX	83	73	68	68	73	76	64	65	75	61	63	69	81	72	78	68	51	61	70	67	59	67	62	63	68	74	73	77	77	66	75	69.3
	MIN	55	53	44	40	39	54	46	45	47	42	39	50	44	45	44	47	36	27	38	34	50	42	40	35	38	40	45	42	42	54	58	43.7
Saint Joseph WB Airport	MAX	78	71	70	68	77	67	54	70	65	64	64	72	74	74	78	64	50	70	70	73	65	73	62	68	75	76	75	77	70	71	76	69.7
	MIN	48	51	48	44	49	46	43	45	41	40	37	36	40	41	45	41	29	27	35	39	38	31	35	32	34	36	39	39	49	50	44	40.4
Saint Louis WB Airport	MAX	80	70	62	63	70	75	60	65	74	54	62	67	81	69	78	70	49	59	66	66	57	66	59	61	66	71	71	76	74	65	74	67.1
	MIN	56	52	45	44	38	52	45	45	50	43	40	51	46	47	43	45	34	28	39	38	48	42	42	36	43	42	45	44	44	52	58	44.4
Saint Louis WB City	MAX	81	70	63	66	71	74	60	64	74	57	60	66	80	71	78	70	47	58	65	65	58	66	60	63	65	73	70	77	74	65	71	67.2
	MIN	59	55	48	46	46	54	46	45	51	44	42	51	51	53	49	46	36	33	46	44	48	46	45	42	44	45	48	52	52	54	58	47.7

See reference notes following Station Index.

DAILY TEMPERATURES

Table 5-Continued

Station		Day of month																															Average
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Saint Louis Univ.	MAX	79	70	63	64	69	75	61	64	74	58	60	66	80	69	78	71	51	59	65	65	58	65	60	62	63	70	69	73	73	66	72	66.8
	MIN	58	54	48	47	47	54	47	45	50	44	41	50	49	52	49	46	37	31	45	43	50	46	45	41	43	45	49	53	51	54	59	47.5
Saint Louis Wash. Univ.	MAX	72	82	70	65	66	72	77	63	65	76	58	62	67	81	72	79	72	49	59	66	68	57	66	60	62	65	72	71	75	76	65	68.1
	MIN	55	51	45	44	39	48	45	44	46	43	39	44	43	46	41	50	35	26	33	33	44	42	42	39	40	38	42	42	41	47	56	42.7
Salem	MAX	76	79	75	68	65	70	70	63	69	79	75	65	70	81	75	79	71	49	61	70	72	61	68	61	67	70	73	70	75	76	62	69.8
	MIN	48	52	41	30	31	36	41	44	42	44	36	36	38	41	40	60	34	22	27	41	45	35	36	28	29	37	40	35	40	47	55	39.1
Salisbury	MAX	81	73	69	68	72	65	54	67	72	60	64	70	80	77	81	71	50	65	70	75	69	69	64	66	73	76	73	79	78	73	73	70.2
	MIN	53	45	41	36	37	52	43	43	45	41	37	43	42	42	45	45	34	26	33	35	49	34	35	33	37	36	41	40	45	54	55	41.2
Saverton Lock & Dam	MAX	78	72	64	71	68	72	63	64	75	59	58	65	79	70	77	73	52	62	60	64	63	66	58	60	66	73	67	73	72	67	70	67.1
	MIN	52	48	41	38	37	56	42	41	46	44	40	48	41	42	40	45	33	24	34	30	44	44	40	33	36	36	40	42	39	49	51	41.2
Sedalia	MAX	81	75	69	67	76	71	55	69	73	65	63	70	78	76	81	76	50	62	68	72	70	68	66	63	70	74	70	78	79	74	72	70.4
	MIN	55	46	45	42	44	55	42	46	45	48	36	40	47	41	51	50	34	30	37	42	50	36	36	37	41	43	46	46	54	57	55	44.4
Seligman	MAX	76	78	73	61	77	72	62	63	76	74	64	70	70	77	82	72	49	60	72	70	58	69	63	65	72	74	72	75	75	70	78	70.0
	MIN	56	54	49	44	54	49	38	47	46	51	36	39	46	46	49	40	33	36	39	41	38	38	41	38	39	41	45	45	54	61	56	44.8
Seymour 4 NE	MAX	84	79	76	71	68	74	66	72	66	78	72	62	70	78	78	77	68	48	59	71	63	67	67	61	65	78	72	66	71	74	72	70.1
	MIN										47	31	32	36	42	47	42	33	19	35	39	47	31	35	30	32	33	37	35	35	55	49	37.4
Shelbina	MAX	79	68	69	64	70	64	55	67	65	60	60	69	76	74	78	72	50	62	66	71	70	63	59	63	70	74	68	71	75	70	75	67.6
	MIN	50	43	39	34	39	54	41	42	43	44	37	48	41	41	44	45	32	24	34	36	47	34	35	31	37	38	42	45	44	52	52	40.9
Sikeston	MAX	71	80	77	75	71	74	76	68	71	80	71	70	72	82	79	82	79	49	58	71	70	61	73	66	66	70	73	71	76	80	71	72.0
	MIN	53	55	46	42	40	45	47	49	45	49	42	40	41	44	40	44	39	25	28	35	39	42	39	38	35	37	38	38	38	40	54	41.5
Springfield WB Airport	MAX	79	75	71	68	75	68	62	68	79	73	62	70	78	77	80	67	49	60	73	64	59	69	60	65	70	73	69	71	76	65	75	69.4
	MIN	54	53	47	44	50	45	40	46	44	46	36	41	41	44	52	42	33	25	35	43	46	40	40	37	41	42	48	45	52	57	53	43.9
Steffenville	MAX	80	72	65	66	72	63	57	67	64	63	59	67	75	73	78	71	50	63	64	70	68	65	61	63	70	73	71	75	75	70	71	67.8
	MIN	51	44	39	37	32	56	43	43	45	45	39	47	42	40	43	47	33	23	34	28	45	39	35	30	32	36	38	41	38	53	52	40.3
Sweet Springs	MAX	84	74	69	67	77	70	62	69	71	61	64	70	78	74	80	75	52	65	69	73	70	69	63	64	71	75	71	75	79	74	74	70.6
	MIN	50	44	41	36	41	54	41	46	39	41	34	37	37	38	45	47	34	24	30	34	48	31	34	32	31	31	35	34	44	55	54	39.4
Tarkio AP CAA	MAX	77	74	70	69	74	66	53	71	63	57	62	72	73	72	79	54	50	72	68	75	63	72	61	66	74	77	75	74	70	70	74	68.6
	MIN	42	48	48	44	44	44	42	42	36	30	35	32	38	36	36	32	24	24	26	38	31	26	26	24	27	32	33	32	53	43	37	35.6
Trenton	MAX	80	74	67	66	72	67	60	67	64	65	61	70	75	76	78	70	58	69	68	75	68	72	65	66	73	73	76	76	75	72	75	70.1
	MIN	52	49	44	39	41	54	44	41	44	41	38	43	42	43	44	48	30	25	36	37	40	35	36	33	36	37	43	40	47	58	50	41.6
Union 2 SE	MAX	81	74	66	66	74	75	64	68	77	63	63	78	81	72	80	71	50	60	68	71	60	67	62	62	66	73	72	75	76	64	74	69.5
	MIN	52	49	41	31	30	50	44	45	39	39	36	40	35	39	35	44	34	22	30	27	45	41	34	28	33	30	34	32	35	44	52	37.7
Unionville	MAX	80	77	68	68	64	69	60	51	64	62	59	60	66	71	73	75	55	46	66	63	71	62	61	60	63	70	74	74	75	75	71	66.2
	MIN	49	41	39	33	34	49	40	40	40	34	37	38	41	42	43	46	29	22	27	35	35	33	34	31	35	36	39	38	38	50	46	37.9
Vandalia	MAX	82	73	65	65	70	70	59	66	69	62	63	67	78	72	77	73	59	60	65	69	63	67	58	62	68	74	67	74	74	67	72	68.1
	MIN	52	42	38	34	34	54	43	44	43	39	38	38	37	37	40	40	30	22	33	30	46	42	37	28	34	41	40	38	40	50	56	39.4
Vichy AP CAA 2 NW	MAX	79	72	66	64	71	69	59	68	77	68	62	69	80	72	78	69	48	60	67	72	58	67	60	60	69	73	71	74	74	64	73	68.2
	MIN	55	47	44	37	42	50	42	46	46	41	37	40	48	45	46	42	31	29	37	41	47	41	39	35	40	43	47	49	47	55	52	43.3
Wappapello Dam	MAX	78	81	72	68	69	71	74	66	70	79	74	68	72	81	76	80	73	49	59	74	68	58	71	67	64	68	72	68	74	77	65	70.5
	MIN	53	56	48	43	43	49	45	52	46	53	44	41	42	50	44	55	40	30	31	36	48	41	39	40	40	39	41	39	40	47	56	44.2
Warrensburg Central T C	MAX	84	74	70	69	80	74	54	71	73	62	66	73	81	76	80	78	51	66	70	74	71	72	67	65	72	75	70	76	78	75	73	71.6
	MIN	57	49	45	40	47	54	42	47	47	46	36	41	48	47	51	46	35	31	40	41	51	39	35	36	40	46	46	46	55	57	56	45.1
Warrenton	MAX	83	72	65	64	71	72	61	68	75	65	62	70	82	76	79	69	52	61	69	70	59	69	62	67	68	74	73	76	73	62	74	69.1
	MIN	53	45	40	31	32	55	42	43	44	38	36	42	42	38	43	44	32	22	35	31	43	46	38	27	37	39	43	36	42	52	57	40.3
Warsaw No. 1	MAX	85	83	74	70	81	77	59	72	80	77	68	75	80	79	83	77	50	65	74	74	73	73	64	67	75	77	76	78	80	80	77	74.6
	MIN	54	45	47	46	50	57	43	49	42	48	38	36	35	38	42	45	35	26	34	33	34	32	35	32	30	32	32	35	45	58	52	40.6
Wasola	MAX	83	81	74	70	76	70	65	71	81	72	79	72	80	81	81	72	52	63	76	69	62	75	69	70	74	80	73	73	80	69	82	73.4
	MIN	50	57	44	40	43	54	37	47	46	50	32	35	41	41	45	42	35	26	34	40	47	38	42	35	35	40	42	42	47	53	51	42.3
Webster Groves	MAX	80	72	67	66	72	76	62	65	77	66	62	66	78	69	77	69	47	58	66	66	59	65	58	62	64	72	71	74	76	64	73	67.7
	MIN	52	50	43	40	35	47	43	43	45	40	40	47	39	43	38	45	34	23	35	30	42	41	38	34	39	34	39	39	38	45	56	40.5
Weingarten	MAX	80	72	66	68	73	75	68	68	80	72	67	70	82	76	81	73	50	60	69	69	57	70	61	63	63	74	70	79	77	67	75	70.2
	MIN	52	52	43	38	37	48	44	45	47	43	36	41	47	47	42	46	35	25	40	37	49	42	41	45	41	42	45	43	48	54	55	43.5
West Plains	MAX	82	78	73	70	73	71	66	70	81	73	67	75	81	79	81	79	51	61	76	69	63	73	67	69	71	75	73	74	78	67	80	72.5
	MIN	48	53	43	37	38	48	43	45	43	46	36	37	36	43	38	43	29	24	30	32	41	37	36	34	31	32	37	33	37	46	55	39.1
Willow Springs	MAX	78	75	69	65	72	70	62	67	78	70	65	71	78	77	78	72	49	58	72	68	60	69	62	67	70	74	69	74	77	62	75	69.5
	MIN	48	53	47	41	38	49	41	49	41	46	35	37	35	44	41	46	36	23	30	38	49	35	36	35	32	33	40	34	36	51	53	40.4

See reference notes following Station Index.

TABLE 6

DAILY EVAPORATION (INCHES) AND WIND MOVEMENT (MILES)

STATION		DAY OF MONTH 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	TOTAL	DEPARTURE FROM NORMAL
Columbia Univ. of Mo.	EVAP	.098	.131	.139	.106	.082	.063	.070	.056	.103	.052	.064	.097	.111	.107	.167	.130	.122	.114	.115	.149	.130	.101	.097	.064	.081	.089	.067	.092	.145	.165	.064	3.171	
	WIND	6	15	7	3	21	49	113	74	7	2	35	24	23	1	51	86	86	60	38	39	54	12	49	3	20	5	5	8	39	68	11	1014	
Lakeside	EVAP	.046	.179	.166	.161	.151	.145	.062	.143	.121	.135	.064	.102	.126	.101	.126	.202	.062	.109	.138	.121	.127	.033	.100	.103	.083	.090	.090	.044	.082	.189		3.401	
	WIND	12	36	34	38	40	79	117	173	61	25	47	48	31	21	22	78	66	61	51	30	38	37	25	42	22	18	12	8	16	69	45	1400	
Saint Louis Wash. Univ.	EVAP	.052	.125	.119	.118	.078	.078	.099	.082	.012	.104	.039	.068	.055	.064	.067	.058	.088	.078	.061	.071	.066	.022	.034	.052	.043	.030	.031	.042	.039	.064		1.919	
	WIND	2	20	46	18	10	10	37	22	7	26	24	19	11	4	9	14	67	35	10	18	15	9	11	38	9	4	3	2	1	3	14	518	

TABLE 7

DAILY RIVER STAGES (FEET)

RIVER AND STATION	FLOOD STAGE	DAY OF MONTH 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	HIGHEST (OR CREST)	DATE	LOWEST	DATE
Bourbeuse																																				
Union 2 SE	12	.1	.1	.1	.1	.1	.1	.0	- .1	- .1	- .1	.4	.4	.4	.4	.3	.3	.4	.4	.3	.3	.3	.3	.3	.3	.3	.2	.1	.1	.1	.1	.2	.4	11+	-.1	8+
Meramec																																				
Sullivan 3 NE	11	1.3	1.3	1.3	1.3	1.3	1.3	1.5	1.6	1.6	1.5	1.5	1.4	1.4	1.4	1.4	1.5	1.6	1.6	1.7	1.6	1.6	1.5	1.5	1.5	1.4	1.4	1.4	1.4	1.4	1.4	1.6	1.7	19	1.3	1+
Valley Park	14	-1.7	-1.7	-1.7	-1.7	-1.7	-1.7	-1.7	-1.7	-1.7	-1.7	-1.4	-1.5	-1.5	-1.6	-1.6	-1.6	-1.5	-1.4	-1.3	-1.3	-1.3	-1.3	-1.4	-1.4	-1.5	-1.5	-1.5	-1.5	-1.5	-1.6	-1.4	-1.3	19+	-1.7	1+
Mississippi																																				
Hannibal	13	10.0	10.0	10.0	9.8	9.9	9.9	10.4	10.1	10.2	10.0	9.9	9.9	9.9	9.7	10.1	10.2	10.1	9.7	9.8	10.2	10.5	10.2	9.8	9.9	10.1	10.1	9.9	9.7	9.7	9.8	10.1	10.5	21	9.7	14+
Saint Louis WB City	30	- .5	- .1	.0	.6	.5	- .2	.0	1.1	.8	.6	.6	.4	.5	.8	.7	.6	2.1	.4	.2	.1	.2	.3	.7	.6	- .2	- .3	- .4	- .3	- .1	- .3	- .3	2.1	17	-.5	1
Cape Girardeau	32	7.9	8.2	8.3	8.6	8.7	9.0	8.8	8.5	9.0	9.4	9.4	9.1	9.0	8.9	9.2	9.2	9.3	9.8	9.6	8.9	8.9	8.7	8.7	9.1	9.2	8.9	8.4	8.2	8.1	8.3	8.3	9.8	18	7.9	1
Thompson Fork																																				
Trenton	20	3.4	3.4	3.3	3.3	3.3	3.3	3.4	3.5	3.4	3.4	3.4	3.4	3.4	3.4	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.6	3.5	3.6	30	3.3	3+
Grand																																				
Gallatin	20	2.2	2.2	2.2	2.2	2.2	2.1	2.4	2.4	2.5	.0	2.4	2.4	2.3	2.3	.0	2.3	.0	.0	2.2	2.2	2.2	2.1	2.2	.0	2.2	2.2	2.2	.0	.0	2.3	3.2	3.2	31		
Chillecothe 2 S	18	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.7	3.9	3.7	3.7	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.5	3.5	3.5	3.5	3.5	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.9	9	3.4	1+
Brunswick	12	3.0	2.9	2.6	2.5	2.5	2.6	2.6	2.4	2.4	2.8	3.6	3.8	3.2	2.9	2.8	3.1	3.4	3.2	3.0	3.0	3.0	3.0	2.8	2.8	2.9	2.8	3.0	3.0	3.0	3.0	3.2	3.8	12	2.4	8+
Osage																																				
Osceola	22	1.1	1.1	1.1	1.1	1.1	1.0	1.0	1.0	1.0	1.0	1.1	1.1	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.9	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.1	3.2	3.2	31	1.0	6+
Warsaw No. 2	31	22.7	22.4	22.4	22.4	22.1	21.8	21.6	21.3	21.1	21.1	21.0	20.8	20.6	20.4	20.3	20.1	20.1	20.1	19.8	19.8	19.7	19.6	19.6	19.6	19.6	19.2	19.0	19.0	19.0	19.0	19.1	22.7	1	19.0	27+
Lakeside		54.4	54.2	54.2	54.1	53.7	53.5	53.4	53.2	52.9	52.9	52.9	52.6	52.4	52.2	52.0	51.9	51.9	51.9	51.6	51.5	51.5	51.4	51.4	51.4	51.3	51.2	51.0	50.8	50.8	50.7	50.8	54.4	1	50.7	30
Saint Thomas	23	6.8	6.3	2.3	1.8	7.1	6.1	5.9	5.4	6.5	2.3	1.8	6.0	5.9	5.2	5.1	5.0	2.2	1.8	5.6	3.9	2.9	4.4	3.0	2.0	1.8	5.8	5.5	4.0	3.3	2.4	2.0	7.1	5	1.8	4+
Gasconade																																				
Jerome	15	1.7	1.7	1.6	1.6	1.6	1.6	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.8	1.8	31	1.6	3+
Missouri																																				
Saint Joseph WB Apt.	17	8.0	7.9	7.9	8.2	8.1	8.1	8.1	8.4	9.4	9.1	8.7	8.1	8.4	8.7	9.0	8.8	8.4	8.5	8.4	8.3	8.2	8.1	8.2	8.3	8.4	8.4	8.4	8.4	8.4	8.8		9.4	9	7.9	2+
Kansas City WB Airport	22	7.8	7.5	7.5	7.6	7.7	7.5	7.6	7.6	8.2	9.0	8.6	8.2	7.9	7.8	8.3	8.4	8.0	7.9	7.8	8.0	7.9	7.8	7.8	8.0	8.0	8.0	8.0	8.1	8.1	8.2	8.8	9.0	10	7.5	2+
Waverly	18	8.9	8.7	8.4	8.4	8.5	8.5	8.5	8.4	8.5	9.6	10.3	9.7	9.2	9.0	9.3	9.7	9.7	9.4	9.2	9.2	9.2	9.2	9.0	9.0	9.1	9.1	9.1	9.1	9.2	9.3	9.3	10.3	11	8.4	3+
Boonville	21	7.0	7.3	7.2	6.9	6.8	7.0	7.0	7.0	6.9	7.0	8.0	8.7	8.2	7.7	7.4	7.7	8.0	8.1	7.8	7.6	7.5	7.5	7.4	7.2	7.2	7.3	7.4	7.4	7.4	7.4	7.5	8.7	12	6.8	5
Hermann	21	8.3	8.0	8.3	7.4	7.0	7.8	8.5	7.8	7.4	8.0	7.2	7.7	9.2	9.0	8.5	8.0	8.1	8.2	8.0	8.5	8.1	7.5	7.7	7.6	7.2	7.2	7.9	8.2	7.7	7.5	7.5	9.2	14	7.0	5
Saint Charles	25	11.4	11.6	11.4	11.5	11.2	10.9	11.4	11.5	11.5	11.4	11.7	11.0	11.3	12.5	12.8	12.0	11.9	12.0	11.8	11.8	11.9	11.7	11.5	11.2	11.1	10.9	10.6	11.0	11.2	11.2	11.3	12.5	14	10.6	27
Current																																				
Doniphan 2 W	12	1.9	1.9	1.8	1.8	1.8	1.8	1.9	1.9	1.9	1.9	1.8	1.8	1.8	1.8	1.8	1.8	1.9	1.9	1.9	1.9	1.9	1.9	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.9	1.9	1+	1.8	3+
Black																																				
Leeper	11	1.7	1.7	1.6	1.7	1.7	1.7	1.7	1.8	1.8	1.8	1.7	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.7	1.7	1.7	1.6	1.7	1.8	8+	1.6	3+
Poplar Bluff	16	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.9	1.9	1.8	2.0	2.1	1+	1.8	30
White																																				
Forsyth		.7	.7	.7	.7	.7	.7	.7	.7	.7	.7	.7	.7	.7	.7	.7	.7	.7	.7	.7	.7	.7	.7	.7	.7	.7	.7	.7	.7	.7	.7	.7	.7	1+	.7	1+
St. Francis																																				
Fisk	20	4.4	4.0	2.3	1.6	1.3	1.2	1.2	1.2	1.1	1.2	1.2	1.2	1.2	1.2	1.2	1.1	1.3	1.3	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	4.4	1	1.1	9+
Mississippi																																				
New Madrid	34	3.6	4.0	3.5	3.3	4.3	4.3	4.4	3.9	3.6	3.8	3.5	3.8	4.6	4.8	4.3	3.9	3.8	4.3	4.8	5.2	5.7	5.2	4.7	4.7	4.6	4.5	4.2	4.1	3.8	3.9	4.0	5.7	21	3.3	4
Caruthersville	32	2.4	1.8	1.5	1.4	1.8	2.5	2.4	2.2	1.7	1.9	1.8	1.7	2.2	3.1	3.0	2.4	1.9	1.9	2.6	3.2	3.7	3.7	3.0	2.9	2.9	2.9	2.6	2.3	2.1	1.9	2.2	3.7	21+	1.4	4

The following reference notes apply only to Table 7 - Daily River Stages:

Readings are made at approximately 7 a.m. (Local time). They are provisional and subject to correction. Final and corrected stages will be published in the annual publication "Daily River Stages - Principal Rivers of the United States".

a Obstructed by rough ice.
b Frozen but open at gage.
c Upper surface of smooth ice.
d Ice gorge above gage.
e Ice gorge below gage.
f Shore ice.
g Floating ice.
h Pool stage.
i Dry at gage.
j Interpolated.

STATION INDEX

STATION	INDEX NO.	COUNTY	DRAINAGE	LAT. °	LAT. '	LONG. °	LONG. '	ELEV. (FT.)	TIME OF OBSERVATION			YEARS OF RECORD			OBSERVER	REFER TO TABLES
									ZONE	TEMP.	PRECIP.	TEMP.	PRECIP.	EVAP.		
Advance AP	0022	Stoddard	St. Francis	37	06	89	55	354	C	MID	MID	11	11		U.S.Airway Com. Sta.	2 3 4 5
Alhany	0051	Gentry	Grand	40	15	94	20	930	C	6P	6P	7	19		William J. Butler	2 3 5
Alton 10 mi. SE	0122	Oregon	Black	36	41	91	24		C		6P		7		Dr. J. D. Brock	3
Alton 6 mi. ENE	0127	Oregon	Black	36	42	91	19		C				8		Loyd E. Black	3 4
Altona	0135	Bates	Osnge	38	24	94	13		C		8A		12		Inn Chitty	3
Amity	0143	DeKalb	Grand	39	52	94	26	1620	C	6P	6P	2	13		O. M. Colhour	2 3 5
Amsterdam	0151	Bates	Osage	38	21	94	35		C				8		R. A. Kershner	3 4
Anderson 2 mi. SW	0164	McDonald	Neosho	36	39	94	21	1000	C	7A	7A	44	49		Samuel G.Chamberlain	2 3 5
Annapolis	0179	Iron	Black	37	20	90	47		C		7A		4		Opal G. Rutter	3
Appleton City	0204	St. Clair	Osage	38	13	94	05	800	C	6P	6P	53	56		F. Paul Eye	2 3 4 5
Arcadia	0224	Iron	St. Francis	37	35	90	37	926	C	7A	7A	67	70		Arcadia College	2 3 5
Ashton	0312	Clark	Mississippi	40	27	91	49		C						E. E. St.Clair	3 4
Auxvnsse	0357	Callaway	Missouri	39	01	91	54		C		7A		5		C. H. Hook	3
Ava Ranger Sta	0365	Douglas	White	36	57	92	40		C		8A		3		U.S. Forest Service	3
Bedford	0503	Livingston	Grand	39	42	93	23		C				8		Harry S. Stephans	3 4
Belleview	0539	Iron	Meramec	37	41	90	44		C		7A		12		Edna M. Keesling	3 4
Bernie	0595	Stoddard	St. Francis	36	40	89	58		C		7A		3		Carrie P. Wicks	3
Bethany	0608	Harrison	Grand	40	15	94	02	916	C	6P	6P	53	55		B. A. McGregor	2 3 5
Birch Tree	0668	Shannon	Black	36	59	91	30	1000	C	5P	7A	53	54		Mildred E. Catlett	2 3 5
Black 9 mi. NW	0695	Iron	Black	37	36	91	03	1000	C	7P	7P	55	55		J. Cornell Shy	2 3 5
Bloomfield	0735	Stoddard	St. Francis	36	54	89	57		C		7A		3		R. Lynn Marine	3
Blue Lick	0747	Saline	Saline	38	59	93	12		C		7A				W. H. Jocohy	3
Bolivar	0789	Polk	Osage	37	37	93	25	1071	C	5P	5P	45	53		SW Baptist College	2 3 4 5
Boonville	0812	Cooper	Missouri	38	58	92	45		C		7A		71		Rufus W. Weed	3 7
Boonville Waterworks	0817	Cooper	Missouri	38	58	92	45	650	C	8A	8A	10	10		Boonville Water Dept	2 3 5
Bowling Green	0856	Pike	Mississippi	39	21	91	12		C		8A		18		Virgil Cook	3
Bradleyville	0878	Taney	White	36	46	92	53		C		7A		3		Elmer C. Huhhard	3
Brookfield	0980	Linn	Grand	39	47	93	05	767	C	8A	8A	7	7		G. F. Breen	2 3 5
Browning 3 mi. NE	1003	Linn	Grand	40	03	93	06		C		7P		5		Herman F. Kille	3
Brunswick	1037	Chariton	Grand	39	26	93	08	652	C	7A	7A	67	69		O. K. Benecke	2 3 5 7
Buffalo	1087	Dallas	Osage	37	38	93	05		C		8A		17		L. H. Howerton	3
Bunker	1101	Reynolds	Black	37	30	91	15		C		7A		4		C. D. Highley	3
Burlington Junction	1141	Nodaway	Missouri	40	26	95	04		C		7A				U. S. Reavis	3
Butler	1145	Bates	Osage	38	16	94	20	865	C	6P	6P	2	7		Harley W. Johnson	2 3 5
Camdenton	1212	Pulaski	Osage	38	03	92	47	940	C	4P	4P	2	2		Mo. Conserv. Com.	2 3 5
Campbell	1221	Dunklin	St. Francis	36	29	90	04	314	C	5P	5P	22	22		Ruth Christian	2 3 5
Canton Lock & Dam 20	1275	Lewis	Mississippi	40	08	91	31	488	C	7P	7A	10	18		Lockmaster	2 3 5
Cap Au Gris Lock & Dam 25	1283	Lincoln	Mississippi	39	00	90	41		E		7A		2		U.S. Engineers	3 4
Cape Girardeau Mo. State	1291	Cape Girardeau	Mississippi	37	18	89	32	347	C	5P	5P	3	3		State Teachers Col.	2 3 5
Cape Girardeau	1296	Cape Girardeau	Mississippi	37	18	89	32		C		7A		48		Lee L. Alhert	3 7
Caplinger Mills	1304	Cedar	Osage	37	48	93	49		C	6P	6P		22		S. E. Price	2 3 5
Carrollton	1340	Carroll	Missouri	39	22	93	30	754	C	6P	6P	2	2		Harold E. Finley	2 3 5
Carthage	1356	Jasper	Spring	37	11	94	17	962	C	6P	6P	14	24		Carthage W&E Plant	2 3 5
Caruthersville	1364	Pemiscot	Mississippi	36	17	89	40	265	C	5P	7A	52	56		Victor T. Malloure	2 3 5 7
Cassville Ranger Sta	1383	Barry	White	36	41	93	52		C		8A		8		J. Alice Quillinan	3 4
Centerville	1467	Reynolds	Black	37	26	90	57		C		7A		3		Corda Jane Harrison	3
Centerville Ranger Sta	1472	Reynolds	Black	37	26	90	57		C		8A		12		U.S. Forest Service	3
Centralia	1482	Boone	Mississippi	39	12	92	08		C		8A		12		Earl W. Seymour	3
Chadwick	1490	Christian	White	36	56	93	03		C		7A		2		Sylvia Fletcher	3
Chillicothe 2 mi. S	1580	Livingston	Grand	39	45	93	33	771	C		7A		33		H. O. Dupy	3 7
Chillicothe AP CAA	1585	Livingston	Grand	39	47	93	30		C	MID	MID	39	42		U.S.Airway Com.Sta.	2 3 5
Clarksville Lock & Dam 24	1640	Pike	Mississippi	39	22	90	55		E						U.S. Engineers	3 4
Clearwater Dam Site	1674	Wayne	Black	37	08	90	47	648	C	4P	7A		8		U.S. Engineers	2 3 4 5
Clifton City	1704	Cooper	Missouri	38	45	93	02		C		7A				F. S. Needy	3
Clinton	1711	Henry	Osage	38	22	93	46	786	C	MID	MID	55	61		U.S. Weather Bureau	2 3 4 5
Columbia AP WBAS	1790	Boone	Missouri	38	58	92	22		C	MID	MID		8		U.S. Weather Bureau	
Columbia WBO	1795	Boone	Missouri	38	57	92	20	740	C	MID	MID	58	58		U.S. Weather Bureau	2 3 4 5
Columbia Univ of Mo.	1800	Boone	Missouri	38	59	92	28		C	5P	5P		4	4	Robert E. Lee	2 3 4 5
Conception	1822	Nodaway	Missouri	40	14	94	40	1108	C	5P	5P	59	64		Fr. Adelheim Hess	2 3 5
Concordia	1837	Lafayette	Missouri	38	59	93	34	783	C		7A		31		Lloyd Beissenherz	3
Cook Station	1870	Crawford	Meramec	37	48	91	27		C		7A		4		Thos. J. Gorman	3
Crane Mountain	1980	Iron	St. Francis	37	27	90	38		C		9A		4		Roy E. Thomlison	3
Crocker	2004	Pulaski	Osage	37	59	92	15		C		6P		17		Charles Iden	3
Crystal City	2031	Jefferson	Mississippi	38	13	90	23	420	C	5P	5P	14	14		Richard K. Ragland	2 3 5
Cuba	2043	Crawford	Meramec	38	04	91	24		C		7A		11		Rehm E. Thielecke	3
Deering	2156	Pemiscot	St. Francis	36	12	89	52		C		7A		6		Thomas N. Wood	3
De Sota	2220	Jefferson	Mississippi	38	09	90	34		C		7P		4		Roy E. Dewey	3
Dexter	2235	Stoddard	St. Francis	36	47	89	58		C		6A		24		J. L. Jackson	3
Doniphan	2289	Ripley	Black	36	37	90	49	344	C	6P	6P	44	44		Boyce Lackey	2 3 5
Doniphan 2 mi.W	2294	Ripley	Black	36	37	90	51		C		7A		3		Geo Baumgardner	3 7
Dorn	2302	Ozark	White	36	46	92	13		C				8		Alta M. Deupree	3 4
Downing	2318	Schuyler	Mississippi	40	29	92	20		C		5P		7		Edward L. Beeler	3 4
East End	2406	Iron	Meramec	37	41	91	02		C		7A		4		C. O. Smith	3
Edgerton	2474	Platt	Missouri	39	30	94	37	856	C	7A	7A	28	45		Leroy H. Mindrup	2 3 5
Edina	2482	Knox	Mississippi	40	10	92	10		C		7A		19		Paul D. Pettit	3
Eldon	2503	Miller	Missouri	38	20	92	35	934	C	5P	5P	53	49		Arthur Rothwell	2 3 5
Eldorado Springs	2511	Cedar	Osage	37	52	94	01		C		6P		18		Clyde J. Snodgrass	3
Elijah	2519	Ozark	White	36	36	92	09		C		7A		3		Loyd Price	3
Ellington	2547	Reynolds	Black	37	14	90	59		C		7A		8		S. Phronia Sanders	3 4
Ellsinore	2563	Carter	Black	36	56	90	45	-	C		5P		4		Clinton Sheets	3
Elsherry	2591	Lincoln	Mississippi	39	10	90	47	449	C	8A	8A	17	17		Soil.Conserv. Serv.	2 3 5
Eminence	2617	Shannon	Black	37	11	91	23	1250	C				7		Thomas J. Chilton	3 4
Fairfax	2729	Atchison	Tarkio	40	20	95	24		C						Dillard A. Price	3
Farmington	2809	St. Francois	St. Francis	37	47	90	26	896	C	7P	6A	37	51		F. M. Karsch	2 3 4 5
Fayette	2823	Howard	Missouri	39	09	92	41	760	C	6P	6P	68	65		Irvin E. Schnell	2 3 5

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STATION	INDEX NO.	COUNTY	DRAINAGE	LAT. °	LAT. '	LONG. °	LONG. '	ELEV. (FT.)	TIME OF OBSERVATION			YEARS OF RECORD			OBSERVER	REFER TO TABLES
									ZONE	TEMP.	PRECIP.	TEMP.	PRECIP.	EVAP.		
Fisk	2881	Butler	St. Francis	36	47	90	12		C		7A		18		Charles E. Hargrove	3 7
Forsyth	2975	Taney	White	36	41	93	06		C		7A		8		Otto Kenyon	3 4 7
Fredericktown	3038	Madison	St. Francis	37	33	90	17		C		7A		23		R. H. Leslie	3
Fremont Tower	3052	Carter	Black	37	08	91	20		C		8A				Thelman Palmer	3
Fulton	3079	Callaway	Missouri	38	51	91	57	818	C	8A	8A	60	56		Frank E. Hillgartner	2 3 4 5
Galena	3094	Stone	White	36	48	93	28		C		7A		36		Maynard L. Stewart	3
Gallatin	3102	Daviess	Grand	39	55	93	57		C		7A		46		S. C. Poe	3 7
Gerald	3178	Franklin	Meramec	38	24	91	20		C		6P		7		Edwin H. Vermer	3
Granby	3341	Newton	White	36	55	94	15		C		7A		4		Mildred B. Hatcher	3
Grant City	3369	Worth	Grand	40	29	94	25	1134	C	6P	6P	44	56		J. Homer Korn	2 3 4 5
Greenville 1 mi. SW	3451	Wayne	St. Francis	37	06	90	27	415	C	5P	7A	39	41		C. L. Ruhottom	2 3 5
Hailey	3537	Barry	White	36	42	93	43		C		6P		27		William Madison	3
Hamden	3565	Chariton	Chariton	39	36	92	47		C				8		Mary M. White	3 4
Hannibal	3596	Marion	Mississippi	39	42	91	20	759	C		7A		6		P. B. Stelmann	3 7
Hannibal Waterworks	3601	Marion	Mississippi	39	41	91	20	759	C	MID	MID	56	64		Hannihal Water Dept.	2 3 5
Harris	3641	Sullivan	Grand	40	18	93	22		C				8		John E. Miller	3 4
Harrisonville	3649	Cass	Osage	38	39	94	20	904	C	7A	7A	70	73		Jeffrey B. Patterson	2 3 5
Hermann	3793	Gasconade	Missouri	38	42	91	25		C		7A		74		Josepb G. Rebsamen	3 7
High Lookout	3845	Shannon	Black	36	53	91	27		C		6P		4		John Scoville	3
Hornersville	3999	Dunklin	St. Francis	36	03	90	06		C				8		Sallie E. Perkins	3 4
Houston	4021	Texas	Gasconade	37	20	91	53		C				8		Austin McKinney	3 4
Jackson	4226	Cape Girardeau	Mississippi	37	23	89	40	428	C	5P	5P	57	58		Danny Siebert	2 3 5
Jeff City Radio KWOS	4271	Cole	Missouri	38	35	92	12	557	C	6P	7A	58	66		KWOS Radio Farm	2 3 5
Jefferson City	4276	Cole	Missouri	38	34	92	11		C		7P		7		Robert R. Henderson	3 4
Jerome	4291	Phelps	Gasconade	37	56	91	59		C		7A		46		G. A. Brinkley	3 7
Jewett	4299	Madison	St. Francis	37	23	90	29		C				8		Fred Goelkel	3 4
Joplin AP CAA	4315	Jasper	Neosbo	37	10	94	30	988	C	MID	MID	26	43		U.S. Airway Com. Sta	2 3 5
Kaboka	4349	Clark	Mississippi	40	25	91	43		C		8A		19		Wesley E. Hayden	3
Kansas City AP WBAS	4359	Jackson	Missouri	39	07	94	35	741	C	MID	MID	59	59		U.S. Weather Bureau	2 3 4 5 7
K. C. Mo. St. John&Elmwood	4364	Jackson	Missouri	39	06	94	32		C		MID		6		Lester Applegate	3 4
K. C. Mo. 75th&Holmes	4369	Jackson	Missouri	39	00	94	35		C		MID		6		Lester Applegate	3 4
K. C. Mo. 37th&Raytown Rd	4374	Jackson	Missouri	39	03	94	30		C		MID		6		Lester Applegate	3 4
Kansas City Univ. of K. C.	4379	Jackson	Missouri	39	02	94	35	908	C	6P	6P	10	10		Univ. of Kansas City	2 3 4 5
Kidder	4481	Caldwell	Grand	39	47	94	06	1020	C	7P	7A	56	60		Geraldine Terry	2 3 5
King City	4505	Gentry	Missouri	40	03	94	31	1095	C		6P		40		John M. Martin	3
Kirksville	4544	Adair	Mississippi	40	12	92	34	969	C	6P	6P	59	66		Dow Jones	2 3 5
Kirksville AP CAA	4549	Adair	Mississippi	40	06	92	33	966	C	MID	MID	9	9		U.S. Airway Com. Sta	2 3 4 5
Koshkonong	4625	Oregon	Black	36	35	91	39	958	C	6P	7A	47	48		Genevieve T. Smith	2 3 5
La Belle	4637	Lewis	Mississippi	40	07	91	55		C		8A		18		James M. Fishhack	3
Lakeside	4694	Miller	Osage	38	12	92	37	595	C	7A	7A	17	17	15	W. S. Frame	2 3 4 5 6 7
Lamar	4705	Barton	Neosho	37	30	94	16	980	C	7A	7A	60	67		Marie Mann	2 3 5
Lampe Forest Service	4727	Stone	White	36	34	93	26		C		7A		7		Orley F. Scott	3
Lampe 4 mi. NNE	4732	Stone	White	36	38	93	24		C						Mrs. Addis O. Rogers	3 4
Lathrop 3 mi. SW	4773	Clinton	Grand	39	32	94	22	1080	C	6P	6P	1	1		E. L. Fisher	2 3 5
Lehanon	4825	Laclede	Osage	37	42	92	45	1265	C	7A	7A	60	61		Rosa E. Montelius	2 3 4 5
Lecoma 3 mi. N	4828	Dent	Meramec	37	49	91	44	1140	C						R. W. McCracken	3 4
Leeper	4844	Wayne	Black	37	04	90	42		C		7A		23		Orville A. Roberts	3 7
Lexington	4904	Lafayette	Missouri	39	11	93	53	688	C	7A	7A	63	64		William H. Cullon	2 3 5
Licking 4 mi. N	4919	Texas	Gasconade	37	29	91	52	1170	C	6P	7A	11	11		Fern E. Austin	2 3 5
Linneus	4978	Linn	Grand	39	50	93	12		C		5P		7		Merle Wade	3 4
Livonia	5014	Putnam	Chariton	40	29	92	42		C				8		Icel M. Tade	3 4
Lockwood	5027	Dade	Osage	37	23	93	57	1078	C	6P	7A	42	52		Huhert A. Nieman	2 3 4 5
Louisiana Starks Nur	5093	Pike	Mississippi	39	26	91	02	469	C	6P	6P	54	67		Stark Bros.Nurseries	2 3 5
Louisiana	5098	Pike	Mississippi	39	27	91	03		C		7A		5		Crewdson W.Dillender	3
Lucerne	5121	Putnam	Grand	40	27	93	18		C		9A		7		D. A. Browning	3 4
Macedonia Lookout	5164	Ripley	Black	36	45	90	54		C		7A		4		Roy C. Robinett	3
Macon	5175	Macon	Chariton	39	45	92	28	875	C	7A	7A	49	55		John W. Atwell	2 3 4 5
Madison	5183	Monroe	Mississippi	39	28	92	12		C		8A		14		Enos Wood	3
Malden	5205	Dunklin	St. Francis	36	34	89	57		C				7		Rollie H. Kennard	3 4
Mansfield	5227	Wright	White	37	06	92	35		C		7A		3		Henry O. Brown	3
Marhle Hill	5253	Bollinger	Mississippi	37	18	89	59	532	C	5P	5P	53	55		R. A. DeWitt	2 3 5
Marshall	5293	Saline	Missouri	39	07	93	11	779	C			61	58		Thomas A. Reid	2 3 5
Marshall AP CAA	5298	Saline	Missouri	39	06	93	12		C	MID	MID		8		U.S. Airway Com. Sta	2 3 4 5
Marsbfield	5307	Wehster	White	37	20	92	54	1484	C	5P	5P	3	7		Sbo-Me Power Co.	2 3 5
Martinshurg	5319	Audrian	Missouri	39	06	91	41		C		7A		4		H. Freese	3
Maryville	5340	Nodaway	Missouri	40	21	94	52	1169	C	6P	6P	58	54		R. B. Montgomery	2 3 5
Maryville 6 mi. NNW	5345	Nodaway	Missouri	40	25	94	53	1160	C						Earl W. Trueblood	3 4
McCredie	5410	Callaway	Missouri	38	58	91	58		C				8		Lelia B. Craig	3 4
McCredie Exp Station	5415	Callaway	Missouri	38	57	91	54		C		MID		8		U. S. Soil Conserv.	3 4
Memphis	5492	Scotland	Mississippi	40	27	92	10	787	C	7A	7A	[illegible]	18		John W. Alexander	2 3 5
Mercer 6 mi. NW	5519	Mercer	Grand	40	33	93	35		C		7A				Oscar L. Hartley	3
Mexico	5541	Audrain	Mississippi	39	10	91	53	800	C	7A	7A	59	70		D. N. Woods	2 3 5
Middletown	5565	Montgomery	Mississippi	39	07	91	26		C						Mary M. Angel	3 4
Milan	5578	Sullivan	Grand	40	12	93	07	-	C		7A		25		Charles E. Smitb	3
Moherly AP 4 mi. NE	5671	Randolpb	Mississippi	39	28	92	25	860	C	8A	8A	11	11		Robert J. Platter	2 3 4 5
Monett	5700	Barry	Neosho	36	53	93	55	1317	C	7A	7A	1	1		M. U. Fruit Exp. Sta	2 3 5
Monroe City	5708	Monroe	Mississippi	39	35	91	44		C		SS		25		J. S. Conway	3
Mora	5754	Benton	Missouri	38	32	93	13		C				8		Emma M. Meyer	3 4
Morehouse	5762	New Madrid	Mississippi	36	51	89	41		C		4P		37		J. A. Spence	3
Moselle	5816	Franklin	Meramec	38	23	90	54		C		8A		3		A. Lampert	3
Mountain Grove	5834	Wright	Gasconade	37	09	92	16	1463	C	5P	8A	47	1		M. U. Fruit Exp. Sta	2 3 4 5
Mount Vernon	5861	Lawrence	Neosho	37	06	93	49	1174	C	5P	7A	36	48		John C. Heying	2 3 5
Neosbo	5976	Newton	Neosho	36	52	94	22	1011	C	5P	5P	61	65		U.S. Fisheries Sta.	2 3 5
Nevada	5987	Vernon	Osage	37	50	94	21	862	C	6P	6P	55	56		Henry Kraft	2 3 4 5
New Florence AP 1 mi. SE	6007	Montgomery	Missouri	38	53	91	26	885	C	MID	MID	5	6		U.S.Airway Com. Sta.	2 3 4 5

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STATION	INDEX NO.	COUNTY	DRAINAGE	LAT. °	LAT. ′	LONG. °	LONG. ′	ELEV. (FT.)	TIME OF OBSERVATION ZONE	TIME OF OBSERVATION TEMP.	TIME OF OBSERVATION PRECIP.	YEARS OF RECORD TEMP.	YEARS OF RECORD PRECIP.	YEARS OF RECORD EVAP.	OBSERVER	REFER TO TABLES
New Madrid	6040	New Madrid	Mississippi	36	35	89	31		C		6A		54		Wess Hensley	3 7
Oates Tower	6263	Reynolds	Black	37	32	91	03		C		7A		3		Ethel Sue Adams	3
Odessa	6269	Lafayette	Missouri	39	00	93	57		C		7A				William E. Dougherty	3
Oregon	6357	Holt	Missouri	39	59	95	09	1093	C	MID	MID	92	92		James M. Curry	2 3 5
Osceola	6407	St. Clair	Osage	38	05	93	42		C		7A		7		Sam H. Simmons	3 4 7
Owensville	6438	Gasconade	Gasconade	38	21	91	30		C		8A		5		A. C. Poppenhouse	3 4
Ozark	6452	Christian	White	37	01	93	13		C		7A		3		William L. Reed	3
Ozark Beach	6460	Taney	White	36	40	93	07	700	C	8A	8A	8	23		Empire Dist. Elec. Co	2 3 5
Pacific	6468	Franklin	Meramec	38	29	90	44		C		7A		59		Arthur D. Lewis	3
Palmyra	6493	Marion	Mississippi	39	48	91	31		C		8A		42		Dan Hamlin House	3
Paris	6509	Monroe	Mississippi	39	29	92	00		C		8A		18		J. W. Reed	3
Parma	6532	New Madrid	St. Francis	36	37	89	48		C		7A		24		Laura E. Morgan	3
Pattonsburg	6563	Daviess	Grand	40	03	94	09		C				8		Wade D. Moody	3 4
Perry	6633	Ralls	Mississippi	39	25	91	41		C		5P		18		Guy R. Milton	3 4
Perryville	6641	Perry	Mississippi	37	44	89	51		C		6P		7		Werner T. Weber	3
Philadelphia	6667	Marion	Mississippi	39	50	91	44		C		4P		15		Lynn S. Feaster	3
Pierce City	6678	Lawrence	Neosho	36	57	94	00		C		5P		4		John P. Davis	3
Pineview Lookout	6700	Barry	White	36	42	93	37		C		8A				Charles M. Miller	3
Pleasant Hill	6748	Cass	Osage	38	48	94	17		C		6A		10		Dean T. Knorpp	3
Polo	6775	Caldwell	Missouri	39	33	94	03	1000	C	7A	7A	2	2		F. B. Albright	2 3 4 5
Poplar Bluff	6791	Butler	Black	36	45	90	24	339	C	7A	7A	43	44		Osmon M. Richardson	2 3 5
Potosi	6826	Washington	Mississippi	37	55	90	47		C				8		Arthur M. Riehl	3 4
Puxico	6934	Stottard	St. Francis	36	37	90	09		C		7A		3		Treval Pearman	3
Qulin	6970	Butler	St. Francis	36	36	90	14		C		7A		3		Torrence J. Johns	3
Reynolds	7094	Reynolds	Black	37	24	91	05		C		7A		4		Effie V. Hill	3
Richwoods	7122	Washington	Meramec	38	09	90	50		C		7A		5		Elma M. DeClue	3 4
Ridgeway	7130	Harrison	Grand	40	22	93	57		C				6		Keith Jackson	3 4
Roby	7214	Texas	Gasconade	37	30	92	08		C		6P		6		Roy E. Daniels	3
Rogersville	7255	Webster	White	37	07	93	03		C						Gladys C. Shockley	3 4
Rolla School of Mines	7263	Phelps	Gasconade	37	57	91	46	1202	C	9A	9A	48	64		Rolla School of Mines	2 3 4 5
Rolla 5 mi. SE	7264	Phelps	Meramec	37	54	91	43	1100	C						Walter W. Snelson	3 4
Rolla Missouri 3 mi. W.	7265	Phelps	Gasconade	37	57	91	50	865	C						Leslie H. Underwood	3 4
Rolla 4 mi. SE	7266	Phelps	Meramec	37	56	91	43	1040	C						Mrs. Hallen P. Light	3 4
Rolla 7 mi. S	7267	Phelps	Meramec	37	51	91	46	970	C						Gertrude Ponzer	3 4
Round Spring	7309	Shannon	Black	37	18	91	25		C		7A		4		C. E. Jones	3
Saint Charles	7397	St. Charles	Missouri	38	47	90	29	520	C	6P	7A	60	70		Myrtle Briegel	2 3 5 7
Saint James 3 mi. NW	7424	Phelps	Meramec	38	01	91	40	1005	C						William S. Jones	3 4
Saint Joseph AP WBAS	7440	Buchanan	Missouri	39	46	94	55	957	C		6A	38	76		U.S. Weather Bureau	2 3 4 5 7
Saint Louis AP WBAS	7455	Saint Louis	Missouri	38	45	90	23	556	C	MID	MID	11	17		U.S. Weather Bureau	2 3 4 5
Saint Louis WBO	7460	Saint Louis City	Mississippi	38	38	90	12	465	C		7A	111	111		U.S. Weather Bureau	2 3 4 5 7
Saint Louis Univ.	7465	Saint Louis City	Mississippi	38	38	90	14	578	C	MID	MID	36	36		St. Louis University	2 3 5
Saint Louis Wash. Univ.	7470	Saint Louis City	Mississippi	38	39	90	18		E	8A	8A		8	10	John Hopp, R.L. Brust	2 3 4 5 6
Saint Thomas	7497	Saint Louis City	Osage	38	22	92	13		C		7A		7		John Morff	3 7
Salem	7506	Dent	Meramec	37	38	91	33	1206	C	7A	7A	44	47		E. E. Martin	2 3 4 5
Salisbury	7514	Chariton	Chariton	39	26	92	48	723	C	6P	6P	2	2		David H. Robertson	2 3 5
Saverton Lock & Dam 22	7578	Ralls	Mississippi	39	38	91	16	472	C	7P	7A	10	10		Lockmaster	2 3 5
Sedalia	7632	Pettis	Missouri	38	42	93	14	910	C	5P	7A	35	37		Dr. J. E. Cannaday	2 3 5
Seligman	7645	Barry	Neosho	36	31	93	56	1542	C	7P	7A	47	45		Floyd E. Fawver	2 3 5
Seneca	7656	Newton	Neosho	36	50	94	57		C				3		Hosea N. Harrison	3 4
Seymour 4 mi. NNE	7674	Webster	White	37	12	92	45	1640	C	7A	7A	42	42		Roy A. Harnden	2 3 5
Shelbina	7720	Shelby	Mississippi	39	42	92	03	779	C	6P	6P	7	55		Julian C. Weston	2 3 5
Shelbyville	7728	Shelby	Mississippi	39	48	92	02		C		5P		17		Emmett L. Goe	3
Shell Knob	7740	Barry	White	36	37	93	35		C		8A		3		Lionel Jung	3
Sikeston	7770	Scott	Mississippi	36	53	89	35	318	C	7A	7A	41	51		Lucy W. Humphreys	2 3 5
Siloam Springs	7780	Howell	White	36	48	92	04		C		7A		4		Bess M. Byers	3
Skidmore	7813	Nodaway	Missouri	40	17	95	05		C				8		Nina B. Geyer	3 4
Spring City	7967	Newton	Neosho	37	00	94	32		C				8		Gladys J. Cameron	3 4
Springfield AP WBAS 4 mi.NW	7976	Greene	Osage	37	14	93	23	1265	C	MID	MID	60	60		U.S. Weather Bureau	2 3 4 5
Stanberry	8003	Gentry	Grand	40	12	94	33		C				6		R. Trueman Wagers	3 4
Steelville	8043	Crawford	Meramec	37	59	91	22		C		7A		7		William Diehl	3 4
Steffenville	8051	Lewis	Mississippi	39	58	91	53	650	C	6P	6P	50	55		Fannie V. Gross	2 3 4 5
Stover	8112	Morgan	Missouri	38	26	93	02		C		7A		24		H. Kyle Vickery	3
Sugar Camp Lookout	8160	Barry	White	36	32	93	50		C		8A				Ralph L. Richardson	3
Sullivan 3 mi. NE	8171	Washington	Meramec	38	13	91	06		C		7A		7		George J. Hussman	3 4 7
Summersville	8184	Texas	Black	37	11	91	40		C		7A		4		Roy W. Wall	3
Sweet Springs	8223	Saline	Missouri	38	58	93	25	700	C	6P	6P	7	7		H. F. Nelson	2 3 5
Tarkio AP CAA	8289	Atchison	Missouri	40	27	95	22	916	C	MID	MID	45	54		U.S. Airway Com. Sta.	2 3 4 5
Tecumseh	8313	Ozark	White	36	35	92	17		C		7A		3		Tom Chandler	3
Topaz	8412	Douglas	White	36	56	92	12		C		8A		4		C. M. Loyd	3
Trenton	8444	Grundy	Grand	40	05	93	37	822	C		7A	52	53		W. H. Estes	2 3 4 5 7
Troy	8456	Lincoln	Mississippi	38	59	90	59		C		7A		17		Robert L. Nichols	3
Union 2 mi. SE	8515	Franklin	Meramec	38	27	91	00	520	C	6P	7A	10	31		Cornelius Sieges	2 3 5 7
Unionville	8523	Putnam	Chariton	40	38	93	00	1062	C	6A	6A	55	55		George D. Choate	2 3 5
Valley Park	8561	Saint Louis	Meramec	38	33	90	30		C		7A		31		Nathaniel W. Henlon	3 7
Van Buren	8569	Carter	Black	36	59	91	01		C		7A		11		Merle A. Smith	3
Vandalia	8577	Audrain	Mississippi	39	19	91	30	766	C	5P	5P	4	9		Naomi K. Stoutz	2 3 5
Vanzant	8585	Douglas	White	36	56	92	16		C		7A		4		C. D. Smith	3
Vichy 2 mi. SE	8612	Maries	Meramec	38	05	91	44	1040	C						Virginia F. Huffman	3 4
Vichy AP CAA 2 mi. NW	8614	Maries	Gasconade	38	08	91	46	1125	C	MID	MID	12	13		U.S. Airway Com. Sta.	2 3 5
Villa Ridge	8630	Franklin	Missouri	38	29	90	55		C				8		Vincent Hellman	3 4
Waco	8664	Jasper	Spring	37	15	94	36		C		7A		2		Lester O. Sigars	3
Wappapello Dam	8700	Butler	St. Francis	36	55	90	17	475	C	8A	8A	9	9		U.S. Engineer Office	2 3 4 5
Warrensburg Central T C	8712	Johnson	Missouri	38	46	93	44	878	C	5P	5P	61	68		Central Teachers Col.	2 3 5
Warrensburg 5 mi. E	8717	Johnson	Missouri	38	45	93	39		C				8		Leah P. Prussing	3
Warrenton	8725	Warren	Mississippi	38	49	91	08	880	C	5P	5P	66	58		W. T. Zimmerman	2 3 4 5

STATION INDEX — Continued

STATION	INDEX NO.	COUNTY	DRAINAGE	LAT. °	LAT. '	LONG. °	LONG. '	ELEV. (FT.)	TIME OF OBSERVATION			YEARS OF RECORD			OBSERVER	REFER TO TABLES
									ZONE	TEMP.	PRECIP.	TEMP.	PRECIP.	EVAP.		
Warsaw No. 1	8733	Benton	Osage	38	15	93	21	687	C	5P	7A		53		Dora Johnson	2 3 5
Warsaw No. 2	8738	Benton	Osage	38	15	93	21		C		8A		31		Ruth A. Pierce	3 7
Washington	8746	Franklin	Missouri	38	31	91	00		C				8		Joe Ludewig	3 4
Wasola	8754	Ozark	White	36	48	92	34	1294	C	7P	7A	7	8		A. W. Pinckney	2 3 4 5
Waverly	8768	Lafayette	Missouri	39	13	93	31		C		8A		33		Harry McKim	3 7
Waynesville 2 mi. E	8777	Pulaski	Gasconade	37	50	92	11	805	C	7P	7P	2	2		Fred M. Sanderson	3
Webster Groves	8791	Saint Louis	Mississippi	38	35	90	22	507	C	7P	7P	2	3		R. W. Lawrie	2 3 5
Weingarten	8799	Saint Genevieve	Mississippi	37	53	90	13	833	C	5P	5P	7	8		William J. Miller	2 3 5
West Plains	8880	Howell	Black	36	44	91	51	1005	C	MID	MID	11	11		U.S. Weather Bureau	2 3 4 5
Williamsville	8984	Wayne	Black	36	58	90	33		C		7A		24		George W. Julian	3
Willow Springs	8995	Howell	White	36	59	91	59	1238	C	6P	7A	7	41		Allen Frazee	2 3 5
Willow Springs Forest S	9000	Howell	Black	36	59	91	59		C				6		U.S. Forest Service	3 4
Windsor 3 mi. NW	9032	Henry	Osage	38	34	93	33		C		6A				Logan Sutherland	3
Zalma	9178	Bollinger	Mississippi	37	09	90	04		C		7A		11		Louis A. Dobbs	3

REFERENCE NOTES

The four digit identification numbers in the index number column of the Station Index are assigned on a State basis. There will be no duplication of numbers within a state.

Stations appearing in the Index, but for which data are not listed in the tables, are either missing or received too late for inclusion in this issue.

Delayed data and corrections will be carried only in the June and December issues of this bulletin.

When hourly precipitation is accumulated over a period of three or more calendar days, with unknown hourly or daily distribution, the first and last days are shown in Table 4.

When hourly precipitation is missing for several days, only the first and last days are shown in Table 4.

Unless otherwise indicated, dimensional units used in this bulletin are: temperature in °F., precipitation and evaporation in inches, river stages in feet, and wind movement in miles.

Data in Tables 3, 5 and 6 are for the 24 hours ending at time of observation. See the Station Index for observation time.

-	No record.
+	And also on later dates.
*	Amount included in following measurement, time distribution unknown.
//	Gage is equipped with wind shield.
6	Precipitation measured at 6-hourly intervals, no recording gage.
B	Adjusted to a full month.
m	One or more days of record missing. See Table 5 for detailed daily record.
r	Station equipped with recording gage only. All amounts in Table 3 are for the non-recording gages, except for stations with this reference.
T	Trace, an amount too small to measure.
z	Hourly amounts from recording gage at the same site may be found in Table 4.
SS	This entry in time of observation column in Station Index means observation made near sunset.

Table 4 data formerly published in Missouri River, Upper Mississippi, Lower Mississippi West Gulf, and South Pacific Hydrologic Bulletins. Amounts in this table are from recording gages. Traces are not shown.

Subscription Price: 15¢ per copy; $1.50 a year. (Yearly subscription includes Annual Summary). Correspondence regarding subscriptions should be addressed to the Weather Records Processing Center, 811 Fidelity Building, Kansas City, Missouri.

W. B. O. --- Washington, D. C. --- 1-14-49 --- 1400

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CLIMATOLOGICAL DATA

MISSOURI

MAR 19 1949

NOVEMBER 1948
Volume LII No. 11

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WASHINGTON: 1949

MISSOURI - NOVEMBER, 1948

H. F. Wahlgren, Section Director - Saint Louis

GENERAL SUMMARY

The past month averaged both warmer and wetter than normal, for the State as a whole, and it was a favorable month for seasonal outdoor work, as a rule.

Except for a few stations in the southwestern quarter of the State, temperatures averaged above normal for November at all stations. Averages by divisions with departures from normal were: Northern, 44.3°, +2.1°; Southwestern, 47.0°, +1.1°; Southeastern, 48.1°, +1.9°; for the State, 46.5°, +2.1°. There were no unusual extremes of temperature recorded anywhere in the State. The 4th, 5th, and 15th were generally the warmest days during the month while the 22d, 23d and 29th were the coldest days, as a rule. Compared to last November the current month averaged 5.5° warmer than that month.

The precipitation during the month was mostly in the form of rain, snowfall being of little consequence, except at a few widely separated stations. The distribution of the month's precipitation was very irregular, ranging from a total of 9.18 inches at Parma to only 0.70 inch at Albany. The Southeastern Division received the greatest precipitation average during the month, 5.03 inches, or 1.77 inches more than normal. The averages, with departure from normal, for the Northern and Southwestern Divisions were 2.45 inches, +0.23 inch and 3.40 inches, +0.74 inch, respectively. The State average was 3.64 inches, or 0.93 inch more than normal. The frequency was greatest over the Southeastern Division where measurable precipitation occurred on an average of 11 days during November. The average frequency for the entire State was 9 days, or 3 days more than normal. Heaviest precipitation occurred on the 2d and 5th when amounts of from more than two to over four inches occurred locally in the central portion of the State. Heaviest amounts of snowfall occurred in Barry, Shannon and Oregon counties on the 28th, when up to 3 inches fell in the first named county. The snowfall melted rapidly however and the ground was not covered for more than a day or two at any place. Many stations in the State reported none to only a Trace of snow during November.

There were no floods in any of the larger streams or rivers of the State during November.

Generally high straight-line winds over all of the State on the afternoon of the 16th resulted in minor damage to trees, signs, wires, plate glass windows and the steeple of a church in the St. Louis area. The same day a plate glass window was blown out of a store at Martinsburg and one person was slightly injured by flying glass. Between 1 p.m. and 4 p.m. on the 19th, high straight-line winds resulted in minor damage to signs, roofs, and a few farm fences in St. Louis City and in St. Louis County. During the night of the 27th and forenoon of the 28th high wind, accompanied by a 2.5 inch snowstorm, disrupted power and light service for about six hours at Cassville and vicinity.

Miscellaneous phenomena reported were as follows: Heavy fogs on 1st, 2d, 3d, 13th, 18th, 19th, 23d, 24th, 26th, 27th, 29th. Glaze on 19th and 28th. Light hail on 4th near Browning; on 18th at Kansas City Airport, Bolivar, and Clinton; on 19th at Kirksville, Maryville, and Warrenton. Moderate hail on 1st at Pierce City; on 4th at Cassville; on 18th at Oregon and University of Kansas City with some window panes broken and a floral shop damaged at the latter place. Sleet on 4th, 9th, 19th, and 28th.

The mild open weather was quite favorable for most outdoor work during much of the month and a large percentage of the unusually large corn and cotton crops was harvested and stored, although rather frequent rains in the southeast portion interfered with cotton picking. Considerable fall plowing was accomplished during the month over most of the State. The warm weather and generally adequate precipitation improved the condition of pastures and fall seedings of small grains and alfalfa and these made very good growth and progress during the month, except in the extreme southwestern counties where more moisture was needed to promote growth of the winter wheat crop and other small grains that had been seriously retarded by persistent dry weather in that area. With the approach of the coming winter the State was in better condition, as far as stores of feed and fuel supplies were concerned, than for many years.-MRW

TEMPERATURE

The monthly mean for the State, 105 stations reporting, was 46.5°, or 2.1° warmer than the 61-year November average. The highest monthly mean was 52.7° at Caruthersville, and the lowest was 41.4° at Tarkio. The highest reported was 87° at Caruthersville on the 3rd and the lowest was 10° at Monett on the 29th.

PRECIPITATION

The average for the State, based on reports from 104 stations, was 3.64 inches, or 0.93 inch more than the 61-year November average. The greatest monthly amount was 9.18 inches at Parma, and the least was 0.70 inch at Albany. The greatest amount reported an an observational day was 4.55 inches at Jefferson City on the 2nd. The average number of days with 0.01 inch, or more, was 9.

Snowfall averaged 0.1 inch, or 0.8 inch less than the 59-year November average. The greatest monthly snowfall was 3.0 inches at Seligman and Summersville.

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ACKNOWLEDGMENTS

In addition to the climatological data from some 6,000 Weather Bureau and cooperative weather stations, this bulletin series contains records from Hydroclimatic Network Stations which were formerly reproduced in the Hydrologic Bulletin Series. The Hydroclimatic Network is a nationwide net of rain gages--mostly of the recording type which produce continuous records of precipitation. It was established in 1939 at the request of the Corps of Engineers, Department of the Army, to supplement existing precipitation stations in order to provide records of rainfall intensity which were essential to the planning of flood control and related works by the Corps of Engineers. This Network, now numbering about 2,000 recording, and 1,000 non-recording rain gages, has been maintained by the Weather Bureau through working funds transferred annually to the Weather Bureau by the Corps of Engineers. These transfers averaged about $250,000 per year between 1940 and 1944, and nearly $375,000 since that date. For the years 1940-42, the Department of Agriculture transferred about $100,000 per year to provide data required in its work, and since 1947 the Bureau of Reclamation has transferred about $25,000 per year to meet the increasing needs of their program in the Western States.

Previous to the introduction of this bulletin series, data from Hydroclimatic Network stations were presented in bulletins (Hydrologic Bulletins) which were issued monthly for each of 8 drainage areas embracing the entire United States, but since the Network was established to meet the internal requirements of the Federal agencies referred to above, no provision was made for public dissemination of the data, distribution being limited to cooperating agencies and to certain public repositories. A list of locations where reference copies of the Hydrologic Bulletin Series are available for inspection may be obtained upon application to Chief, U. S. Weather Bureau, Washington 25, D. C.

Many other records published in this bulletin have been made available through the cooperation of various public offices, private agencies, and individuals as listed in the Station Index.

PRESSURE, WIND, HUMIDITY, SUNSHINE, DEGREE DAYS

STATIONS	SEA LEVEL PRESSURE EXTREMES—INCHES				WIND				RELATIVE HUMIDITY AVERAGES				SUNSHINE	DEGREE DAYS 65° BASE
	HIGHEST	DATE	LOWEST	DATE	AVERAGE SPEED M.P.H.	MAXIMUM SPEED M.P.H.	DIRECTION	DATE	1:30A EST	7:30A EST	1:30P EST	7:30P EST	PERCENT OF POSSIBLE	
Columbia WB City	30.34a	13	29.26a	4	7.5	26	S	4	78a	86a	65a	68a	52	576
Kansas City WB Airport	30.31	13	29.21	4	10.5	38	NW	16	75	80	57	58	49	563
Saint Joseph WB Airport	30.37	30	29.19	4	8.3	33	NW	16	82	86	60	68	42	633
Saint Louis WB City	30.32a	13	29.31a	5	12.5	40	NW	16	76	78	64	67	50	499
Springfield WB Airport	30.31	30	29.27	4	13.2	36	SW	19	79	87	62	69	53	567

a - airport data

TABLE 1
COMPARATIVE DATA

YEAR	TEMPERATURE			PRECIPITATION		
	MEAN	HIGHEST	LOWEST	AVERAGE	AVERAGE SNOWFALL	DAYS WITH .01 OR MORE
1888	41.6	87	15	3.39		7
1889	39.9	76	6	3.52	0.6	7
1890	46.5	80	14	2.38	T	5
1891	39.6	82	-7	4.14		8
1892	40.1	79	9	2.75	1.0	6
1893	40.9	79	-1	1.70	0.3	4
1894	41.0	80	3	1.56	T	4
1895	41.6	82	-4	3.60	3.2	8
1896	42.3	82	-5	2.43	0.2	6
1897	43.4	82	-3	2.63	T	6
1898	39.9	79	-8	2.32	2.3	6
1899	49.5	82	16	2.02	0.2	7
1900	43.7	84	7	2.99	0.2	6
1901	43.6	84	9	1.48	0.3	4
1902	50.1	85	18	3.73	0.4	9
1903	40.9	79	2	1.27	1.1	5
1904	46.3	83	11	0.22	T	2
1905	45.8	83	2	1.87	T	6
1906	42.5	88	-3	3.56	5.0	8
1907	43.8	88	11	2.24	T	4
1908	47.6	87	9	3.90	0.2	8
1909	53.6	87	11	4.32	0.4	8
1910	42.0	83	11	0.35	0.1	3
1911	39.1	83	-3	2.63	1.1	7
1912	45.9	85	12	1.50	0.1	3
1913	51.7	80	11	2.71	T	7
1914	48.6	89	2	0.69	0.1	3
1915	49.5	87	12	2.83	0.1	5
1916	46.9	85	3	2.46	0.1	4
1917	46.1	80	8	1.23	T	3
1918	44.9	85	12	3.26	1.2	6
1919	42.2	78	2	3.57	1.0	6
1920	40.9	82	6	1.06	T	6
1921	45.6	84	10	3.11	0.4	5
1922	47.8	84	15	3.68	T	7
1923	45.1	79	14	2.25	3.0	6
1924	46.7	88	4	1.78	0.5	4
1925	42.8	80	-2	3.05	2.0	6
1926	39.6	78	0	3.01	4.3	7
1927	46.8	89	12	3.66	0.9	7
1928	44.6	79	9	5.02	0.5	10
1929	39.0	78	-8	1.46	2.1	6
1930	45.8	83	8	2.93	T	5
1931	52.2	87	17	5.42	1.4	11
1932	39.5	75	-9	1.87	4.5	5
1933	45.9	83	7	0.93	0.2	4
1934	48.5	84	16	5.71	4.6	10
1935	42.2	82	10	4.16	0.1	10
1936	42.2	79	0	1.89	1.4	3
1937	41.0	90	-7	1.85	4.1	7
1938	45.9	89	2	4.28	1.3	6
1939	43.5	78	12	2.58	0.0	7
1940	42.2	83	-2	3.46	1.2	9
1941	45.5	85	10	2.29	1.9	7
1942	47.9	82	6	4.27	0.8	11
1943	42.7	81	9	0.93	0.4	3
1944	47.0	88	1	2.34	0.2	9
1945	46.3	86	6	1.39	0.2	5
1946	47.0	81	13	6.44	T	10
1947	41.0	73	9	2.65	0.5	11
1948	46.5	87	10	3.64	0.2	9
Period	44.5	90	-9	2.73	0.9	6

See reference notes following Station Index

CLIMATOLOGICAL DATA

Station	Temperature								Precipitation									
							No. of Days						Snow, Sleet, Hail			No. of Days		
	Average	Departure from Normal	Highest	Date	Lowest	Date	Max. 90° or above	Min. 32° or below	Total	Departure from Normal	Greatest Day	Date	Total	Max. Depth on Ground	Date	.01 or more	.25 or more	1.00 or more
NORTHERN DIVISION																		
Albany	44.0		74	15	16	29		16	.70	-1.01	.38	19	T			7	1	
Amity	43.8		71	15	19	22+		15	1.11	-1.57	.38	19	1.0	T	28	9	1	
Brookfield	44.4		72	5+	18	29		19	2.26		.92	2				10	3	
Brunswick	45.2	3.6	78	16	19	29+		18	3.53	1.34	1.97	2	T	T	10	10	2	1
Canton Lock & Dam 20	44.9	2.2	70	4	16	29		12	1.39	-1.32	.51	19	T			9	1	
Carrollton	44.4		73	4	17	29		15	3.01		1.18	1	T			10	3	1
Chillicothe AP CAA	43.3	2.0	71	4+	18	29		17	2.06	- .06	.89	1	.2			8	2	
Columbia WB Airport	45.3	1.2	77	4	19	29		14	4.18	1.98	2.52	1	T	T	19	11	5	1
Columbia WB City	45.9	1.8	78	4	20	29		14	4.21	2.01	2.45	1	T	T	19	9	5	1
Columbia Univ of Mo	45.2		78	4	17	23+		17	4.91		3.27	2	T	T	19	11	4	1
Conception	43.5	2.1	72	15	20	22		16	.79	- .95	.46	19	T	T	28	3	2	
Edgerton	43.5	1.7	75	1	12	29		18	1.60	- .37	.93	2	1.0			5	2	
Elsberry	44.7	1.3	77	5	16	23+		17	3.22	.40	1.25	2	T	T	10	9	2	1
Fayette	45.5	3.3	77	4	18	23+		15	5.17	3.07	2.70	2	.2			10	4	2
Fulton	45.0	.8	77	5	18	23+		16	3.92	1.61	2.50	2	.3			8	3	1
Grant City	42.9	1.0	73	5	17	13+		15	.89	- .96	.47	19	T			4	2	
Hannibal Waterworks	45.1	3.0	74	4	20	23+		10	2.20	.14	1.03	2	T			6	3	1
Kidder	42.8	1.0	72	15	18	29		15	.97	-1.18	.48	2	1.0			6	2	
Kirksville	43.0	2.4	71	4	16	29		15	3.07	.95	1.27	19	T			9	3	2
Kirksville AP CAA	42.3		70	4+	16	29		15	2.76		.94	18	T			9	3	
Lathrop 3 SW	44.3		72	15	19	30		14	1.64		.73	19				5	2	
Louisiana Starks Nursery	45.8	1.7	77	4	18	23+		15	2.96	.50	1.85	2	T			9	2	1
Macon	42.8	.0	72	1	15	29		16	3.93	1.74	1.26	19	T			11	3	1
Maryville	42.3	2.9	71	15	18	29		18	1.24	- .68	.55	19	.3	T	28	6	2	
Memphis	42.4	2.8	75	1	15	29		21	2.95	- .04	1.47	19	T			6	3	1
Mexico	45.0	2.1	79	5	17	29		14	3.60	1.37	2.14	2	T			10	3	1
Moberly AP 4 NE	45.5		74	1	18	29		15		-2.54								
New Florence AP 1 SE	44.3		77	4	17	29		17	2.83		.88	1+	.5	T	10	9	4	
Oregon	44.1	3.6	72	15	20	22		15	1.60	- .38	.94	19	T	T	28	5	2	
Polo	43.7		74	6	21	29		18	1.80		1.40	2	T			2	2	1
Saint Charles	48.0	2.7	76	4	23	29		9	2.67	.56	.85	2				12	4	
Saint Joseph WB Airport	43.9	2.4	73	15	22	29		15	1.27	- .31	.47	1	T			9	2	
Salisbury	45.7		75	4	19	29		13	4.10		1.66	2	T	T	20	8	5	1
Saverton Lock & Dam	44.9	1.4	75	4+	17	29		16	1.95	-1.20	.81	2	T			8	2	
Shelbina	44.7		72	4	17	29		13	2.62	.52	1.11	2				7	4	1
Steffenville	44.5	1.0	71	4	17	29		15	1.95	- .24	.54	19	T			7	5	
Tarkio AP CAA	41.4	1.3	73	15	20	13		19	2.55	.81	.80	5+	T			5	3	
Trenton	44.8	2.6	73	15	19	29		12	1.30	- .82	.55	19	T			8	2	
Unionville	41.5	1.2	72	1	15	29		20	1.89	- .31	.68	19	.2			10	3	
Vandalia	45.1		77	4	16	29		14	2.41		1.58	2	T			5	2	1
Warrenton	46.0	2.8	78	4	17	29		15	3.26	.64	1.96	2	T			9	3	1
DIVISION	44.3	2.1							2.45	.23								
SOUTHWESTERN DIVISION																		
Anderson 2 SW	45.3	-4.0	82	1	13	23+		21	3.28	- .07	1.42	2	T	T	.20	7	4	1
Appleton City	46.2		80	4	17	29		16	3.09		1.75	1	T			5	2	2
Bolivar	47.7	.9	78	4	21	23+		14	3.53	.95	1.97	1	T			9	3	1
Boonville Waterworks	42.5	.0	72	5	17	23		16	4.58	2.37	3.30	2	T			9	3	1
Butler	46.0		78	4	16	29		17	2.27		1.51	1	T			5	2	1
Camdenton	50.5		80	4	20	23+		10	5.41		1.77	1	T	T	28	5	5	2
Caplinger Mills	47.5		79	4	18	30		13	2.37	- .39	1.01	1	T			6	2	1
Carthage	48.4		80	4	19	29		13	2.73		1.74	1				10	2	1
Clinton	45.6	-1.4	80	4	18	23		15	3.15	.99	2.58	1	T			8	1	1
Eldon	47.4 m	2.6	78	4	18	23		11	5.68	3.23	2.52	2	T	T	19	11	5	3
Harrisonville	44.5	2.0	77	1	20	22+		13	1.64	- .50	1.46	2	T			7	1	1
Jeff City Radio KWO	46.4	2.2	78	4	16	23		14	5.80	3.41	4.55	2	T			7	3	1
Joplin AP CAA	46.7	-1.6	79	4	20	23+		12	1.75	-1.02	1.20	1	T			9	1	1
Kansas City Univ of	47.0	2.2	78	5	19	23		13	1.98	.10	.77	1	T	T	28	8	3	
Lakeside	46.6	2.1	77	5	18	23		13	6.16	2.45	4.54	2				8	4	1
Lamar	45.5	- .8	78	5	16	29		17	2.17	- .36	1.80	2				5	1	1
Lebanon	47.6	2.0	75	4	17	29		13	3.66	1.02	1.50	2				8	4	1
Lexington	45.1	.9	76	5	23	23		14	2.43	.31	1.96	2	T	T	10	8	1	1
Lockwood	48.3	1.3	79	4	19	22		13	3.45	.61	2.50	2	T			8	2	1
Marshall AP CAA	44.0	-1.2	76	4	18	23+		19	3.41	1.09	1.67	1	.4	T	19	9	4	1
Marshfield	46.4		72	4	17	29		14	4.00		1.58	2	T			10	4	2
Monett	47.5		79	1	10	29		14	3.09		1.95	2	2.0	2	29	4	3	1
Mountain Grove	48.1	2.2	75	1	20	23+		12	2.75	- .20	1.12	2	.1	T	29	11	2	1
Mount Vernon 3 SW	47.3	1.5	78	4	17	29		14	4.86	1.92	2.68	1	2.0			10	4	1
Neosho	48.9	1.6	79	4	16	29		14	3.15	- .15	1.34	1	T			10	4	1
Nevada	48.3	3.5	81	4	17	29		13	1.95	- .20	1.10	1	T			6	2	1
Ozark Beach	48.2		82	1	19	23		16	3.56	.79	1.84	2	0			10	4	1
Sedalia	47.1	3.8	78	4	20	29		10	4.36	2.74	2.27	2				9	4	1
Seligman	49.1	1.8	77	4	16	29		9	2.66	- .43	1.77	2	3.0	3	29	7	2	1
Springfield WB Airport	46.2	1.2	76	4	20	29		13	3.07	.28	2.09	1	T	T	19	11	2	1
Sweet Springs	45.4		77	4	16	29		17	3.50		1.78	1				9	4	1
Warrensburg Central	47.3	2.3	77	4	21	23		12	2.83	.61	2.43	2	T			7	1	1
Warsaw No 1	48.5	1.3	80	4	16	29		13	3.20	.56	2.15	2	T			8	2	1
Wasola	49.3		76	4	18	29		13	4.20		1.84	2	T	T	29	10	5	1
DIVISION	47.0	1.1							3.40	.74								

See reference notes following Station Index.

Table 2—Continued

Station	Temperature								Precipitation									
							No. of Days						Snow, Sleet, Hail			No. of Days		
	Average	Departure from Normal	Highest	Date	Lowest	Date	Max. 90° or above	Min. 32° or below	Total	Departure from Normal	Greatest Day	Date	Total	Max. Depth on Ground	Date	.01 or more	.25 or more	1.00 or more
SOUTHEASTERN DIVISION																		
Advance AP	47.9	1.8	76	4	25	23+		15	5.46	2.18	1.74	18	T			11	8	1
Arcadia	48.8		85	4	23	29+		19	6.58		2.74	5	T			10	7	2
Birch Tree	47.5	.9	72	4+	16	23		16	6.95	3.79	1.98	2	1.9	1	28	11	9	2
Campbell	47.8 m	.2							7.06	3.36	2.33	4	T			12	8	2
Cape Girardeau Mo S	50.0		75	4	26	23		5	8.18	4.60	2.00	5	T			15	7	3
Caruthersville	52.7	2.3	87	4	30	30		4	5.45	1.60	1.55	19	T			16	6	1
Clearwater Dam Site	48.9		75	1	21	23		13	4.95		1.40	19	0			12	6	1
Crystal City	47.8	3.9	78	4	22	27+		17	3.18	- .24	1.15	2	T	T	9	11	3	1
Doniphan	49.2	1.9	75	4	20	30		16	7.96	4.54	1.75	2				11	9	3
Farmington	48.0	3.2	73	4	22	23+		13	5.99	3.17	2.21	5	T	T	10	10	6	3
Greenville 1 SW	48.8	3.4	76	4	19	23		16	5.64	2.28	1.20	2	T	T	28	13	7	1
Jackson	49.5	2.9	76	4	24	30		12	6.25	2.87	1.24	5	T			12	7	3
Koshkonong	50.1	1.1	77	4	22	29		8	5.99	2.73	1.60	19	1.1	1	29	12	9	2
Licking 4 N	45.5 m	.2							3.53	.89	2.00	2				6	3	1
Marble Hill	46.4	1.2	77	4	19	24+		18	4.19	.64	1.50	2	T			10	6	1
Poplar Bluff	50.5	2.8	77	4	24	30		10	8.12	4.64	2.53	3	T	T	29	16	7	2
Rolla School of Mines	46.6	1.6	75	1	18	23		12	2.61	- .07	1.73	2	T	T	9	8	2	1
Saint Louis WB Airport	47.0	3.1	74	4	23	29		10	2.55	.15	.62	9	T			11	6	
Saint Louis WB City	48.5	3.1	72	4	26	29		4	2.69	- .14	.56	4	T			13	3	
Saint Louis Univ	48.1	2.4	73	4	26	29		7	2.71	.17	.85	1	T			12	4	
Saint Louis Washington Univ	46.9	2.0	74	5	23	29		10	2.80	- .93	.97	2				13	4	
Salem	45.8	- .3	75	11	18	23		17	4.42	1.78	2.62	2	T			10	5	1
Sikeston	49.7	2.5	76	5	27	23		5	7.96	4.40	2.18	5	T			15	9	2
Union 2 SE	46.4	.3	78	4	20	27+		14	2.34	- .41	1.35	2	T			9	2	1
Vichy AP CAA 2 NW	46.0		74	4	18	23+		13	2.82		1.05	1	T			8	4	1
Wappapello Dam	49.9	1.9	76	1	25	23+		8	5.97	2.46	1.36	19	T			17	8	1
Webster Groves	46.5		76	4	22	29		15	3.02		.93	2	T			10	4	
Weingarten	48.7		75	4	22	29		11	4.78		1.67	5	T			8	6	1
West Plains	46.7	1.4	75	4	20	23		17	6.27	2.23	1.37	1	T	T	9+	11	8	1
Willow Springs	47.6		74	4	16	23		16	4.50	1.16	2.00	2	T	T	9	11	6	1
DIVISION	48.1	1.9							5.03	1.77								
STATE	46.5	2.1							3.64	.93								

See reference notes following Station Index

Table 3

DAILY PRECIPITATION

MISSOURI
NOVEMBER 1948

Station		Day of Month																														Total
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Advance AP	z		.70	.01	.55	.35				.75			.12				.42		1.74	.02		T	T				.51	T	.29				5.46
Albany		T	.04		.02	.13	.02						T				.09			.38	T				T	T			.02				.70
Alton 6 ENE	r	.80	.60		.32	.08				.80			.57			.10	.58		1.19			.26				*	.25		.15				5.70
Altona			2.30							.17											T								T				2.47
Amity		.23	.08		T	.06	.02				.01						.24		T	.38	.01		T		T				.08				1.11
Amsterdam	r	1.47	.09		.04					.08										.09													1.77
Anderson 2 SW		.17	1.42	.06			T			.42			T	.03			T				T	T							.52	.66			3.28
Annapolis		T	1.28	T		.56	T			.04	.75		.07	.13			.53	.22		1.68			.11				.41			.15			5.93
Appleton City	z	1.75	1.02							.22									.05	.05													2.89
Arcadia			.91			2.74				.40	.30		.05				.43			1.30	.05						.35			.05			6.58
Ashton 1 W	r		.06		.95				.08	.22							.22		.19	.48													2.20
Auxvasse		.65	1.69	.14		.28	.01			.47	T		.02				.06		T	.13	.01												3.46
Bedford	r	1.25	.25		.18												.15		.11	.45													2.39
8elleview			1.63	.09		1.21					.65		.20					.21		.87	.02		.01				.14			T			5.03
8ethany		T	.14	-	-	-	-	-	-	-	-	-	-	-	-		.25			.52	T								T				-
Birch Tree			1.98	1.48		.52				T	.62		.26	.18			.27	.14	T	.98			T				.27		T	.25			6.95
Bloomfield		T	.90	.30		1.84					.84		.12	.06			.30	.34		1.64							.11		.12	.52			7.09
Blue Lick			2.00	.80						T	.40						T			.85													4.05
Bolivar	z	1.97	.73	.02		.17	.04			.38			.04						.16	T									.02				3.53
Boonville			3.75	.11		.03				.14	.15							.07		.64	.06												4.95
8oonville Waterworks			3.30	.11		.02				.30	.06			.02				.10		.59	.08												4.58
Bowling Green			.56	1.30		.21				.26	.17							.08		.14	.05												2.77
Bradleyville			2.51	.22	.47					.09	.29		.28	.18														.33	.10				4.47
Brookfield			.92			.37	.02			.12	.03						.02	.12		.57	.07								.02				2.26
Browning 3 NE		.16	.16		.56	.25	.01			.04			T				.48			.45	T		T		T				.05				2.16
Brunswick			1.97	.15		.12	.06			.20	.18						.02			.67	.09								.07				3.53
Buffalo			3.40	.26	T	.28	.02			.39	.04			.03						.99		.02							T	T			5.43
Bunksr			1.50	.10		.22				.60	.16		.15		.35						.65	.35		.05									4.13
Burlington Junction							.69													.45						.13			.07				1.34
8utler		1.51	.52	T		T				.10			T				T			.12									.02				2.27
Camdenton		1.77	1.45			.95				.50			T							.74									T				5.41
Campbell			.78		2.33					.55	.05		.18	.05			.47		.30	1.63		T	T				.28		.38	.06			7.06
Canton Lock Dam 20			.08	.16	.02	.24	T			.13	.12						T	.08		.51	.05	T				T							1.39
Cap Au Gris L & D 25	r	.50	1.37	.02	.04	.01				.41			.05				.07		.04	.36	.02												2.89
Cape Girardeau Mo. 5tats		.02	1.44	.02		2.00				.73	.10		.07	.03			.99	.01	T	1.70	T						.49	.01	.44	.13			8.18
Cape Girardeau		.04	.62	.79	.02	2.00	.02	T			.84		.06	.04			.68	.45		1.75	T						.51	.04		.25			8.11
Caplinger Mills		1.01	.92		.11		.04			.24			T							T					T				.05				2.37
Carrollton		1.18	.91		.01	.01	.05			.12	.05						.05			.50	T								.13				3.01
Carthage		1.74	.09	.02	.10	.04			.20	.03			.06									.10							.35				2.73
Caruthsrsville		.08	.90	.17		.46	.04				.80		.13	.05			.36	.14		1.55			.09				.17	.06	.15	.30			5.45
Cassvills Ranger S.	z		1.21	.06		.18	.03			.36	T		.10	.15			.03			T	T	.07						.05	.61	.04			2.89
Centerville		T	1.28	.04		.82	T			.03	.79		.07	.07			.20	.05	T	.91	T		T				.43			.01			4.70
Centerville Ranger Sta.			1.35			1.00					.80		T	.06			T	.14		.82	.02		.04				.25			.06			4.54
Centralia			2.26	.37						.25	.14									.23	.05												3.30
Cbadwick			2.30							.34			.10	.18									T						T	.06			2.98
Chillicotbe 2 S			.95	.06		.42	.03										T	.09		.53	.T								.04				2.12
Chillicoths AP CAA		.89	.11		.17	.05	T			T	T						.17			.59	T				T			.01	.07				2.06
Clarksville L & D24	r //	.31	1.16		.15					.39							.38			.28	.02												2.69
Clearwater Dam 5ite	z		.76	.08		.57					.70		.04	.11			.38	.11		1.40			.24				.46			.10			4.95
Clifton City			3.10	2.03	.33	.13				.17	.11						.05		.14	.07													6.13
Clinton	z	2.58	.02	T	.07	T			.12	.16							T		.11	.07			T		T				.02				3.15
Columbia WB Airport		2.52	.63	.02	.04	.01	T		T	.28	.02		.03				.05		.25	.33	T		T						T				4.18
Columbia WB City	z	2.45	.63	T	.06	.02	T		T	.32	T		.03				.01		.35	.34	T		T						T				4.21
Columbia Univ	z	.71	3.27	.04		.04	.03			.25	.02		.04				.16			.33	.02								T				4.91
Conception					T	.28	.05						T				T			.46			T		T	T			T				.79
Concordia		2.22	.27														.02			.25	.09							T					2.85
Cook Station		1.08	.12			.60				.20	.28		.05	.10						.27			.17						T				2.87
Crane Mountain			.90			.50				.05	.67		.01	.06			.50	.02		1.07			.02				.35			.09			4.24
Crocker		2.02	3.25	T						.60		.06								.33									T				6.26
Crystal City			1.15	.02		.01				.70			.19				.01		.82	.16		.04	.05						.03				3.18
Deering		.07	.69			1.52					.56		.15	.02			.40	.10		1.08			.05				.15	.03	.22	.30			5.34
De 5oto			.90	.02	.04	.92				.78			.10				.19		.24	.25		.09							.08				3.61
Dextsr		.13	.74	.12		2.55					.78		.12	.13			.23	.28		1.68			.03				.07	.12	.25	.44			7.67
Doniphan		1.25	1.75			.86				.79			.29				.60		1.20	.13		.05	T				.42		.62				7.96
Doniphan 2 W			1.28	.05		.83				.75			.03	.28			.30	.28		.95			.14				.40	.04	.10	.57			6.00
Dora	r	.87	1.38		.58					.50			.68				.20		.06							.16	.02		.16				4.61
Downing	r				.24	.01			.08	.17							.05		.37	.80													1.72
East End			1.02																		.67		1.20										2.89
Edgerton			.93	.02							.13					T			.39					T					.13				1.60
Edina			.02	.10		.33	T			.32	.11						T	.42		1.35	T	T											2.65
Eldon		1.21	2.52	.03		.36	.02			.37	.02			.01			.01			1.11	T	T							.02				5.68
Eldorado Springs		1.48	.82			.19				.22			T				T		.02	.02								T	T				2.75
Elijab				.09	.45					1.45			.62				.25		.23								.43						3.52
Ellington	z	.20	1.20			1.65				.03	.78		.03	.12			.62	.13		.87			.10				.45			.02			6.20
Ellsinore		.35	.90			.51				.68			.20				.47		.09	.92		.06	.02			.28			.48				4.96
Elsherry			1.25	.74		.20				.19	.18			.14				.15		.22	.15									T			3.22
Eminence	r	.57	1.29		.86					.45			.23				.28		.91	.06						.05	.43		.14				5.27
Fairfax								.75												1.88	.02	T	T		.20								2.85
Farmington	z	T	1.03	.32		2.21	T				.65		T	.03			.09	.12	T	1.24	T		T				.25			.05			5.99
Fayetts		1.20	2.70		.03	.02				.30	.03		.02				.09			.75	.03												5.17
Fisk			.77	.15		1.12					.75		.45	.10			.21	.67	T	1.76							.23		.24	.75			7.20
Forsyth	z		1.53			.15				.15	.15		.20	.10			.05			.10									.15	.25			2.83
Fredericktown			1.14	.20		.56	T				.65			.02			.45	.11		.37			.22				.32			.05			4.09
Fulton	z		2.50	.10		.63				.35	.10							.04		.17	.03												3.92
Galena			1.53			.04	.03			.35	.02		.04	.22								.09							.30	.15			2.77
Gallatin			.35				.08										T	.01		.38										T			.82
Gerald			1.12	.07		.16				.44			.14				.06			.44		.03							T				2.46
Granby			1.30	.02						.35				.09																			1.78
Grant City	z		T			.32	.05						T				T			.47		T				.05		T	T				.89
Greenville 1 SW			1.20	.18		.91					.68		.05	.08			.28	.12	T	.95			.09				.67	.01	T	.42			5.64
Hailey		1.30	.08			.12				.33			.20								.01								.54				2.58
Hamden	r	1.32	.62		1.10				.23	.23							.05		.17	.45	.02								.05				4.24
Hannibal			1.06	.81		.06				.15	.12									.04	.08												2.32
Bannibal Waterworks		.18	1.03		.14	T				.29			T				.15			.41													2.20
Harris	r	.21	.07		.10	.04											.30			.40													1.12
Harrisonville		.01	1.46							.03							.01			.02	.06								.05				1.84
Bermann		1.50	.30							.12	.30							.10		.20													2.52
Higb Lookout		.35	1.60	T		1.09				1.02			.48	T			.49		.60	.16		.04					.29		.46				6.58
High Point 2 NE	r	*	*	4.70	.69					.34			.03	.01					.50	.45									.01				6.73
Bornersville	r		.52		.86	.69				.40			.22			.33	.21		.96	.07		.06	.05				.15	.07	.44				5.03
Houston	r	1.02	1.52	.05	.69					.33			.21				.10		.12			.16							.11				4.31
Jackson			1.14	T		1.24				.71	.09		.08	.03			.59		.06	1.15			T				.67		.40	.09			6.25
Jeff City Radio KWOS		T	4.55	.12	T	.64	T			.33	.13			T				T		.01	.02												5.80
Jefferson City	z	T	4.29	.10	T	.66	T			.29	.13			.02			T	T		.09	.01		T										5.59
Jerome			2.08	.06		T				.34	.08		.04							.24	T	T											2.84
Jewett	r	.60	.38		.50	.08				.85			.14				.83			.76		.17					.32		.17				4.60
Joplin AP CAA		1.20	.07	.02	T	T			.03	.06			.08				.02			T		.00						T	.21				1.75
Kahoka			.15	T		.70	.05	.46		.30	.14							.30		.60	.15												2.85
KC Mo St Jobn&Elmwd	r	.88	.26			.01											.02		.03	.01								*	.18				1.39
KC Mo 75tb Bolmes	r	*	1.78			.02							-	-	-	-	-	-	-	-								*	.44				-
KC Mo 37th Raytn Hd	r	.82	.20														.03		.04	.01								.14	.12				1.36
KC Univ of KC	z	.77	.55		T	.04	.01										.03		T	.09	.03		T						.46				1.98
Keytesville 4 NE										.30	.11									.62	.11												1.14
Kidder			.48				.10				.02						T	.02		.28	T								.07				.97
King City		.02			.05	.16											.10		T	.51									.09				.93
Kirksville		.01	.12		.02	1.14	.05			.31							.12			1.27	.03												3.07
Kirksville AP CAA	z	.09	.12	T	.27	.07			.22	.20	T		T				.19		.94	.66	T								T				2.76
Koshkonong			1.24	.30		.35				.13	.56		.30	.37			.33	03		1.60							.23	T		.55			5.99
La 8elle			T	.12		1.34				.14	.09						.30			.93	T								T				2.92
Lakeside	z		4.54	.02		.39	T			.37	.08			.01			T	.02		.73	T	T							T				6.16
Lamar		.12	1.80	.06		.04				.15																			T	T			2.17
Lampe Forest Service		.03	1.02	.01		T	T			.30	.05		.09	.06			T			.54		T							.26	.16			2.52
Lampe 4 NNE	r	1.45	.04							.34			.27				.03		.23										.44				2.80
Lathrop 3 SW		.62	.20		T	.05											T			.73									.04				1.64
Lehanon	z	.93	1.50	.07		.09				.52			.06				T			.47	T	.02							T				3.66
Lecoma 3 N	r	1.11	1.04	.04	.20	.01	.02			.40			.15						.07	.24		.07											3.35
Leeper		.01	1.07	.33							.70		.14	.13			.28	.28	T	1.06			.11				.61			.45			5.17
Lexington			1.96	.14		T	.02			.03	.04						T	T		.08	.03								.13				2.43
Licking 4 N			2.00	.22		.59				.36			.20							.16													3.53
Linneus	z	.25	.62			.44	.04			.05							.14			.62	.02												2.18
Livonia	r	.01	.02		*	.51				.05			.01				.20		.31	.92													2.03
Lockwood	z		2.50		.06	.32	.05			.21				.04						T									.20	.07			3.45
Louisiana Starks Nur			1.85	.04		.20				.40	.04		.02				.21		.02	.18													2.96
Louisiana			.86	.65		.24				.16	.27	T						.16		.07	.04												2.45
Lucerne	z		.28			.18	.08							T				.50		.72	.02												1.78
Macedonia Lookout			1.10	2.28		.85	.02				.65			.34				.36	T	1.26			.27				.34	.03	.20E	.56			8.26E
Macon	z		.94	.14		.98	.01			.20	.13			T			.03	.13		1.26	.08								.03				3.93
Madison		-	-	-						*	.35									1.10													-
Malden	r	.10	.95		1.06	1.19				.58			.23				.40		1.75	.07	-	-	-	-	-	-	-	-	-	-	-		-
Mansfield			2.30	.12		.15				.20	.22		.20				.12						.05						.15	.12			3.63
Marble Bill			1.50			.44				.82	.12		.15				.20		.26								.34		.28	.08			4.19
Marshall AP CAA	z	1.67	.36		.16	.01			.13	.18	T		T				.02		.54	.34	T		T		T			T	T				3.41

See reference notes following Station Index.

DAILY PRECIPITATION

Table 3—Continued

Station		Day of Month																														Total
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Marshfield		1.30	1.58	.09			.03			.32			.09							.34	.03	.08							.14				4.00
Martinsburg			1.67	.30		.28				.30	.18	T		.02			T	.14		.14	.04												3.07
Maryville					T	.45	.08				T						.02			.55		T				.06			.08				1.24
Maryville 6 NNW	r					.54													.04	.39						.10							1.07
Mc Credie	r	*	2.70		.40					.45			.04				.10		.02	.20	.02												3.93
Mc Credie Exp Sta	r	1.45	.67		.45					.42			.02				.04			.17													3.22
Memphis			.17			.86	.02				.10						T	.33		1.47	T												2.95
Mercer 8 NW			.32			.03	.15											.22		.49											.02		1.23
Mexico			2.14	.41		.15	.01			.26	.21			.04				.21		.09	.08												3.60
Middletown 2 SW	r	*	2.18		.47		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-												
Milan			.18			.95												.13		.54	.07								T				1.87
Monett			1.94			.12				.33	T																			.70			3.09
Monroe City			1.33	.04		.11				.28			T				.14			.19													2.09
Mora	r	2.77	.08			.03			.03	.19			.04				.05		.56	.28									.02				4.05
Morehouse			1.47			2.31				.49	.14		.13	.03			.60		.34	1.65							.27	.02	.48	.11			8.04
Mountain Grove	z		1.12			.58				.13	.21		.18	.01			.03			.17			.10						.10	.12			2.75
Mount Vernon 3 SW		2.68	.82	.03		.20	.17			.32			.03				T		T	.02		.03			T			T	.56				4.86
Neosho		1.34	.51	.05	.09	.04	.03			.37			.07				T			.04								T	.61				3.15
Nevada	z	1.10	.61			T	.06			.16							.01			.01								T	T				1.95
New Florence AP 1SE	z	.88	.88	.01	.26	T	T			.52	.01		.03				.01		T	.23	T	T							T				2.83
New Madrid		.63	.92	.54		2.11	T				.72		.11	.06			.28	.28		1.46			T				.34	.18	.11	.62			8.36
Oatee Tower			1.13	.06		.62				T	.70			.19				.30	.01	.61	T		T				.38			T			4.00
Odessa			1.20	.60		.02	.03													.04	.20								.10				2.19
Oregon			.11			T	.43				T									.94	.06					T			.06				1.60
Osceola	z		2.20			.18				.18	.01			.02			T			.15	.01									T			2.75
Owensville	z		1.23	.12		.08				.16	.26							.09		.10			.03							.10			2.17
Ozark			1.42				.07			.33	T			.04															T	.70			2.56
Ozark Beach			1.84	.04		.21				.28	.13		.35	.10			T			.16									.30	.15			3.56
Pacific			1.02	.05		.35					.86							.07		.77										T			3.22
Palmyra			.70	.10		.11			.25								.14			.54													1.84
Paris			1.31	.06		.08				.13	.07							.07		.18	.04												1.94
Parma			.90	1.60		2.65					.54		.18	T			.27	.14		1.90							.21	T	.45	.34			9.18
Pattonsburg	r	.10	.01			.05											.45			.33								.02	.03				.99
Perry	z		1.15							.30							.05			.03													1.53
Perryville		T	1.58			.89				.83			.06	T			.48		.20	.12		T	.04				.28		.10				4.58
Philadelphia			.54	.05		.01	T			.28			T				.12			.49	T												1.49
Pierce City			4.00	.06		.02	.01			.26	T			.03			T			T	.02	.04				T			.20	.20			4.84
Pineview Lookout		.04	1.50	.04			.04			.05	.25		.04	.20			.03			T	T	.04							.30	.20			2.73
Pleasant Hill			1.70	.12			.06			.05							.01			.04	.09								.09				2.16
Polo	z		1.40								T									.40									T				1.80
Poplar Bluff			.73	2.53		.73	.05			.05	.66		.10	.07			.21	.41		1.72			.01				.20	.07	.10	.48			8.12
Potosi	r	1.00	.42		.70	.02				.68			.11				.27		.39	.03		.05							.02				3.69
Puxico		T	.75	.07		.68	.03				.66		.10	.07			.43	.42		1.35			.01					.48	.05	.62			5.72
Qulin		.08	.67	.81	T	1.61	.03				.69		.15	.08			.26	.11		1.53							.01	.11	.28	.46			6.88
Richwoods	z		1.17	.23	T	.34				T	.23		.46	T						.44			.27							.01			3.15
Ridgeway	r	.07	.11		.03	.06	.03										.18		.01	.36									.02				.87
Roby		.73	1.77	.05		.13				.38			.12						.04	.06		.08							.10				3.46
Rogersville	r	2.66	.05		.08					.32			.16						.24			.04							.26				3.81
Rolla School-Mines	z		1.73	.03		.03				.43	.05		.08							.18	.08												2.61
Rolle 5 SE	r	.81	.74		.04	.01	.02			.32			.11						.07	.24		.08											2.44
Rolla 3 W	r	1.00	.48		.12					.45			.09						.05	.06		.03											2.28
Rolla 4 SE	r	.82	.96		.04					.30			.09						.08	.25		.08											2.62
Rolla 7 S	r	.87	.89		.02					.33			.10						.10	.10		.07											2.48
Round Spring			2.38			.36					.65		.21				.30			.70							.20		.15				4.95
Saint Charles		.09	.85	.20	.01	.39	T			.04	.50		.10	T			T	.12		.28	.03		.06							T			2.67
St. James 3 NW	r	1.05	.56	.03	.06	.03				.33			.08						.09	.17		.05											2.45
St Joseph WB Arpt	z	.47	T		T	.15			T	.02	.01						.07		.20	.30	T					T		.04	.01				1.27
St Louis WB Arpt	z	.38	.36	T	.40	.01	T			.62			.12				.30		.25	.06	T	.03	T	T					.02				2.55
St.Louis WB City	z	.54	.20	.04	.56	.02				.55			.13	.23			.09		.14	.08		.08							.03				2.69
St Louis Univ		.85	.29	.05	.51	.01				.47			.15				.01		.15	.09	T	.09	T						.04				2.71
St Louis Wash Univ	z	.04	.97	.03		.43				.07	.60		.13	.02				.17		.27	.01		.04							.02			2.80
St Thomas			4.12	.07		.25				.43							T			.10													4.97
Salem	z		2.62		.03	.52				.26	.28		.12	.08			.10			.25	T		.16						T	T			4.42
Salisbury		.88	1.66		.35	.02				.37	.02		T				.10			.70	T								T				4.10
Saverton L & D 22			.81	.52		.13	T			.14	.10	T		T			T	.08		.10	.07	T	T							T			1.95
Sedalia			2.27	.71	.08	.05				.25	.04							.13		.78	.05									T			4.36
Seligman			1.77	.05						.23	.02		.05									.05								.49			2.66
Seneca	r	1.44	.06							.20			.07																.50				2.27
Seymour 4 NNE			3.05	.08	.05		.02			.38			.14				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-
Shelbina		T	1.11			.13	T			.25	.05		T				.72			.33	.03												2.62
Shelbyville			.72			.42											.68			.35	.08												2.25
Shell Knob		.01	1.20	.02			.03			.34	.01		.05	.20			.02	.01		.04		.05							.25	.10			2.33
Sikeston		.04	.88	.34	T	2.18	.02				.70		.13	.08			.48	.36		1.65	T						.20	.30	.24	.38			7.96
Siloam Springs			1.17	.27		.40				.12	.56			.83			.23				.20									.43			4.21
Skidmore	r					.54	.01												.03	.65							.05		.06				1.34
Speed 2 W	r	2.92	.74	.02	.10				.07	.31			.05				.36		.07	.41													5.05
Spring City	r	1.38	.04		.01	.07			.02	.14			.04	.01						.03		.06							.63				2.43
Springfield WB Apt	z	2.09	.01	.02	.01	.03	T			.41			.06				T		.23	.01	T	.03			T				.17				3.07
Stanberry	r					.21											.05		.11	.31													.68
Steelville	z		.97	.06		.13				.45			.19							.26			T							T			2.06
Steffenville	z	.01	.32	T		.52				.28							.26			.54	.02												1.95
Stover			2.87	.03		.02	.02			.15	.06			T			T	.03		.19	.02									.01			3.40
Sugar Camp Lookout			.50	.39		.02				.29			T	.12			T		T			.06							T	.26			1.64
Sullivan 3 NE	z		1.03	.30	.01	.18	T			.15	.34		.05	.02				.03		.16	T		.05							.04			2.36
Summersville			1.04	.28	.02	.81				.15	.47		.42	.02			.20	.05	T	.42							.58			.32			4.58
Sweet Springs		1.78	.56			.02	.03			.33							.23		.05	.45	.05												3.50
Tarkio AP CAA	z	T			T	.80				T							T		.80	.76	T	T		T	T	.12		.07	T				2.55
Tecumseh			1.70	.05		.42					.40		.54	T														.45		.02	.30		3.88
Topaz			.55	.10		.90				.06	.40		.40				.10			.10							.20			.20			3.01
Trenton	z		.42	.03		.05	.06										T	.11		.55	.03								.05				1.30
Troy			2.00	.45	T	.10				.11	.35			.05				T		.10	.01									T			3.17
Union 2 SE			1.35	.10		.05				.21	.23		.05	T					.02	.26	T		.07							T			2.34
Unionville			.15	.02		.29	.09				.07			.03			T		.48	.68	.06					T			.02				1.89
Van Buren			.74	.30		.44					.75			.27						1.40							.50			.20			4.60
Vandalia			1.58			.15				.38	T		T				.15		T	.15	T												2.41
Vanzant			1.26	.10		.55				.20	.33		.35				.05			.17			.25				.05			.20			3.51
Vichy 2 SE	r	1.01	.55	.05	.05	.05					.44			.06					.09	.26		.08											2.64
Vichy AP CAA 2 NW	r	1.05	.68	.04	.01	T	T			.63			.11				T		.03	.27	T								T				2.82
Vienna 3 NW	r	1.79	.72	.04	.04					.50			.05							.19		.05											3.38
Villa Ridge	r	.91	.36		.04				.01	.49			.06				.05		.10	.35		.06											2.43
Waco		.14	1.41							.01E							T			T									.18				1.74E
Wappapello Dam	z		.63	.33		.98	.04			.10	.59		.07	.06			.46	.23	.01	1.86			.02				.55	.02	.02	.50			5.97
Warrensburg Central	T C		2.43			.03	.03			.19							.02	T		.06	.07												2.83
Warrensburg 5 E	r	3.10	.15						.04	.08									.07	.11													3.55
Warrenton			1.96	.04		.04				.38			.03	T			.05		.06	.67	.03	T							T				3.26
Warsaw No 1			2.15	.13		.11	.05			.15				.10			.03	T		.48	T			T		T				T			3.20
Warsaw No 2		T	2.06	T		.13				T	.22			.04			T			.53	T												2.98
Washington	r	.79	.71		.08					.42			.06				.30		.08	.17		.08							.02				2.71
Wasola	z		1.84	.05		.89				.04	.32		.29	.09			.10			.12										.46			4.20
Waverly			1.70	.10						.02							.01			.28	.07								.10				2.28
Webster Groves			.93	.01	T	.56				.72			.17				.10		.01	.36	T	.09							.07				3.02
Weingarten			.95	.10		1.67				.55							.38				.75						.28		.10				4.78
West Plains	z	1.37	.94	T	.53	T				.59			.99			.06	.25		.96	T		.02				T	.32		.24				6.27
Williamsburg	r	1.25	.81	.02	.37	.02				.43			.04				.08		.01	.21	.01												3.25
Williamsville			1.53	.41		1.20	.02			T	.78		.06	.19			.27	.23		1.00			.07				.52	.02		.54			6.84
Willow Springs			2.00	.27		.62				.11	.40		.32	.08			.14			.12							.13			.31			4.50
Willow Springs F.S.	r	1.44	.84		.61					.45			.40				.13		.14		.05	.03				.20			.20				4.49
Windsor 3 NW		T	2.69	.07	T	.04				.24	.01							.01		.37	.05								T				3.48
Zalma			.63	.11		.59	.05				.75		.16	.10			.30	.38		1.02							.43	.08	.03	.40			5.03

See reference notes following Station Index

HOURLY PRECIPITATION

Station		A. M. Hour ending												P. M. Hour ending												Total
		1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	
—1st—																										
Advance AP																					.01	.02		.01		.04
Alton 6 ENE															.06	.04	.02	.05	.22	.24			.08	.06	.03	.80
Amsterdam										.11	.60	.20	.01	.23	.06	.05	.04	.10	.01				.03	.02	.01	1.47
Appleton City										.10	.72	.03		.02	.07	.13	.25	.26	.18	.16		.05	.28	.20	.02	2.47
Bedford													.03	.17	.04		.06	.33	.12	.10	.17	.08	.08	.06	.01	1.25
Belleview																	.01	.01		.03	.80	.32	.01			1.18
Bolivar															.20	.93	.87	.11	.04	.15	.20	.33		.07	.02	2.92
Cap Au Gris Lock & Dam 25																							.11	.27	.12	.50
Cassville Ranger Station														.93	.07	.04	.01	.01			.05	.03			.01	1.15
Chillicothe AP CAA	6								*	*	*	*	*	.07	*	*	*	*	*	.57	*	*	*	*	*	
Clarksville Lock & Dam 24	//																						.05	.15	.11	.31
Clearwater Dam Site																.01	.06	.03	.11	.15	.03	.07				.46
Clinton											.06	1.05	.02			.24	.26	.34	.11	.01	.01	.03	.15	.20	.02	2.50
Columbia WB Airport	6														*	*	*	*	*	.77	*	*	*	*	*	
Columbia WB City															.05	.20	.12	.11	.16	.35	.42	.27	.20	.35	.22	2.45
Columbia Univ. of Mo.															.20	.22	.14	.09	.20	.85	.65	.10	.15	.30	.25	3.15
Dora										.01				.04	.02	.03	.01	.15	.12	.01	.03	.11	.13	.19	.02	.87
Ellington																		.12		.23	.33	.02	.09		.01	.80
Eminence																		.01	.16	.23	.05			.08	.04	.57
Farmington																		.03			.27	.40	.02	.01		.73
Forsyth													.01	.09	.03	.03	.30	.11	.02	.51	.11	.16	.02			1.39
Fulton																.01	.18	.07	.24	.30	.39	.26	.03	.07	.16	1.71
Hamden															.14	.11	.02	.13	.18	.17	.16	.14	.06	.04	.17	1.32
Harris																				.02	.09	.08	.02			.21
High Point 2 NE														.03	.25		.20	.47	.65	.43	.20	.02	.25	*	*	*
Houston															.03			.21	.17	.02	.16	.03	.02	.02	.36	1.02
Jefferson City Radio KWOS																.40	.04	.06	.42	.98	.84	.36	.50	.30	.10	4.00
Jewett																			.02	.04	.37	.17				.60
Joplin CAA AP	6								*	*	*	*	*	.27	*	*	*	*	*	.50	*	*	*	*	*	
Kansas City WB Airport											.18	.31	.13	.14	.03	.02				.02	.01	.01		.09	.06	1.00
Kansas City St. John & Elmwood											.10	.20	.10	.08	.02	.10					.01	.01	.06	.12	.08	.88
Kansas City 75th & Holmes		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Kansas City 37th & Raytown Rd.											.15	.16	.08	.12	.11	.01				.06				.12	.01	.82
Kansas City Univ. of K. C.											.28	.24	.11	.07	.01	.01								.15	.05	.92
Kirksville AP CAA																	.01	.01	.02				.02	.02	.02	.10
Lakeside																.05	.25	1.15	.75	.10	.05	.23	.62	.30	.15	3.65
Lampe 4 NNE														.01	.08	.15	.15	.14	.46	.18	.14	.04			.10	1.45
Lebanon															*	*	*	*	*	*	*	*	*	*	*	*
Lecoma 3 N																			.40	.41	.03	.16	.01	.04	.06	1.11
Linneus														.05	.14	.01		.05	.11	.04	.09	.01	.01			.51
Livonia																									.01	.01
Lockwood										.04				.30	.10	.25	.30	.84	.11	.05	.01	.21	.21	.08		2.50
Lucerne																				.05	.05	.06	.04			.20
Macon																.04	.01		.03	.05	.08	.13	.11	.10	.04	.59
Malden																		.01	.04		.04				.01	.10
Marshall AP CAA														.15	.03	.06	.34	.40	.25	.20	.03	.02		.06	.09	1.63
McCredie																*	*	*	*	*	*	*	*	*	*	*
McCredie Exp. Sta.																.02	.10	.06	.12	.19	.38	.28	.04	.06	.20	1.45
Middletown 2 SW																		*	*	*	*	*	*	*	*	*
Mora													.95	.02		.45	.30	.23	.22	.04			.21	.25	.10	2.77
Mountain Grove										*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Nevada									.31	.47	.01		.01	.01	.09	.01	.09	.11	.08	.01		.30	.12	.04		1.66
New Florence AP 1 SE																			.05	.01	.29	.30	.05	.04	.15	.89
Osceola											.06	.10		.02	.50	.14	.31	.22	.09	.02	.01	.11	.33	.09	.05	2.05
Owensville																		.04	.01	.23	.32	.01	.14	.25	.02	1.02
Pattonsburg																	.03							.02	.05	.10
Perry																				.03	.01	.07	.13	.11	.05	.40
Polo		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Potosi																				.03	.42	.50	.04	.01		1.00
Richwoods																					.07	.41	.12	.08		.68
Ridgeway																						.01	.01	.02	.03	.07
Rogersville														.01	.10	.18	.17	.27	.22	.56	.63	.29	.21	.02		2.66
Rolla School of Mines															.01	.01	.08	.04	.26	.30	.04	.06	.05	.05	.05	.95
Rolla 5 SE															.01				.05	.48	.02	.08	.06	.01	.10	.81
Rolla 3 W														.01	.03		.12	.11	.39	.09	.02	.12	.06	.04	.01	1.00
Rolla 4 SE															.01			.01	.06	.49	.01	.08	.06		.10	.82
Rolla 7 S															.05	.01			.23	.22	.01	.15	.03	.11	.06	.87
St. James 3 NW																		.01	.03	.65	.15	.01	.14	.02	.04	1.05
St. Joseph WB Airport												.11	.23	.11			.01			.01						.47
St. Louis WB Airport																						.02	.06	.20	.06	.34
St. Louis WB City																							.04	.28	.22	.54
St. Louis Washington Univ.																						.02	.13	.31	.16	.62
Salem																			.20	.80	.10	.15		.03	.02	1.30
Seneca								.08	.07			.03	.03	.24	.69	.01	.03	.01	.24	.01						1.44
Speed 2 W											.01		.01		.28	.43	.12	.30	.40	.35	.35	.21	.07	.03	.36	2.92
Spring City						.03	.35		.02			.02	.04	.09	.40	.04	.05		.08	.26						1.38
Springfield WB Airport 4 NW													.01			.32	.10	.06	.11	.68	.39	.05	.34	.03		2.09
Steelville																				.28	.08	.08	.06	.08	.02	.60
Steffenville																							.02	.06		.08
Sullivan 3 NE																					.14	.13	.35	.05	.01	.68
Trenton																		.05	.05	.05	.10	.10				.35
Vichy 2 SE															.04	.01		.05	.19	.42	.11		.09	.03	.07	1.01
Vichy AP CAA 2 NW	6														*	*	*	*	*	.48	*	*	*	*	*	
Vienna 3 NW																.29		.12	.12	.23	.49	.29	.07	.08	.10	1.79
Villa Ridge																						.35	.28	.18	.10	.91
Wappapello Dam																		.01	.12	.01	.14	.01				.29
Warrensburg 5 E												.15	.46	.02	.07	.75	1.00	.29	.15	.01			.05	.05	.10	3.10
Washington																					.01	.37	.14	.17	.10	.79
Wasola														.11	.11		.02	.17	.01	.16	.50	.21	.07	.05	.01	1.42
West Plains														.03	.03	.04	.01	.03	.41	.42	.12	.02	.10	.02	.28	1.51
Williamsburg																	.05	.04	.24	.05	.34	.39	.05		.09	1.25
Willow Springs														.03	.04	.12	.01	.18	.20	.23	.10	.05	.13	.01	.34	1.44
—2d—																										
Advance AP		.01	.05	.09	.17	.16	.03							.04	.06	.02										.63
Alton 6 ENE		.03	.07					.01	.09	.37	.03															.60
Amsterdam		.03	.01					.05																		.09
Appleton City		.02	.01		.02	.08	.12																			.25
Ashton 1 W			.05	.01																						.06
Bedford		.02	.04	.02				.02	.10	.04	.01															.25
Belleview			.04	.05	.10			.15	.01	.01		.01	.02													.39
Bolivar		.01				.01	.01	.03	.04	.02	.01	.01					.01	.01								.16
Cap Au Gris Lock & Dam 25		.19			.01	.02	.15	.11	.20	.27	.16	.02			.02	.03	.01	.01	.06	.09				.02		1.37
Cassville Ranger Station		.01	.01		.01	.01		.02	.02	.01					.02	.01										.12
Chillicothe AP CAA	6	.25	*	*	*	*	*	.03	*	*	*	*	*	.08												
Clarksville Lock & Dam 24	//	.16	.12			.01	.09	.18	.09	.23	.10	.03	.08	.01			.01			.04		.01				1.16
Clearwater Dam Site		.04	.09	.09		.08										.04	.03		.02							.39
Clinton		.01	.01	.01			.01																			.04
Columbia WB Airport	6	1.76	*	*	*	*	*	.44	*	*	*	*	*	.12	*	*	*	*	*	.05	*	*	*	*	*	
Columbia WB City		.15	.02	.01	.05	.14	.07	.02	.07		.02			.01	.01	.01	.02	.01		.01					.01	.63
Columbia Univ. of Mo.		.13	.04	.03	.03	.13	.23	.02	.04	.05									.05							.75
Dora		.01	.01	.01		.20	.10	.04	.03	.01			.07	.01		.77	.11		.01							1.38
Ellington		.02	.03	.08	.10	.01	.01	.15																		.40

See reference notes following Station Index.

HOURLY PRECIPITATION

Table 4-Continued

Station		A. M. Hour ending												P. M. Hour ending												Total
		1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	
Eminence		.07	.03	.02	.78	.03				.01	.01		.26	.08												1.29
Farmington			.05	.20	.03			.01	.06	.03	.02	.07				.01	.05			.01	.04					.58
Forsyth		.12	.02						.03																	.17
Fulton		.07	.02		.34	.10	.07	.13	.06	.08		.01	.01													.89
Hamden		.13	.14	.05	.01		.10	.05	.05	.02	.04	.03														.62
Harris			.01	.01					.03	.02																.07
High Point 2 NE		*	*	*	*	*	*	*	2.08	.03		.03	.01				.01						.01	*	*	*
Hornersville		.26	.15	.08		.02	.01																			.52
Houston		.36	.84	.16	.01					.01	.03				.11											1.52
Jefferson City Radio KWOS		.05	.09	.07	.17	.22	.01	.01	.07	.01	.08			.01												.79
Jewett		.01	.04	.11	.03		.06	.01	.01												.09	.02				.38
Joplin AP CAA	6	.43	*	*	*	*	*	.04													*	*	*	*	*	
Kansas City WB Airport		.04	.01	.01	.02	.01	.01	.01	.02	.03	.01	.01	.01													.19
Kansas City St. John & Elmwood		.02		.05	.04		.01	.01	.09		.01		.03													.26
Kansas City 75th & Holmes		*	*	*	*	*	*	*	*	*	*	*	1.78													1.78
Kansas City 37th & Raytown Rd.		.04			.05			.01	.09	.01																.20
Kansas City Univ. of K. C.		.08	.02		.02	.03	.03		.02	.01	.01	.01	.02	.03												.28
Kirksville AP CAA		.03	.01				.02		.04		.01			.01												.12
Lakeside		.45	.05	.05	.12	.08	.01	.02	.07			.01	.01	.01												.88
Lampe 4 NNE		.03	.01																							.04
Lecoma 3 N		.15	.07	.02	.04	.41	.25		.01	.05	.03						.01									1.04
Linneus			.09					.09	.10	.01																.29
Livonia		.02																								.02
Lockwood								.04																		.04
Lucerne			.05	.01				.01	.02																	.09
Macon		.12	.03	.01	.04	.01	.06	.07	.03	.03	.06	.01														.47
Malden			.25	.34	.06							.19	.01	.06	.02		.02									.95
Marshall AP CAA		.14	.01	.05	.05				.05	.02																.32
McCredie		*	*	*	*	*	*	*	2.57		.03	.05	.02	.01		.02										2.70
McCredie Exp. Sta.		.07	.01	.01	.29	.08	.04	.03	.01	.03	.02	.03	.01	.01	.01	.02										.67
Middletown 2 SW		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	2.18								2.18
Mora				.02	.02	.01		.01	.02																	.08
Mountain Grove		*	*	*	*	*	*	*	1.12																	1.12
Nevada					.02	.01				.01				.01	.01	.01	.01									.08
New Florence AP 1 SE		.07	.01	.02	.24	.19	.07	.01		.10	.08	.06	.01													.86
Osceola		.03				.05		.01	.05																	.14
Owensville		.01	.01	.11	.05	.03			.02				.01	.05	.01						.02					.32
Pattonsburg			.01																							.01
Perry		.07	.10	.07		.02	.08	.08	.07	.10	.06	.02	.01		.01	.01	.01	.03			.01					.75
Polo		–	–	–	–	–	–	–	.03'	.02																–
Potosi			.01	.04	.08	.04	.01	.02	.03	.07	.01		.05	.04				.02								.42
Richwoods		.01	.01	.11	.15	.16	.01		.02	.05	.02	.03		.01	.01	.01		.01	.04	.01			.01			.67
Ridgeway		.01	.01		.01	.02	.04		.02																	.11
Rogersville						.02	.01											.02								.05
Rolla School of Mines		.05	.09	.01		.01	.58	.01	.05															.01		.81
Rolla 5 SE		.03	.07		.01	.03	.49	.04	.03								.01	.02	.01							.74
Rolla 3 W		.17	.01	.03	.01	.14	.07	.04	.01																	.48
Rolla 4 SE		.04	.08	.02	.01	.06	.60	.05	.05								.01	.01	.01	.02						.96
Rolla 7 S		.12	.06	.05	.02	.13	.37	.02		.01	.01	.03					.05	.02								.89
St. James 3 NW		.05	.14	.02	.02		.19	.02	.06	.03						.03										.56
St. Louis WB Airport		.05	.01		.01	.03	.02	.02	.10	.05								.03	.01							.33
St. Louis WB City		.04				.02	.02	.01	.08	.01	.01														.01	.20
St. Louis Washington Univ.		.05	.01		.02	.06	.04	.05	.08	.02	.01															.34
Salem		.20	.05		.02	.23	.49	.28																		1.27
Seneca		.02	.01								.01	.01				.01										.06
Speed 2 W		.27	.05	.11	.05	.04	.01	.04			.03		.03	.01					.07	.02					.01	.74
Spring City													.04													.04
Springfield WB Airport 4 NW					.01																					.01
Steelville			.04	.02		.01	.03	.11	.05				.01	.03	.02			.01	.01	.01						.35
Steffenville		.01			.01	.02			.04	.02	.09	.02						.02								.23
Sullivan 3 NE				.03	.07	.07	.05			.01	.05	.01	.02						.06	.06	.02	.05	.01			.51
Trenton		.01	.03	.01						.05																.10
Vichy 2 SE		.04	.10	.03	.02	.01	.24	.05	.04	.01							.01									.55
Vichy AP CAA 2 NW	6	.58	*	*	*	*	*	.51	*	*	*	*	*	.08	*	*	*	*	*	.05	*	*	*	*	*	
Vienna 3 NW		.05	.10	.15	.03	.02	.01	.22	.03	.04						.06				.01						.72
Villa Ridge			.03	.02	.14	.06		.02	.02	.02	.03	.01			.01											.36
Wappapello Dam		.05	.17	.08	.02						.02	.01		.13	.05	.04		.01	.07							.65
Warrensburg 5 E		.05		.01	.01	.07					.01															.15
Washington		.05	.06	.05	.14	.09	.10	.07	.05	.02	.02	.02	.02						.01			.01				.71
Wasola		.01	.02		.01	.21	.18							.03	.01											.47
West Plains		.09	.03				.09	.44		.04		.01		.01	.01	.01	.01	.11								.85
Williamsburg		.08	.01	.04	.18	.19	.04	.09	.05	.05	.05	.03														.81
Willow Springs		.65	.03	.01	.01					.01	.04	.06	.01	.02												.84

–3d–

Station		A. M. Hour ending												P. M. Hour ending												Total
		1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	
Belleview			.05																							.05
Cap Au Gris Lock & Dam 25		.01		.01																						.02
Columbia WB Airport	6	.01	*	*	*	*	*	.01																		
Farmington				.01		.01				.01																.03
High Point 2 NE		*	*	*	*	*	*	*	.03																	4.70
Houston							.01	.01		.03																.05
Lebanon		*	*	*	*	*	*	*	*	*	*	*	*	*	*	2.50										2.50
Lecoma 3 N		.01	.01	.01		.01																				.04
Lockwood										.02																.02
Owensville			.01																							.01
Richwoods								.01	.04																	.05
Rolla School of Mines		.01								.01																.02
St. James 3 NW									.01	.01	.01															.03
St. Louis WB City				.03	.01																					.04
Speed 2 W			.01	.01																						.02
Springfield WB Airport 4 NW												.01	.01													.02
Sullivan 3 NE				.01				.01																		.02
Vichy 2 SE										.01	.03	.01														.05
Vichy AP CAA 2 NW	6	.03	*	*	*	*	*	.02	*	*	*	*	*	.02												
Vienna 3 NW									.02	.01	.01															.04
Williamsburg						.02																				.02

–4th–

Station		A. M. Hour ending												P. M. Hour ending												Total
		1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	
Advance AP																							.12	.29	.25	.66
Alton 6 ENE																					.08	.02	.22			.32
Amsterdam																			.03	.01						.04
Ashton 1 W																			.07	.29	.05	.39	.15			.95
Bedford																				.18						.18
Belleview																						.05	.45	.53	.13	1.16
Bolivar																				.07	.09					.16
Cap Au Gris Lock & Dam 25																								.03	.01	.04
Cassville Ranger Station																				.19						.19
Chillicothe AP CAA	6														*	*	*	*	*	.16	*	*	*	*	*	
Clarksville Lock & Dam 24	//																						.14	.01		.15
Clearwater Dam Site																					.08	.03			.04	.51
Clinton																			.03	.04						.07
Columbia WB Airport	6																				*	*	*	*	*	
Columbia WB City																				.04	.02					.06
Columbia Univ. of Missouri																					.04					.04
Dora																					.40		.18			.58

See reference notes following Station Index.

Station	A. M. Hour ending												P. M. Hour ending												Total
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	
Downing																				.12	.12				.24
Ellington																				.72	.14	.49	.20	.06	1.61
Eminence																				.25	.09	.10	.42		.86
Farmington																					.65	.99	.40	.14	2.18
Forsyth																				.14	.02				.16
Fulton																				.10	.54				.64
Hamden																		.89	.06	.15					1.10
Harris																		.04	.06						.10
High Point 2 NE																			.25	.44					.69
Hornersville																						.01	.39	.46	.86
Houston																				.40		.24	.05		.69
Jefferson City Radio KWOS																				.43	.21				.64
Jewett																				.01	.01			.48	.50
Kansas City Univ. of K. C.																		*	*	*	*	*	*	*	*
Kirksville AP CAA																			.03	.22	.01				.26
Lakeside																				.39	.05				.44
Lebanon																				*	*	*	*	*	*
Lecoma 3 N																				.03		.17			.20
Linneus																			.20	.21					.41
Livonia			*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Lockwood																		.18	.11						.29
Lucerne																		.03	.12	.01		.01			.17
Macon																	.12	.42	.41		.02				.97
Malden																					.06	.05	.69	.26	1.06
Marshall AP CAA																		.10	.02	.01		.01			.14
McCredie																				.22	.16	.02			.40
McCredie Exp. Sta.																				.08	.33	.04			.45
Middletown 2 SW																					.42	.05			.47
Mountain Grove																				.42	.08	.08			.58
New Florence AP 1 SE																					.19	.09			.28
Osceola																			.14						.14
Owensville																						.08			.08
Perry																						.03			.03
Polo																.02	.04	.04							.10
Potosi																				.02	.03	.39	.22	.04	.70
Ricbwoods										.01	.01									.02		.10	.10	.06	.30
Ridgeway																	.01	.02							.03
Rogersville																				.08					.08
Rolla School of Mines																								.01	.01
Rolla 5 SE																					.01	.02	.01		.04
Rolla 3 W																					.01	.11			.12
Rolla 4 SE																						.01	.03		.04
Rolla 7 S																						.01	.01		.02
St. James 3 NW																						.06			.06
St. Louis WB Airport																						.05		.33	.38
St. Louis WB City																					.02	.26	.08	.20	.56
St. Louis Washington Univ.																						.10	.07	.21	.38
Salem																					.35	.08	.08		.51
Speed 2 W																		.02		.08					.10
Spring City																	.01								.01
Springfield WB Airport 4 NW																				.01					.01
Steelville																					.04		.09		.13
Steffenville																	.02		.06	.41	.02				.51
Sullivan 3 NE																						.05	.06	.04	.15
Trenton																		.08	.01						.09
Vichy 2 SE																						.05			.05
Vichy AP CAA 2 NW 6																				*	*	*	*	*	
Vienna 3 NW																					.01	.02		.01	.04
Villa Ridge																							.03	.01	.04
Wappapello Dam																					.02	.38	.06	.17	.63
Wasbington																							.06	.02	.08
Wasola																			.10	.51	.21	.05		.01	.88
West Plains																				.01	.04	.47			.52
Williamsburg																				.31	.06				.37
Willow Springs																				.22	.04	.34	.01		.61
-5th-																									
Advance AP	.14	.15	.08		.01				.01																.39
Alton 6 ENE	.07	.01																							.08
Belleview	.01	.01	.01																						.03
Bolivar																				.04	.01				.05
Cap Au Gris Lock & Dam 25	.01																								.01
Cassville Ranger Station																					.02				.02
Chillicothe AP CAA 6	.01													*	*	*	*	*	.03	*	*	*	*	*	
Clearwater Dam Site	.03	.02	.01																						.06
Columbia WB Airport 6	.04																			*	*	*	*	*	
Columbia WB City																					.01	.01			.02
Columbia Univ. of Missouri																						.02	.01		.03
Downing	.01																								.01
Farmington	.01	.01							.01	.01															.04
Grant City													.08	.07	.09	.02	.04	.02	.01		.01	.01			.35
Harris																			.03	.01					.04
Hornersville	.52	.06	*	*	*	*	*	.11																	.69
Jewett	.05	.02	.01																						.08
Joplin AP CAA 6														*	*	*	*	*	.02						
Kansas City WB Airport								.01	.01								.03								.05
Kansas City St. John & Elmwood												.01													.01
Kansas City 75th & Holmes															.01	.01									.02
Kansas City Univ. of K. C.	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.04	*	*	*	*	*	*	.01	.05
Kirksville AP CAA								.01	.01		.01														.03
Lebanon	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.09				.09
Lecoma 3 N																								.01	.01
Linneus								.03																	.03
Livonia	*	*	*	*	*	*	*	*	*	.48										.03					.51
Lockwood																			.02		.01				.03
Lucerne	.01																.02	.04	.02						.09
Malden	.97	.11	.10	.01																					1.19
Maryville 6 NNW											.02	.03	.08	.12	.06	.07	.06	.07	.02	.01					.54
Mora																			.01	.02					.03
Mountain Grove	.01	.01																							.02
Nevada																		.02	.02						.04
Pattonsburg																.01	.02	.01			.01				.05
Polo																	.04	.01							.05
Potosi		.02																							.02
Ricbwoods			.01																						.01
Ridgeway																	.01	.01	.01	.01		.01		.01	.06
Rolla School of Mines	.01																								.01
Rolla 5 SE																								.01	.01
St. James 3 NW																							.02	.01	.03
St. Josepb WB Airport														.03	.06	.02	.01	.01	.01		.01				.15
St. Louis WB Airport	.02																								.02
St. Louis WB City	.02																								.02
St. Louis Wasbington Univ.	.01																								.01
Skidmore											.08	.03	.11	.10	.08	.05	.04	.02	.01		.01			.01	.54
Spring City			.03														.01	.02	.01						.07

See reference notes following Station Index.

HOURLY PRECIPITATION

Table 4-Continued

Station		A. M. Hour ending												P. M. Hour ending												Total
		1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	
																				.01	.01	.01				.03
pringfield WB Airport 4 NW															.06	.04	.02	.03	.05	.01						.21
tanberry											.05	.11	.16	.09	.12	.09	.07	.02	.01	.01						.73
arkio AP CAA																		.04	.01							.05
renton																									.05	.05
ichy 2 SE		.01																								
ichy AP CAA 2 NW	6	.21	.05	.08	.01									.04	.01											.40
appapello Dam			.01																							.01
asola		.01			.01																					.02
illiamsburg																										
—6th—																										
hillicothe AP CAA	6	.02																								
olumbia WB Airport	6	.01																								.02
ecoma 3 N			.01	.01															-	-	-	-	-	-	-	-
iddletown 2 SW																										.03
idgeway		.02	.01																							.02
olla 5 SE		.01		.01																						.01
kidmore		.01																								
—8th—																										
																								.01	.04	.05
ppleton City																					.01	.02	.01	.01	.03	.08
shton 1 W																									.01	.01
Cassville Ranger Station																							.02	.04	.04	.10
Clinton																							.01	.04	.03	.08
Downing																						.05	.05	.05	.08	.23
amden																					*	*	*	*	*	
Joplin AP CAA	6																			.01	.03	.02	.03	.08	.05	.22
irksville AP CAA																									.02	.02
ockwood																						.02	.01	.02	.05	.10
acon																							.03	.03	.06	.12
arshall AP CAA																								.02	.01	.03
ora																								.01	.04	.05
Osceola																									.01	.01
Owensville																									.07	.07
Speed 2 W																								.01	.01	.02
Spring City																									.01	.01
Villa Ridge																								.02	.02	.04
Warrensburg 5 E																										
—9th—																										
										.06	.03	.11	.13	.10	.02	.07	.07	.07	.05	.02						.73
Advance AP				*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.80	.80
Alton 6 ENE						.01		.01	.02	.01	.03															.08
Amsterdam						.02	.05		.02	.03	.01															.13
Appleton City		.03	.04	.04	.01				.03	.05	.02															.22
Ashton 1 W								*	*	*	*	*	*	*	*	*	.78									.78
Belleview		.04	.04	.10	.07	.07	.02	.08	.02	.01																.45
Bolivar						.04	.02	.08	.04	.10	.01	.05	.03	.02	.02											.41
Cap Au Gris Lock & Dam 25		.03	.03	.07	.05	.05	.04	.05	.02																	.34
Cassville Ranger Station					.04	.02	.03	.08	.03	.09	.01	.04	.04	.01												.39
Clarksville Lock & Dam 24	//								.20	.04	.02	.09	.08	.09	.08	.08	.03									.71
Clearwater Dam Site		.01					.05	.05	.05																	.16
Clinton			*	*	*	*	*	.11	*	*	*	*	*	.17												
Columbia WB Airport	6	.01	.02	.01	.02	.02	.08	.03	.06	.05	.01	.01														.32
Columbia WB City		.01	.04				.01	.04	.09	.04	.02															.25
Columbia Univ. of Missouri						.04	.07	.02	.02	.05	.11	.04			.02	.04	.04	.03	.02							.50
Dora		.02	.04	.01				.01	.05	.02	.01	.01														.17
Downing								*	*	*	*	*	*	*	*	*	.79									.79
Ellington								.07	.02		.08	.11	.11	.04		.01		.01								.45
Eminence									.04	.13	.04	.06	.09	.09	.06	.04	.09	.01								.65
Farmington				.01	.05	.03	.06	.02	.08	.05	.05															.35
Forsyth					.03	.02	.05	.07	.08	.07	.08	.03	.01		.01											.45
Fulton		.04	.03					.05	.05	.05	.01															.23
Hamden		.01	.01		.03	.07	.08	.01	.09	.02	.02															.34
High Point 2 NE														.06	.07	.06	.07	.09	.04	.01						.40
Hornersville							.05	.07	.02	.04	.05	.05	.02	.02	.01											.33
Houston				.01	.05	.05	.10	.11	.08	.08	.02															.50
Jefferson City Radio KWOS									.13	.08	.02	.04	.09	.08	.07	.07	.04	.03								.65
Jewett		.03	*	*	*	*	*	.06																		
Joplin AP CAA	6	.04	.03					.02	.04		.03	.01	.01													.18
Kirksville AP CAA			.01	.04	.05	.07	.08	.05	.06	.08	.01															.45
Lakeside			.01	.07	.03	.02	.02	.03	.11	.03	.01		.01													.34
Lampe 4 NNE			.03	.03	.07	.07	.08	.09	.11	.03	.02															.53
Lebanon						.05	.04	.11	.01	.07	.07	.04	.01													.40
Lecoma 3 N								.02	.02	.01																.05
Linneus									.03	.02																.05
Livonia		.03	.01	.01	.04	.02	.03	.01	.03	.01	.02															.21
Lockwood		.04	.04					.03	.08	.03	.01															.23
Macon										.03	.03	.09	.01	.09	.08	.05	.05	.08	.05	.02						.58
Malden		.02	.01				.01	.09	.04	.01																.18
Marshall AP CAA					.01	.02	.09	.09	.07	.07	.08	.02														.45
McCredie			.04	.03	.07	.07	.08	.09	.03	.01																.42
McCredie Exp. Sta.		.04					.04	.05		.01	.04	.01														.19
Mora							.02	.07	.01	.06	.04		.06	.02												.28
Mountain Grove					.01	.06	.04	.03																		.14
Nevada				.01	.04	.05	.12	.08	.05	.03	.07	.06														.51
New Florence AP 1 SE		.03				.02	.03	.03																		.11
Osceola					.01		.10	.06	.08	.02	.07	.01														.35
Owensville			.03			.01	.03	.05	.03	.07	.04	.01			.01											.28
Perry									*	*	*	*	*	*	*	*	*	*	*	*	.68					.68
Potosi								.01	.16	.05		.09	.10	.07	.01	.01	.02	.03	.02	.01	.01	.02	.01			.62
Richwoods			.01	.01	.02	.04	.07	.05	.05	.02	.02	.01	.02													.32
Rogersville					.01	.05	.05	.09	.05	.08	.06	.01	.02	.03												.46
Rolla School of Mines						.03	.02	.06	.03	.03	.08	.02	.04	.01												.32
Rolla 5 SE					.01	.07	.03	.09	.05	.07	.08	.05														.45
Rolla 3 W					.01	.04	.03	.07	.03	.03	.05	.04														.30
Rolla 4 SE						.03	.02	.01	.10	.05	.05	.05	.02													.33
Rolla 7 S						.03	.04	.05	.06	.02	.05	.05	.02	.01												.33
St. James 3 NW																									.02	.02
St. Joseph WB Airport									.12	.12	.04	.04	.09	.05	.06	.07										.59
St. Louis WB Airport									.03	.15	.05	.02	.09	.04	.07	.07	.03									.55
St. Louis WB City									.09	.16	.01	.04	.06	.09	.09	.07	.02									.63
St. Louis Washington Univ.								.01	.12	.09	.02	.04	.07	.05	.05	.03	.01	.01								.50
Salem		.05	.01		.02	.05	.05	.02																		.20
Seneca		.05	.01				.02	.10	.07	.02	.04															.31
Speed 2 W		.02	.01		.03	.03	.03		.01	.01																.14
Spring City		.02	.03	.02	.08	.08	.07	.05	.04	.02																.41
Springfield WB Airport 4 NW						*	*	*	*	*	*	*	*	*	*	.45										.45
Steelville		.02	.04	.01	.03			.01	.07	.04	.06	.01														.29
Steffenville									.13	.07		.09	.04	.06	.01	.01										.41
Sullivan 3 NE					.01	.05	.05	.06	.06	.04	.08	.04	.05													.44
Vichy 2 SE			*	*	*	*	*	.16	*	*	*	*	*	.47												
Vichy AP CAA 2 NW	6			.02	.01	.04	.12	.06	.10	.07	.06	.02														.50
Vienna 3 NW																										

See reference notes following Station Index.

HOURLY PRECIPITATION

Station		A. M. Hour ending												P. M. Hour ending												Total
		1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	
Villa Ridge		.01	.02	.01			.03	.02	.10	.07	.02	.05	.06	.05	.03	.01		.01								.49
Wappapello Dam									.04	.12		.09	.12	.07	.05	.06	.04	.05	.02							.66
Warrensburg 5 E							.05	.02	.01																	.08
Washington						.02	.02	.06	.10	.04	.02	.08	.04	.03	.01											.42
Wasola							.02	.05	.02	.06	.05	.01	.06	.02	.01											.30
West Plains							.07	.04		.02	.10	.12	.11		.01	.03	.01	.03	.03	.02	.03			.01		.63
Williamsburg				.01	.02	.05	.09	.08	.05	.05	.05	.01		.01	.01											.43
Willow Springs							.07	.05	.01	.02	.06	.08	.01	.01	.07	.03	.01	.02	.01							.45
-10th-																										
Columbia WB Airport	6		*	*	*	*	*	.02																		
New Florence AP 1 SE						.01																				.01
St. Joseph WB Airport		.01																								.01
-11th-																										
Ellington																							.01	.02	.01	.04
-12th-																										
Advance AP					.02	.02		.01	.02						.01			.01	.01	.01						.11
Alton 6 ENE				.06	.04	.02	.03	.05	.05	.03	.02	.12	.07	.01	.02	.02	.01	.01	.01							.57
Belleview								.03								.01	.01									.05
Bolivar														.01		.01	.01	.01								.04
Cap Au Gris Lock & Dam 25							.01									.01	.02	.01								.05
Cassville Ranger Station									.06	.08	.01		.01	.01	.01											.18
Clearwater Dam Site					.01	.01	.02		.01	.01				.01	.03	.03	.01		.01	.01						.16
Columbia WB Airport	6														*	*	*	*	*	.03						
Columbia WB City														.01	.02											.03
Columbia Univ. of Missouri														.03												.03
Dora			.05	.07	.03	.05	.09	.12	.04		.09	.11	.03													.68
Ellington						.05	.01		.02	.01				.01	.03	.01	.01									.15
Eminence				.01	.04	.04	.03	.02	.03	.01				.02	.01	.01	.01									.23
Farmington						.02	.01	.01																		.04
Forsyth			.05	.04	.04	.04	.02	.01		.05	.04	.01														.30
Fulton															.01		.01		.01							.03
High Point 2 NE																								.01	.02	.03
Hornersville			.01	.03	.06	.03	.02	.02	.02									.01	.01			.01				.22
Houston				.05	.06	.04	.03	.02	.01																	.21
Jefferson City Radio KWOS														.01		.01								.01	.02	.05
Jewett							.01	.02							.01	.04	.02	.01	.02	.01						.14
Joplin AP CAA	6								*	*	*	*	*	.06	*	*	*	*	*	.02						
Kansas City 75th & Holmes													-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lakeside															.01											.01
Lampe 4 NNE			.04	.04		.02	.01	.01	.03	.09	.01				.02											.27
Lebanon														.02	.01	.01	.01	.01								.06
Lecoma 3 N					.04	.06	.02	.02	.01																	.15
Livonia																						.01				.01
Lockwood													.01	.01	.02			.01								.05
Malden			.02	.05	.05	.03	.02	.01	.01										.02	.01	.01					.23
McCredie																.03	.01									.04
McCredie Exp. Sta.														.02												.02
Mora													.02	.01	.01											.04
Mountain Grove				.02	.04	.05	.02	.03				.01	.01													.18
New Florence AP 1 SE														.01	.01	.01	.01									.04
Osceola													.02	.02												.04
Owensville		*	*	*	*	*	*	.04																		.04
Potosi					.04	.02	.02	.01	.01									.01								.11
Richwoods						.01	.04	.02	.01																	.08
Rogersville			.03	.02	.02	.01							.01	.02	.01	.02	.01		.01							.16
Rolla School of Mines						.02	.02	.02	.02																	.08
Rolla 5 SE					.01	.05	.02	.03																		.11
Rolla 3 W					.01	.04		.03	.01																	.09
Rolla 4 SE					.02	.04	.03																			.09
Rolla 7 S					.03	.05	.01	.01																		.10
St. James 3 NW					.01	.04		.02	.01																	.08
St. Louis WB Airport						.01	.03	.01	.05																	.10
St. Louis WB City							.03	.03	.03	.03									.01							.13
St. Louis Washington Univ.							.04	.03	.03	.04																.14
Salem					.02	.06	.02	.02	.04	.02																.18
Seneca									.02	.01	.03	.01														.07
Speed 2 W													.04	.01												.05
Spring City													.01	.01										.01	.01	.04
Springfield WB Airport 4 NW												.01	.02	.01	.01			.01								.06
Steelville					.02	.02	.03	.01	.02																	.10
Sullivan 3 NE						.03	.02	.02																		.07
Vichy 2 SE					.02	.04																				.06
Vichy AP CAA 2 NW	6		*	*	*	*	*	.08							*	*	*	*	*	.03						
Vienna 3 NW				.02	[illegible]	.01																				.05
Villa Ridge							.02	.04																		.06
Wappapello Dam			.01	.01	.02	.01	.01	.02	.01	.01				.02			.02	.01	.01							.16
Washington							.04	.02																		.06
Wasola				.07	.05	.07	.06	.02		.01	.05	.02														.35
West Plains			.07	.09	.10	.03	.10	.09	.04	.03	.07	.16	.17	.05	.01											1.01
Williamsburg																.02	.01	.01								.04
Willow Springs					*	*	*	*	.35			.01	.01		.01	.01	.01									.40
-13th-																										
High Point 2 NE		.01																								.01
Salem		.01	.01																							.02
Spring City					.01																					.01
-15th-																										
Alton 6 ENE																									.10	.10
Hornersville																								.01	.32	.33
West Plains																									.10	.10
-16th-																										
Advance AP			.30	.01	.01	.02	.02	.09	.01	.07	.08	.09	.02					.06								.78
Alton 6 ENE		.14	.01	.04	.01		.08	.12	.10	.04	.02	.01		.01												.58
Ashton 1 W									.02	.02			.16	.02												.22
Bedford												.13	.02													.15
Belleview						.11	.01	.02	.01			.02	.01	.01	.01											.20
Cap Au Gris Lock & Dam 25										.01					.06											.07
Cassville Ranger Station																				.02						.02
Chillicothe AP CAA	6								*	*	*	*	*	.17												
Clarksville Lock & Dam 24	//									.01		.01		.11	.25											.38
Clearwater Dam Site			.18	.02	.06	.06	.02	.02	.04	.02	.03	.03	.01													.49
Columbia WB Airport	6								*	*	*	*	*	.05												
Columbia WB City													.01													.01
Columbia Univ. of Missouri									.02		.02		.13													.17
Dora		.02	.07	.09									.01	.01												.20

See reference notes following Station Index.

Table 4-Continued

HOURLY PRECIPITATION

MISSOURI
NOVEMBER 1948

Station	A. M. Hour ending												P. M. Hour ending												Total
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	
Downing											.03	.02													.05
Ellington	.02	.37	.01	.15	.01	.03	.02	.03	.03	.01	.09														.77
Eminence			.16	.04	.03	.01		.02	.01	.01															.28
Farmington					.09	.01		.01		.02	.03	.02			.07										.25
Forsyth		.04	.01																						.05
Fulton												.01	.04												.05
Hamden							.03	.01	.01																.05
Harris										.10	.20														.30
Hornersville	.07	.01	.01		.01		.03	.06	.02																.21
Houston		.04	.05	.01																					.10
Jefferson City Radio KWOS									.01	.02															.03
Jewett	.01	.19	.22	.05	.08	.06	.02	.03	.02	.07	.02	.01	.01		.01	.03									.83
Joplin AP CAA 6		*	*	*	*	*	.02																		
Kansas City WB Airport		.02				.01																			.03
Kansas City St. John & Elmwood			.01	.01																					.02
Kansas City 37th & Raytown Rd.		.01	.02																						.03
Kansas City Univ. of K. C.					.02	.02																			.04
Kirksville AP CAA							.03	.02		.01	.01	*	*	.12											.19
Lakeside												.02													.02
Lampe 4 NNE		.03																							.03
Linneus											.15														.15
Livonia											.10	.07		.01	.01	.01									.20
Lucerne										.20	.22		.06		.01										.49
Macon						.01	.01	.02		.01		.10													.15
Malden												.01	.17	.06		.01	.01	.01	.04	.02	.04	.01	.01	.01	.40
Marshall AP CAA							.03			.04	.03														.10
McCredie									.04			.06													.10
McCredie Exp. Sta.												.02	.02												.04
Mora							.02				.01	.02													.05
Mountain Grove		.01	.01	.01	.01																				.04
Nevada						.01																			.01
New Florence AP 1 SE									.01																.01
Pattonsburg							.01	.04	.35	.05															.45
Perry												.01	.03												.04
Polo										.09															.09
Potosi					.24	.01				.01	.01														.27
Ridgeway								.06	.04	.01	.03	.04													.18
St. Joseph WB Airport								.07																	.07
St. Louis WB Airport							.02			.05	.05			.16											.28
St. Louis WB City							.01			.01	.03	.01			.03										.09
St. Louis Washington Univ.									.04	.04	.03				.08										.19
Salem				.04																					.04
Speed 2 W											.35	.01													.36
Stanberry									.05																.05
Steffenville								.01	.01			.25	.01												.28
Sullivan 3 NE											.01	.01	.02												.04
Trenton										.09	.03														.12
Villa Ridge										.01	.01	.01		.02											.05
Wappapello Dam	.01	.17	.01	.02	.01	.10	.04	.01	.09	.08	.13	.01													.68
Washington									.01	.02		.01		.26											.30
Wasola	.02	.08																							.10
West Plains	.07	.07	.06	.01	.02																				.23
Williamsburg												.03	.05												.08
Willow Springs		.03	.08				.02																		.13

—18th—

Station	A. M. Hour ending												P. M. Hour ending												Total
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	
Advance AP																.24	.12	.31	.73	.16	.13	.01	.03		1.73
Alton 6 ENE															.02	.71	.26	.13	.01		.05		.01		1.19
Appleton City																	.09								.09
Ashton 1 W																				.01	.10	.04		.04	.19
Bedford																				.09	.01			.01	.11
Belleview																.01	.05	.35	.10	.08		.01			.60
Bolivar																	.18								.18
Cap Au Gris Lock & Dam 25											.01									.03					.04
Chillicothe AP CAA 6																				*	*	*	*	*	
Clearwater Dam Site																.07	.91	.23	.11	.03				.02	1.37
Clinton																		.05			.06				.11
Columbia WB Airport 6																				*	*	*	*	*	
Columbia WB City																					.11	.15	.09		.35
Columbia University of Mo.																			.02	.03	.08	.01		.01	.15
Dora																.02	.04								.06
Downing																					.16	.20		.01	.37
Ellington								.01		.01				.01		.01	.45	.20	.09		.02			.02	.82
Eminence															.01	.05	.22	.18	.03	.01	.07	.02	.26	.06	.91
Farmington																.01	.01	.89	.20	.05	.01	.01			1.18
Forsyth																				.08					.08
Hamden																		.01	.02	.05	.07		.02		.17
High Point 2 NE																			.10	.38	.02				.50
Hornersville																.04	.10	.15	.24	.17	.20	.04		.02	.96
Houston																.10	.02								.12
Kansas City WB Airport																							.01	.08	.09
Kansas City St. John & Elmwood																								.03	.03
Kansas City 37th & Raytown Rd.																							.02	.02	.04
Kansas City Univ. of K. C.																								.02	.02
Kirksville AP CAA																			.04	.49	.27	.04	.03	.02	.89
Lakeside																	.01	.01	.11	.30					.43
Lampe 4 NNE																		.22	.01						.23
Lebanon																						.13	.35		.48
Lecoma 3 N																	.05	.02							.07
Linneus																			.01	.05	.01		.01	.01	.09
Livonia																					.11	.17		.03	.31
Lucerne																							.02	.02	.04
Macon																			.05	.49	.21	.02	.05		.82
Malden															.04		.24	.21	.50	.51	.15	.08	.01	.01	1.75
Marshall AP CAA																		*	*	*	*	*	*	.54	.54
Maryville 6 NNW																					.03			.01	.04
McCredie																			.01			.01			.02
Mora																			.53				.01	.02	.56
Mountain Grove										.01					.01	.18	.01								.21
New Florence AP 1 SE																				.01		.01			.02
Osceola																				.02	.13				.15
Owensville																		.03							.03
Perry																								.01	.01
Polo																			.11						.11
Potosi																		.20	.16	.03					.39
Richwoods																			.18	.03				.08	.29
Ridgeway																								.01	.01
Rogersville															.05	.07			.02	.09				.01	.24
Rolla School of Mines																	.05	.03	.01					.01	.10
Rolla 5 SE																	.04	.03							.07
Rolla 3 W																		.01	.03	.01					.05
Rolla 4 SE																	.04	.04							.08
Rolla 7 8																.03	.06	.01							.10
8t. James 3 NW																	.04	.05							.09
St. Joseph WB Airport																	.04	.01	.03				.01	.11	.20

See reference notes following Station Index.

HOURLY PRECIPITATION

Station		A. M. Hour ending												P. M. Hour ending												Total
		1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	
St. Louis WB Airport																				.01	.19	.04	.01			.25
St. Louis WB City																					.07	.04	.03			.14
St. Louis Washington Univ.																				.02	.13	.04	.03			.22
Salem													.01	.01	.01	.01		.06	.01						.02	.13
Skidmore																					.03					.03
Speed 2 W																				.04	.03					.07
Springfield WB Airport 4 NW																		.02	.18					.02	.01	.23
Stanberry																						.10			.01	.11
Steelville																		.04	.08						.06	.18
Steffenville																					.02	.01			.01	.04
Tarkio AP CAA																			.10	.25	.25	.01			.01	.62
Trenton																				.01	.01					.02
Vichy 2 SE																		.05	.04							.09
Vichy AP CAA 2 NW	6														*	*	*	*	*	.03						
Villa Ridge																				.06	.01			.01	.02	.10
Wappapello Dam									.01	.01							.01	.13	.64	.26	.13	.03				1.22
Warrensburg 5 E																			.04						.03	.07
Washington																			.02	.03			.01		.02	.08
Wasola																*	*	*	*	*	*	*	*	*	*	*
West Plains																.04	.12	.14	.02	.30	.14	.18		.04	.01	.99
Williamsburg																									.01	.01
Willow Springs																	.06	.08								.14
-19th-																										
Advance AP		.01	.01	.01																						.03
Amsterdam										.03	.03	.02	.01													.09
Appleton City												.02	.01	.01	.01											.05
Ashton 1 W		.05	.01		.01	.07	.20	.07	.06	.01																.48
Bedford		.01	.02	.11	.06	.18	.02							.01		.03	.01									.45
Belleview		.01			.04	.01																				.06
Cap Au Gris Lock & Dam 25			.02				.24	.07										.01		.01				.01		.36
Chillicothe AP CAA	6	.03	*	*	*	*	*	.55							*	*	*	*	*	.02	*	*	*	*	*	
Clarksville Lock & Dam 24	//				.02		.15	.06									.01		.01					.02	.01	.28
Clearwater Dam Site		.01	.01	.01																						.03
Clinton		.03	.02									.03														.08
Columbia WB Airport	6	.25	*	*	*	*	*	.24							*	*	*	*	*	.05	*	*	*	*	*	
Columbia WB City				.02	.06	.17										.01	.01	.01	.01	.01	.01	.01	.01	.01		.34
Columbia University of Mo.				.10	.05	.02				.01										.01	.01					.20
Downing		.08			.03	.42	.13	.05	.08	.01																.80
Ellington		.03	.03	.01	.01																					.08
Eminence		.01	.01	.01	.03																					.06
Farmington						.04																				.04
Fulton					.08	.09										.01		.01	.01							.20
Grant City			.03	.12	.08	.14	.05		.03																	.45
Hamden		.01		.12	.06	.09	.08	.01	.01						.01		.01	.02	.01			.01		.01		.45
Harris				.10	.15	.05	.05	.05																		.40
High Point 2 NE			.34	.06	.05																					.45
Hornersville		.04	.02	.01																						.07
Jefferson City Radio KWOS				.01	.09																					.10
Jewett																		.02	.56	.11	.07					.76
Kansas City WB Airport		.01	.02	.01															.01		.01					.06
Kansas City St. John & Elmwood			.01																							.01
Kansas City 75th & Holmes		-	-	-	-	-	-	-	-	-																-
Kansas City 37th & Raytown Rd.			.01																							.01
Kansas City Univ. of K. C.		.04	.02	.01															.02	.01						.10
Kirksville AP CAA			.04	.10	.45		.02	.01			.01	.01		.01	.01		.01									.67
Lakeside			.30	.02																						.32
Lebanon			.01											.01												.02
Lecoma 3 N				.08	.16																					.24
Linneus		.01	.10	.21	.08	.16									.01	.02	.01	.01								.61
Livonia		.01	.01	.10	.20	.55	.02	.01	.01						.01											.92
Lucerne		.01	.02	.13	.26	.20		.06																	.02	.70
Macon			.01	.01	.20		.14										.01			.01	.02					.40
Malden			.06	.01																						.07
Marshall AP CAA		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.34			.34
Maryville 6 NNW		.05	.08		.08	.18																				.39
McCredie		.01			.01	.11									.02	.01	.02					.01		.01		.20
McCredie Exp. Sta.					.06	.04	.02								.01	.01	.02	.01								.17
Mora		.21	.03	.01	.01			.01				.01														.28
Nevada										.01	.03															.04
New Florence AP 1 SE					.05	.08	.05								.01	.01										.20
Owensville			.01		.01	.03		.01							.03											.09
Pattonsburg		.01	.04	.10	.05	.10		.03																		.33
Perry		.01	.01						*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Polo		.01	.01	.05	.06	.01									.01	.01				.01		.01				.18
Potosi		.01				.02																				.03
Richwoods		.04	.01	.01		.06	.02																			.14
Ridgeway		.01	.01	.08	.14	.08	.04																			.36
Rolla School of Mines					.08									.04	.01	.01										.14
Rolla 5 SE					.24																					.24
Rolla 3 W						.03	.03																			.06
Rolla 4 SE					.25																					.25
Rolla 7 S				.01	.09																					.10
St. James 3 NW					.15									.02												.17
St. Joseph WB Airport		.19		.08	.02															.01						.30
St. Louis WB Airport								.04																		.04
St. Louis WB City							.01	.05										.01	.01							.08
St. Louis Washington Univ.				.01		.01	.01	.01		.01									.01							.06
Salem			.01	.03	.04																					.08
Skidmore		.06	.30	.03	.13	.10					.01	.01							.01							.65
Speed 2 W		.05	.19	.10	.05		.01											.01								.41
Spring City								.02			.01															.03
Springfield WB Airport 4 NW													.01													.01
Stanberry		.03	.04	.03	.05	.16																				.31
Steelville		.02				.06																				.08
Steffenville		.01			.01	.34	.01	.10																		.47
Sullivan 3 NE												.09	.02													.11
Tarkio AP CAA		.15	.21	.05	.13	.17	.04					.01							.04	.01						.81
Trenton		.01	.01	.21	.10	.13	.04		.01																	.51
Vichy 2 SE					.20									.03	.03											.26
Vichy AP CAA 2 NW	6		*	*	*	*	*	.21							*	*	*	*	*	.06						
Vienna 3 NW				.17							.01			.01												.19
Villa Ridge					.01	.34																				.35
Wappapello Dam		.06	.05	.02																						.13
Warrensburg 5 E		.02	.03	.01								.02			.01	.02										.11
Washington		.01				.14	.02																			.17
Wasola		*	*	*	*	*	.12																			.12
Williamsburg		.01		.01	.05	.07			.03												.01	.01	.01	.01		.21
-20th-																										
Cap Au Gris Lock & Dam 25		.01	.01																							.02
Chillicothe AP CAA	6	.02																								
Clarksville Lock & Dam 24	//	.01	.01																							.02
Columbia WB Airport	6	.04																								

See reference notes following Station Index.

HOURLY PRECIPITATION

Station		A. M. Hour ending												P. M. Hour ending												Total
		1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	
Hamden		.01	.01																							.02
Lucerne		.01																								.01
Macon		.01	.01																							.02
Malden																			-	-	-	-	-	-	-	-
McCredie			.01		.01																					.02
Middletown 2 SW		-	-	-	-	-	-	-	-	-	-															-
Steffenville				.01	.01																					.02
Williamsburg		.01																								.01
Willow Springs																.05										.05
—21st—																										
Alton 6 ENE						*	*	*	*	*	*	*	*	*	*	*	.26									.26
Belleview						.04																				.04
Cassville Ranger Station						.03	.04																			.07
Clearwater Dam Site														.01	.10	.07	.01		.04	.01						.24
Ellington														.08	.02				.01							.11
Hornersville															.01	.02		.01	.01	.01						.06
Houston										.10	.06															.16
Jewett															.01	.03	.06		.04	.02	.01					.17
Joplin AP CAA	6		*	*	*	*	*	.06																		
Lebanon											.01	.01														.02
Lecoma 3 N						.01					.03	.03														.07
Mountain Grove									.01	.03	.06															.10
Owensville											.03		.02					.01	.01							.07
Perry		*	*	*	*	*	*	*	*	*	*	*	*	*	.02											.02
Potosi										*	*	*	*	*	*	*	.05									.05
Richwoods												.01	.03	.01	.09	.05	.05									.24
Rogersville							.01	.02	.01																	.04
Rolla School of Mines											.02	.03														.05
Rolla 5 SE											.03	.05														.08
Rolla 3 W											.01	.02														.03
Rolla 4 SE											.03	.05														.08
Rolla 7 S											.03	.04														.07
St. James 3 NW											.03	.02														.05
St. Louis WB Airport												.01	.01					.01								.03
St. Louis WB City															.01	.04	.01	.02								.08
St. Louis Washington Univ.																.01	.02	.01								.04
Salem										.03	.02	.07			.01	.02										.15
Spring City					.05	.01																				.06
Springfield WB Airport 4 NW							.03																			.03
Steelville											.01	.04														.05
Sullivan 3 NE												.01	.02		.01											.04
Vichy 2 SE										.02	.03	.01	.02													.08
Vichy AP CAA 2 NW	6								*	*	*	*	*	.05												
Vienna 3 NW		*	*	*	*	*	*	*	*	*	*	*	.05													.05
Villa Ridge											.02	.02	.02													.06
Wappapello Dam																								.01		.01
Washington											.04	.02	.02													.08
West Plains											.01	.01														.02
Willow Springs										.03																.03
—22d—																										
Hornersville		.01	.03	.01																						.05
Richwoods		.01							.02																	.03
Wappapello Dam			.01	.01																						.02
—25th—																										
Alton 6 ENE																								*	*	*
Belleview																					.04					.04
Dora																									.16	.16
Eminence																									.05	.05
Farmington																								.01	.02	.03
Grant City									.01	.02	.02															.05
Maryville 6 NNW										.03	.05	.01		.01												.10
Skidmore										.02	.03															.05
Tarkio AP CAA										.02	.04	.03														.09
West Plains																									.05	.05
Willow Springs																								.16	.04	.20
—26th—																										
Advance AP			.01	.17	.23	.02										.05	.02									.50
Alton 6 ENE		*	*	*	*	*	*	.25																		.25
Belleview		.08	.03																							.11
Clearwater Dam Site		.09	.29	.02	.06																					.46
Dora		.01	.01																							.02
Ellington		.30	.10																							.40
Eminence		.42	.01																							.43
Farmington		.12	.10																							.22
Hornersville						.04	.06		.02								.01	.02								.15
Jewett		.01	.29	.02																						.32
Wappapello Dam				.43	.10											.04										.57
West Plains		.22		.06																						.28
—27th—																										
Cassville Ranger Station																				*	*	*	*	*	*	*
Chillicothe AP CAA	6																				*	*	*	*	*	
Hornersville																							.02	.02	.03	.07
Kansas City WB Airport																						.02	.03	.07	.03	.15
Kansas City St. John & Elmwood																				*	*	*	*	*	*	*
Kansas City 75th & Holmes																				*	*	*	*	*	*	*
Kansas City 37th & Raytown Rd.																								.09	.05	.14
Kansas City Univ. of K. C.																						.06	.02	.08	.10	.26
Pattonsburg																									.02	.02
Polo																									.01	.01
St. Joseph WB Airport																							.02	.01	.01	.04
Skidmore																						.01	.01	.04		.06
Tarkio AP CAA																						.01	.03	.01	.01	.06
—28th—																										
Advance AP		.01	.03	.01	.01						.02	.12	.02			.01	.05	.04	.04	.03						.39
Alton 6 ENE										.02	.07	.01	.01	.01	.01		.01		.01							.15
Bolivar												.01	.01													.02
Cassville Ranger Station		*	*	*	*	*	*	*	*	*	*	*	*	.61												.61
Chillicothe AP CAA	6	.04	*	*	*	*	*	.04																		
Clearwater Dam Site										.01		.02		.01		.02	.03		.01							.10
Clinton								.01	.01																	.02
Dora							.01			.05	.01	.01	.01	.01		.01	.02	.03								.16
Ellington														.01	.06	.04	.02									.13
Eminence								.02	.01			.01		.01	.03	.02		.01	.02		01					.14
Farmington													.01	.01	.02											.04
Forsyth						.04	.05	.07	.08	.05	.07	.02	.02													.40

See reference notes following Station Index.

HOURLY PRECIPITATION

Station	A. M. Hour ending												P. M. Hour ending												Total
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	
Hamden	.03	.01	.01																						.05
High Point 2 NE									.01																.01
Hornersville	.06	.03	.03	.01						.02		.02	.02	.01	.06	.04	.02	.04	.04	.03	.01				.44
Houston						.02	.04	.03	.01				.01												.11
Jewett													.02	.03	.06	.05	.01								.17
Joplin AP CAA 6		*	*	*	*	*	.16	*	*	*	*	*	.05												
Kansas City WB Airport		.06	.01	.04		.01																			.12
Kansas City St. John & Elmwood	*	*	*	*	*	.18																			.18
Kansas City 75th & Holmes	*	*	*	*	*	.44																			.44
Kansas City 37th & Raytown Rd.	.06	.02		.02		.02																			.12
Kansas City Univ. of K. C.	.09	.06	.03	.01	.01																				.20
Lampe 4 NNE		.01		.01	.02	.09	.06	.06	.07	.04	.05	.02		.01											.44
Lockwood						.04	.09	.02	.01		.04	.04	.01												.25
Macon	.01	.02																							.03
Mora										.01	.01														.02
Mountain Grove						.02	.09	.01	.01	.02	.01		.05												.21
Pattonsburg	.01	.01									.01														.03
Polo	.03	.02																							.05
Potosi												.01	.01												.02
Ridgeway			.01	.01																					.02
Rogersville				.01	.05	.06	.07	.02		.01	.02	.01	.01												.26
St. Joseph WB Airport	.01																								.01
St. Louis WB Airport											.02														.02
St. Louis WB City													.03												.03
St. Louis Washington Univ.												.01	.02												.03
Salem													.01	.01											.02
Seneca			.03	.11	.11	.04	.03	.03	.07	.06	.02														.50
Spring City		.04	.05	.12	.11	.08	.03	.05	.06	.04	.01	.01	.02			.01									.63
Springfield WB Airport 4 NW				.02	.05	.04	.05	.01																	.17
Sullivan 3 NE												.01	.01	.01	.01										.04
Trenton	.01	.02									.02														.05
Wappapello Dam	.01	.01	.02							.03	.17	.03		.02	.02	.04	.04	.03	.06	.05		.01			.54
Washington											.02														.02
Wasola		*	*	*	*	*	*	*	*	*	*	*	*	*	*	.46									.46
West Plains								.01	.02	.06	.01	.02	.03		.01	.03	.03								.22
Willow Springs						.02	.01	.02	.02	.01	.01	.05			.01	.03	.01	.01							.20
–29th–																									
Wappapello Dam	.01																								.01
–30th–																									
Malden	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Moberly AP 4 NE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

DAILY TEMPERATURES

Table 5

Station		Day of month																														Average
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Advance AP	MAX	72	66	67	76	64	64	63	66	56	52	64	51	56	68	70	64	61	61	61	55	58	50	46	53	65	61	54	46	49	56		59.8
	MIN	53	58	57	57	48	38	31	34	34	29	26	44	34	30	32	42	32	39	35	32	30	26	25	25	32	38	31	33	27	25		35.9
Albany	MAX	65	64	64	70	61	59	59	52	50	48	51	56	51	61	74	60	63	65	62	39	40	37	50	44	53	58	48	42	50	46		54.7
	MIN	41	55	46	50	47	41	27	40	35	25	33	27	20	35	30	43	30	45	37	32	30	25	23	29	39	29	20	28	16	22		33.3
Amity	MAX	66	62	62	68	59	57	56	55	48	48	51	58	50	60	71	63	61	70	62	37	41	36	48	45	51	54	46	44	48	41		53.9
	MIN	45	53	49	49	44	41	29	41	33	23	31	32	22	34	38	43	33	45	35	30	27	19	22	29	37	29	26	26	19	23		33.6
Anderson 2 SW	MAX	82	74	62	71	80	59	60	67	67	50	55	66	50	64	67	75	75	72	75	34	52	48	42	54	49	69	57	49	40	52		60.6
	MIN	62	52	58	58	45	36	24	27	34	20	21	22	29	28	30	31	25	25	34	26	26	18	13	14	28	33	23	32	13	14		30.0
Appleton City	MAX	64	61	64	80	72	60	61	61	55	51	65	55	55	65	72	65	69	74	56	43	40	39	52	45	53	54	43	48	55	52		57.6
	MIN	55	57	55	52	52	42	29	43	32	25	29	44	23	34	34	41	29	50	31	31	26	20	18	26	33	34	26	32	17	23		34.8
Arcadia	MAX	77	69	78	85	83	80	77	65	70	70	60	64	69	65	65	70	65	63	60	47	52	48	47	47	55	65	55	73	40	50		63.8
	MIN	45	50	55	52	53	47	29	29	38	28	28	35	32	31	30	29	28	34	45	31	25	25	25	24	27	37	30	24	23	23		33.7
Bethany	MAX	64	62													72	63	61	64	64	40	35	36	48	42	49	52	53	48	47	40		
	MIN	40	54													21	42	30	48	38	32	29	25	22	26	27	28	19	27	15	23		
Birch Tree	MAX	69	64	63	72	72	62	65	64	55	50	65	56	58	63	69	72	64	60	59	51	48	48	48	55	72	61	50	50	48	58		59.7
	MIN	51	56	56	54	49	47	26	33	32	24	24	42	30	38	31	54	28	47	34	34	28	26	16	24	29	45	26	32	22	19		35.2
Bolivar	MAX	68	61	62	78	71	59	63	64	61	50	63	56	56	65	72	68	65	74	61	45	45	40	51	40	64	53	49	47	49	55		58.5
	MIN	55	55	55	54	45	45	34	43	33	29	32	44	29	41	39	52	37	49	31	31	29	22	21	30	31	33	29	32	21	27		36.9
Boonville Waterworks	MAX	66	60	57	58	72	50	55	58	60	43	42	58	50	50	60	71	61	62	64	39	34	35	28	44	40	59	49	48	40	45		51.9
	MIN	46	52	51	51	43	43	33	42	32	29	30	38	25	28	34	42	34	38	36	28	25	23	17	21	28	32	24	28	19	20		33.1
Brookfield	MAX	71	61	62	66	72	52	59	59	59	51	48	55	60	51	64	72	63	64	69	47	37	42	39	47	42	54	56	50	39	48		55.3
	MIN	42	49	54	47	46	45	29	43	36	31	31	38	25	27	28	40	32	31	42	32	32	28	20	22	32	32	24	25	18	22		33.4
Brunswick	MAX	64	61	61	62	72	64	58	58	62	48	46	54	59	58	68	78	63	75	76	53	38	41	35	48	42	58	55	51	40	48		56.5
	MIN	47	49	55	52	51	48	31	30	39	32	32	33	29	28	35	35	32	31	45	32	29	22	20	20	30	37	28	26	19	19		33.9
Butler	MAX	69	60	64	78	72	59	64	60	54	50	61	52	54	64	70	64	67	73	69	41	39	39	51	47	61	54	51	47	49	51		57.8
	MIN	55	54	54	52	45	40	29	46	31	24	28	41	23	33	34	50	31	49	30	29	24	18	18	25	34	31	27	31	16	21		34.1
Camdenton	MAX	74	61	60	80	78	65	70	68	65	51	68	60	68	67	76	77	72	72	70	48	48	44	50	50	68	60	54	48	52	57		62.7
	MIN	53	57	55	53	48	45	34	46	34	28	39	46	26	43	39	55	38	50	33	31	30	25	20	32	35	39	31	34	20	29		38.3
Campbell	MAX									59	55	63	56	55	67	70	64	64	62	60	64	59	51	47	55	65	66	66	50	47	55		59.1
	MIN									38	31	32	45	39	35	38	45	35	45	42	35	33	37	28	28	33	54	37	35	29	27		36.4
Canton Lock & Dam 20	MAX	63	60	63	70	62	56	58	68	60	45	55	54	48	54	68	62	56	60	56	39	40	37	38	44	52	48	50	43	45	42		53.2
	MIN	44	56	54	54	51	48	31	43	36	29	34	43	29	38	30	50	32	44	39	35	34	29	18	28	37	33	24	32	16	26		36.6
Caps Girardeau Mo. State	MAX	72	64	64	75	69	64	64	65	58	52	62	56	54	67	70	62	60	60	60	51	49	48	45	52	63	58	55	49	47	55		59.0
	MIN	56	59	57	57	60	42	37	43	37	32	34	44	36	37	38	50	37	48	48	38	33	35	26	27	38	54	34	33	27	29		40.9
Caplinger Mills	MAX	70	62	64	79	67	62	65	64	56	52	65	57	56	65	74	69	67	75	65	45	44	40	55	42	65	54	50	47	51	53		59.3
	MIN	54	55	55	52	46	43	30	45	33	27	34	45	24	37	34	49	31	49	32	31	33	30	19	24	34	33	22	32	20	18		35.7
Carrollton	MAX	61	60	62	73	67	57	59	60	56	45	53	55	49	62	69	62	64	66	61	38	42	36	45	42	53	50	49	47	46	45		54.5
	MIN	41	53	52	49	48	45	28	42	36	29	34	35	24	36	30	46	30	46	32	33	29	26	20	29	34	29	22	31	17	23		34.3
Carthage	MAX	70	60	70	80	69	61	66	64	59	53	64	54	65	65	73	68	72	74	61	49	44	40	54	44	66	66	49	49	51	53		60.4
	MIN	53	56	56	57	46	42	31	39	33	31	34	46	29	42	36	51	32	48	30	30	28	22	20	29	35	36	25	33	19	21		36.3
Caruthersville	MAX	77	71	69	87	76	62	65	68	65	55	64	59	56	66	71	65	64	62	61	53	60	54	49	51	68	65	58	54	47	56		62.6
	MIN	54	62	55	58	57	45	37	48	43	34	36	44	41	37	41	54	38	49	43	36	38	40	32	30	38	55	39	37	31	30		42.7
Chillicothe AP CAA	MAX	61	61	63	71	56	57	56	57	48	46	51	56	50	62	71	60	62	66	57	37	41	39	47	41	52	54	48	39	47	42		53.3
	MIN	44	56	50	51	47	45	29	40	31	28	32	33	24	34	32	35	30	45	33	32	28	22	20	29	35	28	26	21	18	22		33.3
Clearwater Dam Site	MAX	75	65	66	74	74	62	64	66	64	50	66	60	58	67	73	66	65	60	60	54	51	47	45	57	65	63	52	51	50	55		60.8
	MIN	52	60	62	53	54	49	32	33	33	28	27	44	36	31	33	34	32	45	38	36	29	30	21	24	31	50	28	33	25	23		36.9
Clinton	MAX	61	60	62	80	55	60	65	62	49	50	64	51	55	66	74	67	68	75	40	40	40	32	53	42	63	53	48	41	50	52		55.9
	MIN	54	56	54	53	47	41	32	41	33	29	31	38	28	38	36	40	34	49	32	30	26	21	18	29	37	32	29	25	19	23		35.2
Columbia WB Airport	MAX	64	59	58	77	58	58	60	63	50	44	61	51	50	62	72	65	64	65	58	36	39	30	47	40	62	52	51	42	48	49		54.5
	MIN	50	55	54	54	47	41	36	46	32	31	36	37	28	42	41	38	36	48	30	31	27	24	21	29	35	32	28	24	19	27		36.0
Columbia WB City	MAX	67	60	59	78	59	58	61	64	47	46	61	52	50	63	72	67	65	66	58	36	42	33	45	42	63	52	53	43	49	50		55.4
	MIN	51	56	54	55	48	42	33	47	32	32	35	34	28	38	38	41	37	49	31	31	29	25	22	32	37	32	28	26	20	26		36.3
Columbia Univ. of Mo.	MAX	66	61	58	78	72	57	60	63	60	45	60	54	50	62	72	65	64	66	59	37	40	34	45	40	62	52	53	47	48	49		56.0
	MIN	47	55	53	51	46	44	31	42	31	29	33	44	26	37	33	45	31	45	31	29	24	23	17	24	31	32	24	32	17	25		34.4
Conception	MAX	65	65	62	64	62	55	55	51	43	47	47	52	50	59	72	70	62	63	62	40	38	35	48	45	51	53	47	44	48	46		53.4
	MIN	47	54	46	49	45	39	31	40	32	23	31	29	21	36	38	41	34	44	39	27	27	20	22	31	38	29	25	26	21	24		33.6
Crystal City	MAX	73	65	61	78	73	62	63	67	61	50	67	61	55	67	74	72	66	62	60	48	47	42	45	57	66	64	54	47	51	56		60.5
	MIN	47	56	56	54	55	48	30	36	31	28	27	43	32	29	29	50	30	40	37	34	25	26	28	23	29	29	22	33	22	24		35.1
Doniphan	MAX	70	73	65	75	73	66	67	69	55	55	66	54	68	70	74	70	65	64	60	56	54	51	49	59	67	62	56	50	50	58		62.4
	MIN	50	58	58	55	53	48	28	31	35	25	23	44	33	29	31	53	29	41	39	36	26	30	21	24	30	45	27	32	23	20		35.9
Edgerton	MAX	75	60	61	66	60	59	59	56	55	53	51	57	58	54	64	73	59	66	68	43	36	42	39	51	52	52	57	47	43	45		55.4
	MIN	45	52	54	51	48	48	35	33	30	20	21	21	21	31	33	38	28	39	41	31	24	24	23	24	25	25	20	29	12	18		31.5
Eldon	MAX	65	61	59	78	71	59	68	64	58	47	64	56	56		74	69	66	67	62	40	44	38	48	44	65	56	48	46	49	52		57.7
	MIN	50	57	55	52	48	46	33	44	33	30	36	45	28		37	48	45	48	34	31	27	23	18	28	33	37	27	32	20	29		37.0
Elsberry	MAX	75	68	59	59	77	61	61	60	67	58	46	61	48	50	66	69	71	62	60	50	39	43	38	39	54	65	49	52	45	48		56.7
	MIN	45	50	52	50	52	46	29	38	40	25	27	37	28	32	24	37	27	40	41	30	22	23	16	22	28	33	18	31	16	20		32.6
Farmington	MAX	72	69	62	73	70	60	64	64	57	49	64	54	54	65	70	69	63	59	69	50	48	42	42	55	65	61	50	47	50	56		59.1
	MIN	49	57	55	59	54	46	34	37	32	28	32	42	32	36	33	53	31	46	34	33	27	27	22	25	33	43	25	32	22	27		36.9
Fayette	MAX	67	60	60	77	71	60	60	62	57	46	59	52	50	63	72	63	64	68	60	37	38	37	46	41	61	53	53	47	49	48		56.0
	MIN	46	56	40	52	48	45	30	44	33	31	32	42	27	37	31	45	32	48	29	31	27	25	18	26	33	36	25	33	18	27		34.9
Fulton	MAX	72	68	59	59	77	57	59	61	65	44	45	60	52	54	64	72	67	64	65	44	38	45	32	44	45	64	51	51	42	47		55.6
	MIN	45	52	54	52	52	47	29	44	38	30	31	38	29	30	30	41	34	37	40	31	25	25	18	22	28	36	27	30	18	19		34.4
Grant City	MAX	64	64	71	70	73	55	63	58	46	46	58	60	50	56	72	57	60	63	61	38	34	33	48	45	47	51	46	45	48	40		54.1
	MIN	44	43	42	40	44	43	28	39	31	22	26	33	17	33	35	34	30	45	38	29	27	20	20	25	35	29	35	20	17	24		31.6
Greenville 1 SW	MAX	71	65	63	76	74	63	67	68	59	54	66	58	59	70	74	70	62	62	58	53	59	56	48	59	68	60	56	48	52	51		61.6
	MIN	51	55	58	54	54	48	28	30	34	26	24	43	32	28	30	55	28	43	39	38	26	30	19	23	30	50	25	33	26	21		36.0
Hannibal Waterworks	MAX	65	58	56	74	60	58	58	64	55	43	54	52	48	60	72	67	63	58	58	37	41	36	42	49	60	49	50	40	45	45		53.9
	MIN	49	53	51	52	49	42	34	43	33	31	36	38	28	42	35	41	35	43	32	32	33	25	20	25	35	38	37	25	20	29		36.2

See reference notes following Station Index.

DAILY TEMPERATURES

Station		Day of month																														Average
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Harrisonville	MAX	77	59	58	63	76	54	60	63	60	51	51	61	56	53	66	70	61	66	72	41	38	41	41	51	46	52	55	42	41	41		55.5
	MIN	51	55	55	53	46	41	34	35	33	26	26	33	25	25	38	38	33	33	37	30	23	20	20	22	35	33	30	32	20	20		33.4
Jackson	MAX	75	65	65	76	70	62	66	65	59	53	64	54	56	68	70	64	62	60	60	53	58	55	45	53	64	59	56	51	47	57		60.4
	MIN	53	60	58	58	56	48	30	35	36	32	28	45	34	32	32	53	31	47	41	37	29	33	26	25	36	46	30	34	27	24		38.5
Jeff City Radio KWOS	MAX	72	61	59	78	72	59	63	65	57	47	63	53	52	65	74	68	66	65	61	39	42	34	46	44	64	51	50	48	49	50		57.2
	MIN	47	58	55	53	52	47	30	46	34	30	30	47	29	38	30	45	33	49	33	33	24	23	16	23	32	36	22	29	17	23		35.5
Joplin AP CAA	MAX	68	60	68	79	53	60	65	63	48	52	63	53	60	61	70	66	69	72	45	46	43	40	51	45	63	52	50	44	48	51		56.9
	MIN	55	55	56	52	45	40	34	40	32	29	40	41	32	43	43	39	37	45	28	27	31	21	20	28	39	37	35	25	20	25		36.5
Kansas City Univ. of K.C.	MAX	70	68	63	75	78	61	63	61	55	52	59	57	54	64	72	68	66	70	67	39	40	41	51	50	52	58	54	48	49	47		58.4
	MIN	49	54	55	51	45	40	33	38	35	27	32	44	27	39	36	46	31	50	32	30	25	21	19	33	42	34	24	29	20	26		35.6
Kidder	MAX	65	59	60	68	64	55	52	52	48	44	44	53	48	60	72	63	62	62	62	35	35	35	47	40	49	47	45	44	41	41		51.7
	MIN	47	54	49	49	45	41	31	41	34	23	32	34	21	35	35	43	32	45	34	30	27	24	20	30	36	28	26	26	18	23		33.8
Kirksville	MAX	60	59	62	71	62	55	58	53	52	43	50	54	48	59	70	58	62	65	57	34	36	35	45	39	54	53	50	41	45	41		52.4
	MIN	43	52	51	45	46	42	29	41	33	29	33	33	23	36	33	41	31	41	32	31	32	26	18	26	34	29	25	28	16	25		33.5
Kirksville AP CAA	MAX	59	60	61	70	56	55	56	57	45	42	49	54	47	58	70	59	60	65	55	37	36	36	45	40	55	53	50	36	44	45		51.8
	MIN	44	54	48	50	47	39	29	39	31	29	34	34	24	35	35	37	30	42	31	33	32	19	19	26	34	31	20	18	16	23		32.8
Koshkonong	MAX	70	69	66	77	70	62	65	66	58	52	65	57	58	68	73	73	64	66	59	52	50	49	50	57	66	62	54	50	45	55		60.9
	MIN	58	57	58	55	51	47	34	40	32	28	34	42	33	37	42	56	39	48	34	34	36	28	24	32	37	47	33	32	22	27		39.2
Lakeside	MAX	76	68	61	62	77	59	60	65	65	50	49	66	52	56	66	74	68	67	69	43	44	46	35	50	46	67	53	51	45	52		58.1
	MIN	50	54	57	51	53	49	31	36	39	34	32	38	34	36	32	36	30	35	43	34	26	28	18	22	28	34	23	25	19	23		35.0
Lamar	MAX	73	68	60	64	78	56	62	66	63	51	52	64	50	59	63	73	67	70	73	38	45	45	43	52	44	64	54	50	43	50		58.0
	MIN	53	54	54	54	44	40	32	33	31	27	27	30	26	31	37	41	32	33	35	29	28	17	18	22	32	36	27	34	16	18		33.0
Lathrop 3 SW	MAX	63	60	62	70	60	56	58	55	58	48	50	55	51	62	72	59	65	65	61	52	41	38	49	48	51	54	46	43	48	42		54.7
	MIN	51	50	52	48	45	40	31	45	35	22	33	37	21	34	37	38	32	35	34	29	27	24	22	29	36	28	30	26	24	19		33.8
Lebanon	MAX	70	61	60	75	70	58	63	63	57	49	64	57	56	65	73	71	65	70	62	47	46	41	50	46	66	58	49	46	50	55		58.8
	MIN	54	56	55	51	47	43	31	43	33	26	36	42	26	41	41	51	37	49	31	29	26	21	20	30	35	33	26	32	17	26		36.3
Lexington	MAX	67	60	59	61	76	52	57	61	59	48	49	55	56	52	64	71	61	65	68	41	38	43	38	49	44	53	53	47	40	48		54.5
	MIN	46	53	54	53	47	44	35	38	36	29	29	37	28	28	41	44	39	39	40	32	29	26	23	24	35	32	30	31	24	26		35.7
Licking 4 N	MAX		71	60	74	69	53		64	55	47	64	50		61	67	69	63		61	49	43	40	46	52	66	57		49	51	55		57.4
	MIN		58	53	50	48	43		28	34	25	32	40		27	35	45	32		31	30	25	19	30	30	29	36		23	16	19		33.5
Lockwood	MAX	67	60	68	79	67	61	65	64	55	52	64	54	59	67	72	70	69	75	59	46	45	43	53	47	65	55	50	45	50	54		59.3
	MIN	55	56	54	58	47	43	32	42	33	29	38	44	28	43	40	42	38	49	31	29	32	19	25	30	34	38	29	32	21	28		37.3
Louisiana Starks Nur.	MAX	66	64	58	77	70	59	59	66	56	44	60	51	50	64	72	70	62	59	60	39	40	40	40	51	65	57	56	48	47	49		56.6
	MIN	46	56	53	53	54	48	28	40	36	27	33	37	30	34	27	46	30	46	35	32	26	29	18	26	32	32	21	34	18	24		35.0
Macon	MAX	72	64	61	60	71	51	57	58	59	47	44	53	53	49	61	70	62	63	65	44	35	36	38	45	41	57	53	50	38	46		53.4
	MIN	45	45	52	50	49	44	34	35	35	29	30	32	24	24	34	41	33	35	42	29	31	26	16	17	19	31	26	27	15	16		32.2
Marble Hill	MAX	73	67	67	77	72	65	68	66	60	55	56	55	60	70	68	61	64	60	58	54	58	53	46	54	65	61	54	48	44	48		60.2
	MIN	48	54	57	50	47	41	37	27	28	23	22	39	28	26	25	48	25	38	34	31	23	25	26	19	30	40	21	28	20	19		32.6
Marshall AP CAA	MAX	61	59	64	76	57	58	61	60	47	48	60	52	51	63	70	62	65	66	58	38	42	34	48	42	60	55	51	40	48	47		54.8
	MIN	45	56	54	52	44	37	28	40	31	30	32	34	24	38	32	36	32	46	31	31	24	20	18	27	32	32	25	20	18	24		33.1
Marshfield	MAX	69	66	59	72	68	55	60	61	58	46	63	55	54	60	69	69	62	69	61	45	48	40	46	45	56	50	48	46	46	55		56.7
	MIN	51	53	53	52	45	43	29	45	32	26	34	41	28	41	37	51	33	48	31	29	30	24	20	30	34	37	32	31	17	24		36.0
Maryville	MAX	60	64	60	64	59	55	55	50	47	48	45	53	47	57	71	60	62	61	59	38	37	34	47	44	47	52	45	40	47	39		51.6
	MIN	48	52	48	50	45	38	29	39	32	23	29	29	19	31	35	41	30	45	38	30	27	20	23	30	38	27	27	26	18	24		33.0
Memphis	MAX	75	61	63	60	70	53	55	58	58	45	45	50	55	49	56	72	61	60	63	48	39	37	34	45	41	53	51	49	35	47		52.9
	MIN	40	44	51	47	50	44	31	30	31	27	30	32	27	25	32	34	31	32	43	31	33	26	19	23	26	30	24	29	15	19		31.9
Mexico	MAX	75	67	58	58	79	56	59	62	65	46	46	62	55	52	65	72	66	65	66	41	37	44	32	46	47	63	52	53	41	48		55.9
	MIN	40	54	53	53	52	46	32	34	38	30	34	38	27	29	33	39	34	35	41	31	27	24	18	22	32	34	25	29	17	20		34.0
Moberly AP 4 NE	MAX	74	66	59	63	62	60	58	60	61	42	45	57	58	54	62	71	62	63	68	50	47	42	38	45	58	50	53	52	42	48		55.7
	MIN	45	54	52	51	52	48	32	43	33	29	33	38	26	30	37	49	32	45	41	28	26	25	19	28	34	30	26	30	18	25		35.3
Monett	MAX	79	68	60	65	76	65	66	64	63	41	55	61	58	60	63	70	71	59	72	61	48	43	48	51	65	60	60	45	47	52		59.9
	MIN	56	55	55	55	44	39	36	35	32	29	31	42	31	43	42	44	39	41	33	32	31	22	22	20	35	32	32	16	10	20		35.1
Mountain Grove	MAX	75	72	63	72	70	57	62	63	57	47	62	57	56	63	70	71	62	62	60	49	50	46	48	49	65	58	49	47	49	57		58.9
	MIN	55	55	55	53	49	44	34	41	33	28	35	41	29	38	42	54	35	46	32	30	30	25	20	30	35	40	30	31	20	28		37.3
Mount Vernon 3 SW	MAX	68	61	66	78	71	57	64	64	55	51	62	51	59	63	72	70	69	73	61	48	46	40	52	44	66	53	49	48	46	55		58.7
	MIN	54	55	55	54	45	43	28	44	33	29	37	44	29	42	34	50	31	48	31	30	26	21	18	32	34	36	25	31	17	21		35.9
Neosho	MAX	73	61	70	79	72	60	66	65	57	54	65	58	64	66	74	69	71	74	64	49	41	42	55	68	68	66	62	58	52	56		62.6
	MIN	53	56	57	56	45	40	28	39	32	27	33	45	28	38	35	54	32	43	30	29	26	22	18	27	35	33	25	33	16	21		35.2
Nevada	MAX	70	60	66	81	76	62	67	62	54	53	64	55	58	67	71	65	69	74	65	44	44	42	53	54	64	63	51	47	50	55		60.2
	MIN	56	56	55	54	47	42	33	45	32	29	29	45	26	39	39	50	34	50	34	31	26	19	20	28	35	35	30	32	17	20		36.3
New Florence AP 1 SE	MAX	67	58	57	77	60	57	59	64	54	43	60	50	50	62	71	67	63	63	58	38	40	31	42	49	64	50	50	41	45	49		54.6
	MIN	48	56	52	52	48	43	34	43	30	27	32	39	28	39	33	37	30	45	31	29	25	22	18	25	30	32	26	23	17	27		34.0
Oregon	MAX	58	67	65	68	50	57	57	58	49	51	48	55	53	66	72	57	63	63	57	35	41	37	50	48	53	55	46	41	50	38		53.6
	MIN	50	52	47	48	44	38	37	32	32	25	29	31	22	44	42	40	36	47	32	29	27	20	26	34	40	30	32	23	23	25		34.6
Ozark Beach	MAX	82	67	69	70	78	64	64	67	69	49	56	69	50	61	70	77	77	69	74	41	56	59	49	52	50	72	59	52	42	53		62.2
	MIN	54	57	57	51	51	48	30	37	38	26	26	30	33	31	33	35	30	33	40	33	28	26	19	23	28	28	27	30	21	21		34.1
Polo	MAX	73	59	59	61	50	74	51	57	51	50	48	51	55	50	70	71	70	64	66	40	36	41	37	47	48	60	54	47	39	47		54.2
	MIN	46	49	51	50	42	41	32	44	35	26	25	33	24	29	36	31	32	31	40	30	29	26	22	27	35	29	29	27	21	24		33.2
Poplar Bluff	MAX	74	67	67	77	74	66	66	69	59	55	67	58	59	70	74	68	65	62	54	52	55	53	50	58	68	66	55	50	51	58		62.2
	MIN	52	61	52	57	54	46	30	33	37	30	28	44	38	30	33	56	32	44	42	40	37	35	26	25	32	51	33	33	28	24		38.8
Rolla School of Mines	MAX	75	68	61	65	71	60	62	64	64	40	48	65	48	54	65	72	71	69	63	42	45	41	32	45	52	66	48	50	39	49		56.5
	MIN	51	59	55	53	51	45	33	45	33	29	35	43	30	36	35	55	38	45	39	30	27	24	18	26	31	31	23	33	20	26		36.6
Saint Charles	MAX	70	64	60	76	70	61	61	68	58	48	64	55	50	65	73	66	63	60	60	42	42	41	39	55	64	56	51	47	45	52		57.5
	MIN	51	58	55	55	55	49	35	44	36	31	35	45	31	36	36	50	34	46	37	35	29	27	29	27	34	40	27	37	23	29		38.5
St. Joseph WB Airport	MAX	60	62	64	68	53	57	59	51	48	50	51	55	53	60	73	57	63	66	56	35	40	38	51	47	54	55	47	41	50	40		53.5
	MIN	46	56	52	51	46	37	30	39	34	27	32	31	24	35	34	36	32	50	33	31	29	24	25	35	38	29	25	23	22	24		34.3
St. Louis WB Airport	MAX	78	59	59	74	62	60	59	66	54	45	62	51	50	65	72	69	61	60	60	42	43	37	43	54	65	55	50	42	47	53		56.2
	MIN	[illegible]	57	55	55	53	46	38	45	35	31	38	44	33	38	36	43	38	46	35	32	29	27	27	27	33	33	28	30	23	30		37.8

See reference notes following Station Index.

DAILY TEMPERATURES

Table 5-Continued

Station		Day of month																															Average
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
St. Louis WB City	MAX	69	60	59	72	63	59	60	65	54	45	64	53	50	64	71	68	62	60	59	42	43	39	38	55	64	55	52	43	47	53		56.3
	MIN	55	55	55	57	53	50	43	45	34	34	40	45	34	41	42	46	42	46	37	35	34	31	29	30	38	41	33	33	26	35		40.6
St. Louis University	MAX	69	59	59	73	63	59	58	64	54	45	62	50	51	64	71	69	61	60	59	43	44	39	37	53	64	55	52	44	46	52		56.0
	MIN	54	57	55	56	53	49	42	45	33	33	39	41	34	42	41	45	42	46	37	35	34	30	29	29	37	40	32	32	26	35		40.1
St. Louis Wash. Univ.	MAX	71	70	59	60	74	60	60	60	66	50	47	61	49	49	65	71	68	63	60	51	42	43	36	39	53	62	48	50	41	46		55.8
	MIN	50	53	55	54	55	49	37	41	46	30	34	43	32	35	34	43	35	44	45	34	28	28	29	26	31	39	29	33	23	25		38.0
Salem	MAX	75	68	67	61	75	60	59	63	65	44	47	65	47	55	64	72	72	63	60	43	49	42	42	43	55	66	49	50	38	51		57.0
	MIN	48	58	55	50	50	45	29	30	43	28	29	31	31	35	33	39	32	42	39	31	26	25	18	27	30	39	22	25	20	24		34.5
Salisbury	MAX	63	61	62	75	66	60	58	61	57	46	58	52	50	63	71	62	65	70	59	37	39	35	47	41	59	53	52	46	47	49		55.5
	MIN	45	56	54	51	49	40	31	44	34	32	33	40	26	39	42	43	33	46	32	32	30	27	20	29	34	36	27	29	19	25		35.9
Saverton Lock & Dam 22	MAX	64	64	60	75	75	56	57	65	59	44	55	53	50	54	71	61	62	56	61	39	42	41	41	49	62	53	51	49	46	44		55.3
	MIN	45	53	50	50	51	46	33	43	43	30	31	40	27	34	29	31	34	42	32	30	27	28	18	23	31	35	23	31	17	29		34.5
Sedalia	MAX	65	61	60	78	69	58	62	62	58	46	62	57	52	63	72	66	66	69	62	37	39	38	48	44	60	54	50	47	48	48		56.7
	MIN	55	58	55	53	49	45	33	48	33	29	34	46	26	40	40	48	35	49	33	31	27	25	21	29	35	34	30	33	20	27		37.4
Seligman	MAX	69	61	66	77	70	58	65	65	59	52	63	52	64	65	74	68	67	73	66	50	48	41	52	44	67	65	53	46	46	48		59.8
	MIN	57	51	58	58	44	40	37	45	32	28	41	41	34	44	42	49	37	51	29	25	34	22	31	34	37	39	34	30	16	28		38.3
Seymour 4 NNE	MAX	75	62	68	61	72	58	56	59	61	43	60	61	47	59	62																	
	MIN	53	54	54	55	49	43	29	44	33	25	28	41	27	29	34																	
Shelhina	MAX	64	60	59	72	65	57	59	61	58	44	56	53	49	61	70	64	62	65	59	36	38	37	45	42	58	54	51	44	46	46		54.5
	MIN	45	54	51	51	49	45	30	41	34	38	32	37	26	35	34	42	31	44	32	30	33	27	19	26	34	33	25	28	17	25		34.9
Sikeston	MAX	75	75	66	65	76	63	63	65	67	59	54	64	54	55	68	72	63	62	61	50	54	61	51	46	54	67	63	54	45	48		60.7
	MIN	53	54	56	57	58	46	35	37	42	32	33	35	35	34	38	41	35	36	46	38	33	37	27	28	33	38	33	34	29	29		38.7
Springfield WB Apt. 4 NW	MAX	65	65	61	76	56	57	61	63	46	49	62	50	58	61	71	67	64	71	49	47	44	38	52	40	65	51	49	43	48	54		56.1
	MIN	56	55	54	52	45	42	34	45	31	29	33	43	30	36	39	40	34	49	30	30	30	23	21	30	36	36	30	25	20	27		36.2
Steffenville	MAX	64	62	59	71	69	57	58	60	57	44	52	53	48	59	70	66	62	63	58	38	38	36	43	45	57	52	49	44	46	45		54.2
	MIN	45	55	52	51	50	46	31	31	34	29	33	35	27	36	32	43	32	41	37	31	31	29	18	26	34	33	25	30	17	26		34.7
Sweet Springs	MAX	61	61	61	77	71	60	63	62	56	49	60	53	52	65	72	65	61	69	62	39	42	38	50	44	63	54	51	47	50	48		56.8
	MIN	42	52	56	52	48	44	26	47	34	28	31	41	24	38	30	45	31	43	33	32	26	24	17	27	31	31	21	32	16	21		34.1
Tarkio AP CAA	MAX	62	68	63	60	52	57	56	48	48	49	44	54	49	60	73	57	63	60	52	33	38	36	45	46	42	42	36	39	50	39		51.7
	MIN	39	44	41	50	45	35	26	36	31	24	28	26	20	30	34	32	31	47	32	30	28	21	25	34	34	24	22	22	21	22		31.1
Trenton	MAX	68	62	62	68	65	58	59	57	51	46	50	56	50	62	73	69	61	67	60	40	39	38	47	41	50	55	48	41	48	42		54.4
	MIN	45	44	50	49	50	44	31	44	32	28	34	36	24	38	33	40	33	47	40	34	32	27	22	33	36	30	26	28	19	27		35.2
Union 2 SE	MAX	72	66	59	78	72	59	61	67	56	45	63	55	51	64	73	72	65	61	60	43	40	35	43	54	66	60	51	48	47	53		58.0
	MIN	45	57	55	54	53	48	29	37	35	29	28	43	30	33	28	46	30	41	36	33	23	25	24	23	28	34	20	33	20	21		34.7
Unionville	MAX	72	61	61	58	67	51	55	56	51	46	44	46	54	51	57	71	57	59	63	46	42	36	33	45	41	48	47	45	35	45		51.4
	MIN	42	44	50	44	48	41	27	35	33	25	28	28	22	28	30	41	26	32	44	32	31	25	19	26	31	28	24	26	15	22		31.6
Vandalia	MAX	68	64	62	77	70	57	58	65	60	44	59	51	50	61	71	65	63	63	56	37	41	40	43	48	63	56	53	47	47	48		56.2
	MIN	47	52	48	53	53	41	31	39	34	28	33	41	26	34	28	35	33	43	33	31	26	23	18	24	31	33	31	32	16	23		34.0
Vichy AP CAA 2 NW	MAX	70	59	58	74	59	59	62	63	55	44	63	48	52	63	70	71	62	64	57	43	40	30	45	50	65	50	50	39	48	53		55.5
	MIN	52	55	52	54	48	41	35	45	32	29	38	42	28	42	44	40	38	50	32	29	27	22	18	32	37	34	29	24	18	28		36.5
Wappapello Dam	MAX	76	71	66	66	75	65	67	63	67	50	53	64	50	57	69	72	64	61	61	51	55	56	49	45	57	66	62	55	44	50		60.2
	MIN	54	57	58	57	58	47	36	38	45	30	31	44	37	36	38	43	34	43	44	37	31	34	25	25	32	42	33	41	28	27		39.5
Warrensburg Central T.C.	MAX	64	60	61	77	72	59	62	61	56	48	60	56	51	65	70	65	66	70	64	38	42	40	48	47	61	53	50	42	47	49		56.8
	MIN	51	56	55	53	47	43	35	48	33	28	35	47	28	40	43	49	44	51	32	32	28	25	21	30	36	35	31	22	23	30		37.7
Warrenton	MAX	67	64	57	78	60	v60	60	66	58	46	62	52	52	65	74	70	64	61	60	40	41	39	44	53	66	52	50	42	47	53		56.8
	MIN	44	57	53	52	53	46	31	43	35	27	32	44	29	36	32	48	33	45	34	32	25	21	19	24	30	32	24	33	17	26		35.2
Warsaw No. 1	MAX	75	62	63	80	74	61	65	64	63	50	66	59	57	68	75	69	69	74	74	43	43	39	52	49	65	61	51	50	52	54		60.9
	MIN	53	58	56	53	49	45	29	48	37	30	32	46	26	36	31	55	29	52	33	33	24	23	17	24	35	33	23	33	16	21		36.0
Wasola	MAX	69	70	66	76	69	64	65	67	58	54	67	58	64	69	75	70	65	70	59	52	55	49	54	54	69	61	49	48	48	62		61.9
	MIN	55	53	54	52	46	43	34	40	30	24	31	40	30	35	40	52	40	54	31	30	30	23	19	19	34	44	44	32	18	24		36.7
Wehster Groves	MAX	69	62	60	76	70	59	60	68	54	46	63	53	50	64	72	71	62	60	60	43	43	41	39	54	64	56	52	50	47	52		57.3
	MIN	48	56	54	53	51	46	34	37	32	30	31	43	32	32	30	46	32	41	37	33	25	27	28	23	30	33	24	33	22	26		35.6
Weingarten	MAX	71	65	60	75	70	61	60	64	58	49	65	57	57	65	71	69	64	60	59	51	48	42	45	55	64	58	50	47	50	58		58.9
	MIN	50	56	55	54	52	47	35	43	41	29	31	42	32	37	41	52	37	47	35	33	30	28	27	26	36	43	30	32	22	30		38.4
West Plains	MAX	67	67	65	75	62	60	64	65	55	50	65	52	59	66	73	72	62	63	59	51	49	46	50	55	67	56	52	45	46	56		59.1
	MIN	54	57	52	56	50	35	29	34	30	30	25	43	31	30	33	35	31	49	35	29	28	23	20	27	29	33	29	29	22	22		34.3
Willow Springs	MAX	70	66	63	74	68	59	64	61	54	48	65	55	58	64	73	72	63	62	57	50	49	66	49	53	67	60	48	47	50	59		59.8
	MIN	53	56	54	53	50	41	28	33	33	25	27	42	31	30	32	51	30	46	33	32	26	42	16	25	27	42	28	32	21	22		35.4

See reference notes following Station Index

TABLE 6

DAILY EVAPORATION (INCHES) AND WIND MOVEMENT (MILES)

STATION		DAY OF MONTH																															TOTAL	DEPARTURE FROM NORMAL
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
Lakeside	EVAP	.062					.160	.179	.143	.106	.064	.078	.139	.154	.076	.065	.111	.093	.171	.149	.062	.015	.022		.037	.072	.083	.045	.066	.039	.058		2.249	
	WIND	8	64	38	35	155	170	90	61	89	88	58	77	99	41	27	47	81	108	133	208	68	60	45	25	50	49	28	88	78	40		2208	
Saint Louis Wash Univ	EVAP			.006	.006	.062	.060	.062	.063	.051	.008	.032	.057	.008	.036	.058	.039	.023	.066		.026	.011		.008	.013	.011	.047	.027	.039		.045		.864	
	WIND	5	43	37	9	41	23	20	11	5	24	21	25	44	10	17	26	31	36	53	42	13	19	20	23	12	22	18	76	96	10		832	

TABLE 7

DAILY RIVER STAGES (FEET)

RIVER AND STATION	FLOOD STAGE	DAY OF MONTH																															HIGHEST (OR CREST)	DATE	LOWEST	DATE
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31				
Bourbeuse																																				
Union	12	.2	..4	.1	.1			.4	.4	.4	.2	.1	.1						-0.1		-0.1	-0.1	-0.1	-0.1	-0.1	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2		.4	2+	-0.2	25+
Meramec																																				
Sullivan 3 NE	11	1.6	2.0	2.4	3.0	2.8	2.5	2.5	2.2	2.1	2.0	2.0	2.0	2.0	1.9	1.8	1.8	1.8	1.7	1.7	1.7	1.8	1.8	1.8	1.8	1.8	1.7	1.7	1.6	1.6	1.5		3.0	4	1.5	30
Mississippi																																				
Hannibal	13	9.8	10.0	10.0	10.1	9.9	9.9	9.9	10.0	10.2	10.2	10.1	10.0	9.9	9.9	10.0	10.0	10.0	10.2	10.2	10.4	10.3	10.3	10.4	10.4	10.2	10.0	10.0	10.0	10.1	10.1		10.4	20+	9.8	1
Saint Louis WB City	30	-0.2	-0.1	2.1	5.0	6.0	5.7	3.9	.9	2.4	2.8	2.2	2.5	3.0	2.9	2.0	1.4	1.9	1.5	1.3	2.6	2.6	2.5	2.3	2.6	3.2	2.9	2.4	1.3	.3	-0.8		6.0	5	-0.8	30
Cape Girardeau	32	8.1	8.3	8.6	9.8	12.4	14.2	14.3	13.3	11.5	11.3	11.8	11.5	11.6	11.8	11.9	11.1	10.6	10.4	10.6	10.7	10.9	11.4	11.3	11.1	11.1	11.5	11.6	11.2	10.6	9.5		14.3	7	8.1	1
Thompson Fork																																				
Trenton	20	3.4	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.4	3.4	3.7	3.6	3.6	3.5	3.5	3.6	3.6	3.7	3.6	3.6	3.5	3.5	3.5	4.1	3.9	3.6	3.8	3.6	3.6		4.1	25	3.4	1+
Grand																																				
Gallatin	20	2.9	2.8		2.5	2.5	2.4		2.3	2.3	2.3		2.3	2.2	2.2	2.2	2.2	2.3	2.3	2.3	2.4		2.4	2.4	2.4	2.4	2.3	2.3	2.3	2.3	2.3		2.9	1	2.2	13
Chillicothe 2 S	18	3.8	4.1	3.8	3.8	3.8	3.7	3.7	3.7	3.7	3.7	3.7	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.8	3.7	3.6	3.6	3.6	3.6	4.5	4.0	3.9	3.8	3.7		4.5	25	3.6	12+
Brunswick	12	3.6	4.2	4.1	4.1	3.6	3.5	3.6	3.9	4.0	4.0	4.0	3.8	3.6	3.6	3.5	3.5	3.4	3.2	3.0	2.9	3.0	3.9	3.2	2.6	2.2	2.0	2.0	1.8	1.6	1.6		4.2	2	1.6	29+
Osage																																				
Osceola	22	4.7	8.2	13.1	10.9	9.2	7.6	5.5	5.6	4.2	4.1	3.3	3.3	3.3	3.3	3.0	2.4	3.3	1.7	1.3	1.2	1.2	2.3	1.2	1.2	1.2	1.2	1.1	1.2	1.1	1.1		13.1	3	1.1	27+
Warsaw No 2	31	19.2	20.8	22.8	23.2	22.9	23.2	23.4	23.4	23.4	23.2	23.3	23.4	23.2	23.2	23.4	23.2	23.0	23.0	23.0	22.9	23.0	23.0	23.0	22.8	22.9	22.8	22.7	22.7	22.6	22.6		23.4	7+	19.2	1
Lakeside	-	50.9	51.6	52.5	53.5	54.4	54.8	55.1	55.3	55.4	55.3	55.2	55.2	55.1	55.1	55.1	55.0	55.0	54.9	54.9	54.8	54.8	54.9	54.7	54.6	54.6	54.6	54.5	54.5	54.6	54.4		55.4	9	50.9	1
St. Thomas	23	1.9	8.2	7.4	5.8	4.4	4.5	2.7	2.3	4.3	6.4	4.9	2.4	6.2	2.4	2.0	4.4	5.4	3.7	5.4	5.2	2.3	1.9	5.5	5.2	3.9	2.1	4.8	2.2	2.0	5.4		8.2	2	1.9	1+
Gasconade																																				
Jerome	15	1.8	5.0	7.1	5.8	4.6	3.8	3.6	3.0	3.0	3.0	2.9	2.9	2.8	2.7	2.5	2.5	2.4	2.4	2.3	2.3	2.3	2.3	2.2	2.2	2.2	2.1	2.1	2.0	2.0	2.0		7.1	3	1.8	1
Missouri																																				
St. Joseph WB Airport	17	8.7	8.4	8.5	8.7	8.9	9.3	9.3	9.5	9.5	9.3	9.3	9.0	8.8	8.8	8.9	8.6	8.3	8.1	8.2	9.8	9.3	8.6	7.8	7.2	7.3	6.8	6.9	7.2	7.6	7.2		9.8	20	7.2	24+
Kansas City WB Airport	22	8.8	8.7	8.3	8.5	8.5	8.6	8.9	9.1	9.1	9.1	8.8	8.6	8.6	8.5	8.5	8.4	8.1	7.8	7.6	7.9		8.0	7.5	6.9	6.4	6.2	6.2	6.4	6.6	6.9		9.1	8+	6.2	26+
Waverly	18	10.0	10.1	9.6	9.4	9.4	9.5	9.8	10.3	10.3	10.3	10.2	9.8	9.8	9.8	9.7	9.8	9.7	9.5	9.2	9.1	10.3	10.5	9.5	8.8	8.0	7.5	7.3	7.3	7.4	7.6		10.5	22	7.3	27+
Boonville	21	7.5	9.8	10.2	9.0	8.1	8.0	8.0	8.2	8.7	8.9	8.9	8.7	8.4	8.2	8.2	8.1	8.2	8.0	7.7	7.5	7.4	8.4	8.7	7.7	6.9	6.1	5.6	5.5	5.4	5.6		10.2	3	5.4	29
Hermann	21	7.5	9.0	14.0	12.3	10.6	9.5	9.1	8.5	8.5	9.0	9.1	9.3	9.0	9.0	8.5	8.3	8.4	8.7	8.5	8.5	8.2	7.5	8.1	9.0	8.6	7.4	6.7	6.3	6.0	5.8		14.0	3	5.8	30
St. Charles	25	11.1	11.0	12.4	13.9	12.7	11.1	10.9	10.7	10.6	10.6	10.5	10.6	13.0	12.8	12.7	11.8	11.5	11.3	12.2	13.8	13.5	12.0	11.6	11.7	11.4	11.2	10.3	10.0	9.4	9.0		13.9	4	9.0	30
Current																																				
Doniphan 2 W	12	1.8	1.9	2.1	2.1	2.3	2.3	2.2	2.2	2.1	2.0	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.2	2.3	2.2	2.2	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.0		2.3	5+	1.8	1
Black																																				
Leeper	11	1.7	1.7	1.8	1.9	2.8	4.0	4.0	4.0	1.9	1.8	1.8	2.0	2.7	3.8	2.1	2.3	2.3	2.3	2.4	2.3	2.8	2.8	2.8	2.8	2.8	2.8	2.0	1.9	1.9	1.9		4.0	6+	1.7	1+
Poplar Bluff	16	1.9	2.1	2.9	2.1	2.3	3.3	3.6	3.7	3.7	2.7	2.3	2.2	2.3	3.1	3.3	2.7	2.5	2.6	4.2	3.6	3.1	3.5	3.6	3.5	3.5	3.6	3.8	2.8	2.8	2.6		4.2	20	1.9	1
White																																				
Forsyth	-	.7	1.4	1.7	1.3	1.3	1.1	2.8	1.1	1.1	1.1	1.1	.9	.9	2.9	.9	.9	.9	.9	.9	.9	.8	.8	.8	.8	.8	.8	.8	.8	.8	.8		2.9	14	0.7	1
St. Francis																																				
Fisk	20	13.3	15.3	13.4	12.1	14.7	15.2	13.0	12.5	11.8	13.3	12.6	13.4	13.8	13.3	12.7	12.0	13.3	13.9																	
Mississippi																																				
New Madrid	34	3.7	3.6	3.9	4.5	5.4	6.1	9.3	11.1	12.0	12.1	12.0	12.2	12.2	10.8	9.7	9.9	9.8	9.2	9.0	10.3	12.4	14.2	15.3	15.2	14.5	14.0	13.7	14.6	15.5	16.7		16.7	30	3.6	2
Caruthersville	32	1.9	1.8	1.8	2.3	3.3	3.9	6.2	8.7	10.3	10.8	10.8	11.0	11.1	10.4	9.1	8.6	8.5	8.0	7.8	8.1	10.2	12.0	13.7	14.0	13.6	13.1	12.7	13.1	14.0	15.0		15.0	31	1.8	2+

The following reference notes apply only to Table 7 - Daily River Stages:

Readings are made at approximately 7 a.m. (Local time). They are provisional and subject to correction. Final and corrected stages will be published in the annual publication "Daily River Stages - Principal Rivers of the United States".

a	Obstructed by rough ice.	f	Shore ice.
b	Frozen but open at gage.	g	Floating ice.
c	Upper surface of smooth ice.	h	Pool stage.
d	Ice gorge above gage.	i	Dry at gage.
e	Ice gorge below gage.	j	Interpolated.

STATION INDEX

Station	Index No.	County	Drainage	Latitude	Longitude	Elev. (ft.)	Time of observation			Years of record			Observer	Refer to tables
							Zone	Temp.	Precip.	Temp.	Precip.	Evap.		
lvance AP	0022	Stoddard	St. Francis	37 06	89 55	354	C	MID	MID	11	11		U. S. Airways Com. Sta.	2 3 4 5
lbany	0051	Gentry	Grand	40 15	94 20	930	C	6P	6P	7	19		William J. Butler	2 3 5
lton 10 mi. SE	0122	Oregon	Black	36 41	91 24		C		6P		7		Dr. J. D. Brock	3
lton 6 mi. ENE	0127	Oregon	Black	36 42	91 19		C				8		Loyd E. Black	3 4
ltona	0135	Bates	Osage	38 24	94 13		C		8A		12		Ina Chitty	3
mity	0143	DeKalb	Grand	39 52	94 26	1620	C	6P	6P	2	13		O. M. Colhour	2 3 5
msterdam	0151	Bates	Osage	38 21	94 35		C				8		R. A. Kershner	3 4
nderson 2 mi. SW	0164	McDonald	Neosho	36 39	94 21	1000	G	7A	7A	44	49		Samuel G. Chamberlain	2 3 5
nnapolis	0179	Iron	Black	37 20	90 47		C		7A		4		Opal G. Ritter	3
ppleton City	0204	St. Clair	Osage	38 13	94 05	800	C	6P	6P	53	56		F. Paul Eye	2 3 4 5
rcadia	0224	Iron	St. Francis	37 35	90 37	926	C	7A	7A	67	70		Arcadia College	2 3 5
shton	0312	Clark	Mississippi	40 27	91 49		C						E. E. St. Clair	3 4
uxvasse	0357	Callaway	Missouri	39 01	91 54		C		7A		5		C. H. Hook	3
va Ranger Station	0365	Douglas	White	36 57	92 40		C		8A		3		U. S. Forest Service	3
edford 1 mi. S	0503	Livingston	Grand	39 42	93 23		C				8		Harry S. Stephans	3 4
elleview	0539	Iron	Meramec	37 41	90 44		C		7A		12		Edna M. Keesling	3 4
ernie	0595	Stoddard	St. Francis	36 40	89 58		C		7A		3		Carrie P. Wicks	3 4
ethany	0608	Harrison	Grand	40 15	94 02	916	C	6P	6P	53	55		B. A. McGregor	2 3 5
irch Tree	0668	Shannon	Black	36 59	91 30	1000	C	5P	7A	53	54		Mildred E. Catlett	2 3 5
lack 9 mi. NW	0695	Iron	Black	37 36	91 03	1000	C	7P	7P	55	55		J. Cornell Shy	2 3 5
loomfield	0735	Stoddard	St. Francis	36 54	89 57		C		7A		3		R. Lynn Marine	3
lue Lick	0747	Saline	Saline	38 59	93 12		C		7A				W. H. Jocohy	3
olivar	0789	Polk	Osage	37 37	93 25	1071	C	5P	5P	45	53		SW Baptist College	2 3 4 5
oonville	0812	Cooper	Missouri	38 58	92 45		C		7A		71		Rufus W. Weed	3 7
oonville Waterworks	0817	Cooper	Missouri	38 58	92 45	650	C	8A	8A	10	10		Boonville Water Dept.	2 3 5
owling Green	0856	Pike	Mississippi	39 21	91 12		C		8A		18		Virgil Cook	3
radleyville	0878	Taney	White	36 46	92 53		C		7A		3		Elmer C. Hubbard	3
rookfield	0980	Linn	Grand	39 47	93 05	767	C	8A	8A	7	7		G. F. Breen	2 3 5
rowning 3 mi. NE	1003	Linn	Grand	40 03	93 06		C		7P		5		Herman F. Kille	3
runswick	1037	Chariton	Grand	39 26	93 08	652	C	7A	7A	67	69		O. K. Benecke	2 3 5 7
uffalo	1087	Dallas	Osage	37 38	93 05		C		8A		17		L. H. Howerton	3
unker	1101	Reynolds	Black	37 30	91 15		C		7A		4		C. D. Highley	3
urlington Junction	1141	Nodaway	Missouri	40 26	95 04		C		7A				U. S. Reavis	3
utler	1145	Bates	Osage	38 16	94 20	865	C	6P	6P	2	7		Harley W. Johnson	2 3 5
amdenton	1212	Pulaski	Osage	38 03	92 47	940	C	4P	4P	2	2		Mo. Conserv. Com.	2 3 5
ampbell	1221	Dunklin	St. Francis	36 29	90 04	314	C	5P	5P	22	22		Ruth Christian	2 3 5
anton Lock & Dam 20	1275	Lewis	Mississippi	40 08	91 31	488	C	7P	7A	10	18		Lockmaster	2 3 5
ap Au Gris Lock & Dam 25	1283	Lincoln	Mississippi	39 00	90 41		E		7A		2		U. S. Engineers	3 4
ape Girardeau Mo. State	1291	Cape Girardeau	Mississippi	37 18	89 32	347	C	5P	5P	3	3		State Teachers College	2 3 5
ape Girardeau	1296	Cape Girardeau	Mississippi	37 18	89 32		C		7A		48		Lee L. Albert	3 7
aplinger Mills	1304	Cedar	Osage	37 48	93 49		C	6P	6P		22		S. E. Price-	2 3 5
arrollton	1340	Carroll	Missouri	39 22	93 30	754	C	6P	6P	2	2		Harold E. Finley	2 3 5
arthage	1356	Jasper	Spring	37 11	94 17	962	C	6P	6P	14	24		Carthage W & E Plant	2 3 5
aruthersville	1364	Pemiscot	Mississippi	36 17	89 40	265	C	5P	7A	52	56		Victor T. Malloure	2 3 5 7
assville Ranger Station	1383	Barry	White	36 41	93 52		C		8A		8		J. Alice Quillinan	3 4
enterville	1467	Reynolds	Black	37 26	90 57		C		7A		3		Corda Jane Harrison	3
enterville Ranger Station	1472	Reynolds	Black	37 26	90 57		C		8A		12		U. S. Forest Service	3
entralia	1482	Boone	Mississippi	39 12	92 08		C		8A		12		Earl W. Seymour	3
hadwick	1490	Christian	White	36 56	93 03		C		7A		2		Sylvia Fletcher	3
Chillicothe 2 mi. S	1580	Livingston	Grand	39 45	93 33	771	C		7A		33		H. O. Dupy	3 7
Chillicothe AP CAA	1585	Livingston	Grand	39 47	93 30		C	MID	MID	39	42		U. S. Airways Com. Sta.	2 3 5
Clarksville Lock & Dam 24	1640	Pike	Mississippi	39 22	90 55		E						U. S. Engineers	3 4
Clearwater Dam Site	1674	Wayne	Black	37 08	90 47	648	C	4P	7A		8		U. S. Engineers	2 3 4 5
Clifton City	1704	Cooper	Missouri	38 45	93 02		C		7A				F. S. Needy	3
Clinton	1711	Henry	Osage	38 22	93 46	786	C	MID	MID	55	61		U. S. Weather Bureau	2 3 4 5
Columbia WB Airport	1790	Boone	Missouri	38 58	92 22		C	MID	MID	8	8		U. S. Weather Bureau	2 3 4 5
Columbia WB City	1795	Boone	Missouri	38 57	92 20		C	5P	5P	58	58		U. S. Weather Bureau	2 3 4 5
Columbia Univ. of Mo. 9 mi. NW	1800	Boone	Missouri	38 59	92 28		C	5P	5P		4	4	Robert E. Lee	2 3 4 5 6
Conception	1822	Nodaway	Missouri	40 14	94 40	1108	C	5P	5P	59	64		Fr. Adelheim Hess	2 3 5
Concordia	1837	Lafayette	Missouri	38 59	93 34	783	C		7A		31		Lloyd Beissenherz	3
Cook Station	1870	Crawford	Meramec	37 48	91 27		C		7A		4		Thos. J. Gorman	3
Crane Mountain	1980	Iron	St. Francis	37 27	90 38		C		9A		4		Roy E. Thomlison	3
Crocker	2004	Pulaski	Osage	37 59	92 15		C		6P		17		Charles Iden	3
Crystal City	2031	Jefferson	Mississippi	38 13	90 23	420	C	5P	5P	14	14		Richard K. Ragland	2 3 5
Cuba	2043	Crawford	Meramec	38 04	91 24		C		7A		11		Rehm E. Thielecke	3
Deering	2156	Pemiscot	St. Francis	36 12	89 52		C		7A		6		Thomas N. Wood	3
De Sota	2220	Jefferson	Mississippi	38 09	90 34		C		7P		4		Roy E. Dewey	3
Dexter	2235	Stoddard	St. Francis	36 47	89 58		C		6A		24		J. L. Jackson	3
Doniphan	2289	Ripley	Black	36 37	90 49	344	C	6P	6P	44	44		Boyce Lackey	2 3 5
Doniphan 2 mi. W	2294	Ripley	Black	36 37	90 51		C		7A		3		Geo. Baumgardner	2 7
Dora	2302	Ozark	White	36 46	92 13		C				8		Alta M. Deupree	3 4
Downing	2318	Schuyler	Mississippi	40 29	92 20		C		5P		7		Edward L. Beeler	3 4
East End	2406	Iron	Meramec	37 41	91 02		C		7A		4		C. O. Smith	3
Edgerton	2474	Platt	Missouri	39 30	94 37	856	C	7A	7A	28	45		Leroy H. Mindrup	2 3 5
Edina	2482	Knox	Mississippi	40 10	92 10		C		7A		19		Paul D. Pettit	3
Eldon	2503	Miller	Missouri	38 20	92 35	934	C	5P	5P	53	49		Arthur Rothwell	2 3 5
Eldorado Springs	2511	Cedar	Osage	37 52	94 01		C		6P		18		Clyde J. Snodgrass	3
Elijah	2519	Ozark	White	36 36	92 09		C		7A		3		Loyd Price	3
Ellington	2547	Reynolds	Black	37 14	90 59		C		7A		8		S. Phronia Sanders	3 4
Ellsinore	2563	Carter	Black	36 56	90 45		C		5P		4		Clinton Sheets	3
Elsberry	2591	Lincoln	Mississippi	39 10	90 47	449	C	8A	8A	17	17		Soil Conserv. Serv.	2 3 5
Eminence	2617	Shannon	Black	37 11	91 23	1250	C				7		Thomas J. Chilton	3 4
Fairfax	2729	Atchison	Tarkio	40 20	95 24		C						Dillard A. Price	3
Farmington	2809	St. Francois	St. Francis	37 47	90 26	896	C	7P	6A	37	51		F. M. Karsch	2 3 4 5
Fayette	2823	Howard	Missouri	39 09	92 41	760	C	6P	6P	68	65		Irvin E. Schnell	2 3 5
Fisk	2881	Butler	St. Francis	36 47	90 12		C		7A		18		Charles E. Hargrove	3 7
Forsyth	2975	Taney	White	37 41	93 06		C		7A		8		Otto Kenyon	3 4 7
Fredericktown	3038	Madison	St. Francis	37 33	90 17		C		7A		23		R. H. Leslie	3
Fremont Tower	3052	Carter	Black	37 08	91 20		C		8A				Thelman Palmer	3
Fulton	3079	Callaway	Missouri	38 51	91 57	818	C	8A	8A	60	56		Frank E. Hillgartner	2 3 4 5
Galena	3094	Stone	White	36 48	93 28		C		7A		36		Maynard L. Stewart	3
Gallatin	3102	Daviess	Grand	39 55	93 57		C		7A		46		S. C. Poe	3 7
Gerald	3178	Franklin	Meramec	38 24	91 20		C		6P		7		Edwin H. Vernner	3
Granby	3341	Newton	White	36 55	94 15		C		7A		4		Mildred B. Hatcher	3
Grant City	3369	Worth	Grand	40 29	94 25	1134	C	6P	6P	44	56		J. Homer Korn	2 3 4 5
Greenville 1 mi. SW	3451	Wayne	St. Francis	37 06	90 27	415	C	5P	7A	39	41		C. L. Rubottom	2 3 5
Hailey	3537	Barry	White	36 42	93 43		C		6P		27		William Madison	3
Hamden	3565	Chariton	Chariton	39 36	92 47		C				8		Mary M. White	3 4
Hannibal	3596	Marion	Mississippi	39 42	91 20	759	C		7A		6		P. B. Stelmann	3 7
Hannibal Waterworks	3601	Marion	Mississippi	39 41	91 20	759	C	MID	MID	56	64		Hannibal Water Dept.	2 3 5
Harris	3641	Sullivan	Grand	40 18	93 22		C				8		John E. Miller	3 4
Harrisonville	3649	Cass	Osage	38 39	94 20	904	C	7A	7A	70	73		Jeffrey B. Patterson	2 3 5
Hermann	3793	Gasconade	Missouri	38 42	91 25		C		7A		74		Joseph G. Rebsamen	3 7
High Lookout	3845	Shannon	Black	36 53	91 27		C		6P		4		John Scoville	3
Hornersville	3999	Dunklin	St. Francis	36 03	90 06		C				8		Sallie E. Perkins	3 4
Houston 1 mi. W	4021	Texas	Gasconade	37 20	91 53		C				8		Austin McKinney	3 4
Jackson	4226	Cape Girardeau	Mississippi	37 23	89 40	428	C	5P	5P	57	58		Danny Siebert	2 3 5
Jeff City Radio KWOS	4271	Cole	Missouri	38 35	92 12	557	C	6P	7A	58	66		KWOS Radio Farm	2 3 5
Jefferson City	4276	Cole	Missouri	38 34	92 11		C		7P		7		Robert R. Henderson	3 4
Jerome	4291	Phelps	Gasconade	37 56	91 59		C		7A		46		G. A. Brinkley	3 7
Jewett	4299	Madison	St. Francis	37 23	90 29		C				8		Fred Goelkel	3 4
Joplin AP CAA	4315	Jasper	Neosho	37 10	94 30	988	C	MID	MID	26	43		U. S. Airways Com. Sta.	2 3 5
Kahoka	4349	Clark	Mississippi	40 25	91 43		C		8A		19		Wesley E. Hayden	3
Kansas City WB Airport	4359	Jackson	Missouri	39 07	94 35	741	C	MID	MID	59	59		U. S. Weather Bureau	2 3 4 5 7
Kansas City St. John & Elmwood	4364	Jackson	Missouri	39 06	94 32		C		MID		6		Lester Applegate	3 4

Station	Index No.	County	Drainage	Latitude	Longitude	Elev. (ft.)	Time of observation			Years of record			Observer	Refer to tables
							Zone	Temp.	Precip.	Temp.	Precip.	Evap.		
Kansas City 75th & Holmes	4369	Jackson	Missouri	39 00	94 35		C		MID		6		Lester Applegate	3 4
Kansas City 37th & Raytown Rd.	4374	Jackson	Missouri	39 03	94 30		C		MID		6		Lester Applegate	3 4
Kansas City Univ. of K. C.	4379	Jackson	Missouri	39 02	94 35	908	C	6P	6P	10	10		Univ. of K. C.	2 3 4 5
Kidder	4481	Caldwell	Grand	39 47	94 06	1020	C	7P	7A	56	60		Geraldine Terry	2 3 5
King City	4505	Gentry	Missouri	40 03	94 31	1095	C		6P		40		John M. Martin	3
Kirksville	4544	Adair	Mississippi	40 12	92 34	969	C	6P	6P	59	66		Dow Jones	2 3 5
Kirksville AP CAA	4549	Adair	Mississippi	40 06	92 33	966	C	MID	MID	9	9		U. S. Airways Com. Sta.	2 3 4 5
Koshkonong	4625	Oregon	Black	36 35	91 39	958	C	6P	7A	47	48		Genevieve T. Smith	2 3 5
La Belle	4637	Lewis	Mississippi	40 07	91 55		C		8A		18		James M. Fishhack	3
Lakeside	4694	Miller	Osage	38 12	92 37	595	C	7A	7A	17	17	15	W. S. Frame	2 3 4 5 6 7
Lamar	4705	Barton	Neosho	37 30	94 16	980	C	7A	7A	60	67		Marie Mann	2 3 5
Lampe Forest Service	4727	Stone	White	36 34	93 26		C		7A		7		Orley F. Scott	3
Lampe 4 mi. NNE	4732	Stone	White	36 38	93 24		C						Mrs. Addis O. Rogers	3 4
Lathrop 3 mi. SW	4773	Clinton	Grand	39 32	94 22	1080	C	6P	6P	1	1		E. L. Fisher	2 3 5
Lehanon	4825	Laclede	Osage	37 42	92 45	1265	C	7A	7A	60	61		Rosa E. Montelius	2 3 4 5
Lecoma 3 mi. N	4828	Dent	Meramec	37 49	91 44	1140	C						R. W. McCracken	3 4
Leeper	4844	Wayne	Black	37 04	90 42		C		7A		23		Orville A. Roherts	3 7
Lexington	4904	Lafayette	Missouri	39 11	93 53	688	C	7A	7A	63	64		William B. Cullon	2 3 5
Licking 4 mi. N	4919	Texas	Gasconade	37 29	91 52	1170	C	6P	7A	11	11		Fern E. Austin	2 3 5
Linneus 2 mi. S	4978	Linn	Grand	39 50	93 12		C		5P		7		Merle Wade	3 4
Livonia	5014	Putnam	Chariton	40 29	92 42		C				8		Icel M. Tade	3 4
Lockwood	5027	Dade	Osage	37 23	93 57	1078	C	6P	7A	42	52		Huhert A. Nieman	2 3 4 5
Louisiana Starks Nur.	5093	Pike	Mississippi	39 26	91 02	469	C	6P	6P	54	67		Stark Bros. Nurseries	2 3 5
Louisiana	5098	Pike	Mississippi	39 27	91 03		C		7A		5		Crewdson W. Dillender	3
Lucerne	5121	Putnam	Grand	40 27	93 18		C		9A		7		D. A. Browning	3 4
Macedonia Lookout	5164	Ripley	Black	36 45	90 54		C		7A		4		Roy C. Rohinett	3
Macon	5175	Macon	Chariton	39 45	92 28	875	C	7A	7A	49	55		John W. Atwell	2 3 4 5
Madison	5183	Monroe	Mississippi	39 28	92 12		C		8A		14		Enos Wood	3
Malden	5205	Dunklin	St. Francis	36 34	89 57		C				7		Rollie H. Kennard	3 4
Mansfield	5227	Wright	White	37 06	92 35		C		7A		3		Benry O. Brown	3
Marble Hill	5253	Bollinger	Mississippi	37 18	89 59	532	C	5P	5P	53	55		R. A. DeWitt	2 3 5
Marshall AP CAA	5298	Saline	Missouri	39 06	93 12		C	MID	MID		8		U. S. Airways Com. Sta.	2 3 4 5
Marshfield	5307	Wehster	White	37 20	92 54	1484	C	5P	5P	3	7		Sho-Me Power Co.	2 3 5
Martinshurg	5319	Audrian	Missouri	39 06	91 41		C		7A		4		B. Freese	3
Maryville	5340	Nodaway	Missouri	40 21	94 52	1169	C	6P	6P	58	54		R. B. Montgomery	2 3 5
Maryville 6 mi. NNW	5345	Nodaway	Missouri	40 25	94 53	1160	C						Earl W. Truehlood	3 4
McCredie 2 mi. W	5410	Callaway	Missouri	38 58	91 58		C				8		Lelia B. Craig	3 4
McCredie Exp. Station	5415	Callaway	Missouri	38 57	91 54		C		MID		8		U. S. Soil Conserv.	3 4
Memphis	5492	Scotland	Mississippi	40 27	92 10	787	C	7A	7	9	18		John W. Alexander	2 3 5
Mercer 6 mi. NW	5519	Mercer	Grand	40 33	93 35		C		7A				Oscar L. Hartley	3
Mexico	5541	Audrain	Mississippi	39 10	91 53	800	C	7A	7A	59	70		D. N. Woods	2 3 5
Middletown	5565	Montgomery	Mississippi	39 07	91 26		C						Mary M. Angel	3 4
Milan	5578	Sullivan	Grand	40 12	93 07		C		7A		25		Charles E. Smith	3
Moherly AP 4 mi. NE	5671	Randolph	Mississippi	39 28	92 25	860	C	8A	8A	11	11		Rohert J. Platter	2 3 4 5
Monett	5700	Barry	Neosho	36 53	93 55	1317	C	7A	7A	1	1		M. U. Fruit Exp. Sta.	2 3 5
Monroe City	5708	Monroe	Mississippi	39 39	91 44		C		SS		25		J. S. Conway	3
Mora	5754	Benton	Missouri	38 32	93 13		C				8		Emma M. Meyer	3 4
Morehouse	5762	New Madrid	Mississippi	36 51	89 41		C		4P		37		J. A. Spence	3
Moselle	5816	Franklin	Meramec	38 23	90 54		C		8A		3		A. Lampert	3
Mountain Grove 2 mi. N	5834	Wright	Gasconade	37 09	92 16	1463	C	5P	8A	47	1		M. U. Fruit Exp. Sta.	2 3 4 5
Mount Vernon 3 mi. SW	5861	Lawrence	Neosho	37 04	93 52	1174	C	6P	6P	36	48		William E. Kirchhoff	2 3 5
Neosho	5976	Newton	Neosho	36 52	94 22	1011	C	5P	5P	61	65		U. S. Fisheries Sta.	2 3 5
Nevada	5987	Vernon	Osage	37 50	94 21	862	C	6P	6P	55	56		Benry Kraft	2 3 4 5
New Florence AP 1 mi. SE	6007	Montgomery	Missouri	38 53	91 26	885	C	MID	MID	5	6		U. S. Airways Com. Sta.	2 3 4 5
New Madrid	6040	New Madrid	Mississippi	36 35	89 31		C		6A		54		Wess Bensley	3 7
Oates Tower	6263	Reynolds	Black	37 32	91 03		C		7A		3		Ethel Sue Adams	3
Odessa	6269	Lafayette	Missouri	39 00	93 57		C		7A				William E. Dougherty	3
Oregon	6357	Bolt	Missouri	39 59	95 09	1093	C	MID	MID	92	92		James M. Curry	2 3 5
Osceola 3 mi. NE	6407	St. Clair	Osage	38 05	93 42		C		7A		7		Sam B. Simmons	3 4 7
Owensville	7438	Gasconade	Gasconade	38 21	91 30		C		8A		5		A. C. Poppenhouse	3 4
Ozark	6452	Christian	White	37 01	93 13		C		7A		3		William L. Reed	3
Ozark Beach	6460	Taney	White	36 40	93 07	700	C	8A	8A	8	23		Empire Dist. Elec. Co.	2 3 5
Pacific	6468	Franklin	Meramec	38 29	90 44		C		7A		59		Arthur D. Lewis	3
Palmyra	6493	Marion	Mississippi	39 48	91 31		C		8A		42		Dan Bamlin House	3
Paris	6509	Monroe	Mississippi	39 29	92 00				8A		18		J. W. Reed	3
Parma	6532	New Madrid	St. Francis	36 37	89 48		C		7A		24		Laura E. Morgan	3
Pattonshurg	6563	Daviess	Grand	40 03	94 09		C				8		Wade D. Moody	3 4
Perry 1 mi. E	6633	Ralls	Mississippi	39 25	91 41		C		5P		18		Guy R. Milton	3 4
Perryville	6641	Perry	Mississippi	37 44	89 51		C		6P		7		Werner T. Weher	3
Philadelphia	6667	Marion	Mississippi	39 50	91 44		C		4P		15		Lynn S. Feaster	3
Pierce City	6678	Lawrence	Neosho	36 57	94 00		C		5P		4		John P. Davis	3
Pineview Lookout	6700	Barry	White	36 42	93 37		C		8A				Charles M. Miller	3
Pleasant Hill	6748	Cass	Osage	38 48	94 17		C		6A		10		Dean T. Knorpp	3
Polo	6775	Caldwell	Missouri	39 33	94 03	1000	C	7A	7A	2	2		F. B. Alhright	2 3 4 5
Poplar Bluff	6791	Butler	Black	36 45	90 24	339	C	7A	7A	43	44		Osmon M. Richardson	2 3 5
Potosi 2 mi. S	6826	Washington	Mississippi	37 55	90 47		C				8		Arthur M. Riehl	3 4
Puxico	6934	Stoddard	St. Francis	36 37	90 09		C		7A		3		Treval Pearman	3
Qulin	6970	Butler	St. Francis	36 36	90 14		C		7A		3		Torrence J. Johns	3
Reynolds	7094	Reynolds	Black	37 24	91 05		C		7A		4		Effie V. Hill	3
Richwoods	7122	Washington	Meramec	38 09	90 50		C		7A		5		Elma M. DeClue	3 4
Ridgeway 1 mi. SE	7130	Harrison	Grand	40 22	93 57		C				6		Keith Jackson	3 4
Rohy	7214	Texas	Gasconade	37 30	92 08		C		6P		6		Roy E. Daniels	3
Rogersville	7255	Wehster	White	37 07	93 03		C						Gladys C. Shockley	3 4
Rolla School of Mines	7263	Phelps	Gasconade	37 57	91 46	1202	C	9A	9A	48	64		Rolla School of Mines	2 3 4 5
Rolla 5 mi. SE	7264	Phelps	Meramec	37 54	91 43	1100	C						Walter W. Snelson	3 4
Rolla 3 mi. W	7265	Phelps	Gasconade	37 57	91 50	865	C						Leslie B. Underwood	3 4
Rolla 4 mi. SE	7266	Phelps	Meramec	37 56	91 43	1040	C						Mrs. Ballen P. Light	3 4
Rolla 7 mi. S	7267	Phelps	Meramec	37 51	91 46	970	C						Gertrude Ponzer	3 4
Round Spring	7309	Shannon	Black	37 18	91 25				7A		4		C. E. Jones	3
Saint Charles	7397	St. Charles	Missouri	38 47	90 29	520	C	6P	7A	60	70		Myrtle Briegel	2 3 5 7
Saint James 3 mi. NW	7424	Phelps	Meramec	38 01	91 40	1005	C						William S. Jones	3 4
Saint Joseph WB Airport	7440	Buchanan	Missouri	39 46	94 55	957	C		6A	38	76		U. S. Weather Bureau	2 3 4 5 7
Saint Louis WB Airport	7455	Saint Louis	Missouri	38 45	90 23	556	C	MID	MID	11	17		U. S. Weather Bureau	2 3 4 5
Saint Louis WB City	7460	St. Louis City	Mississippi	38 38	90 12	465	C		7A	111	111		U. S. Weather Bureau	2 3 4 5 7
Saint Louis Univ.	7465	St. Louis City	Mississippi	38 38	90 14	578	C	MID	MID	36	36		St. Louis University	2 3 5
Saint Louis Wash. Univ.	7470	St. Louis City	Mississippi	38 39	90 18		E	8A	8A		8	10	John Hopp, R. L. Brust	2 3 4 5 6
Saint Thomas	7497	Cole	Osage	38 22	92 13		C		7A		7		John Morff	3 7
Salem	7506	Dent	Meramec	37 38	91 33	1206	C	7A	7A	44	47		E. E. Martin	2 3 4 5
Salishury	7514	Chariton	Chariton	39 26	92 48	723	C	6P	6P	2	2		David H. Rohertson	2 3 5
Saverton Lock & Dam 22	7578	Ralls	Mississippi	39 38	91 16	472	C	7P	7A	10	10		Lockmaster	2 3 5
Sedalia	7632	Pettis	Missouri	38 42	93 14	910	C	5P	7A	35	37		Dr. J. E. Cannaday	2 3 5
Seligman	7645	Barry	Neosho	36 31	93 56	1542	C	7P	7A	47	45		Floyd E. Fawver	2 3 5
Seneca	7656	Newton	Neosho	36 50	94 57		C				3		Bosea N. Barrison	3 4
Seymour 4 mi. NNE	7674	Wehster	White	37 12	92 45	1640	C	7A	7A	42	42		Roy A. Barnden	2 3 5
Shelbina	7720	Shelhy	Mississippi	39 42	92 03	779	C	6P	6P	7	55		Julian C. Weston	2 3 5
Shelhyville	7728	Shelhy	Mississippi	39 48	92 02		C		5P		17		Emmett L. Goe	3
Shell Knoh	7740	Barry	White	36 37	93 35		C		8A		3		Lionel Jung	3
Sikeston	7770	Scott	Mississippi	36 53	89 35	318	C	7A	7A	41	51		Lucy W. Bumphreys	2 3 5
Siloam Springs	7780	Bowell	White	36 48	92 04		C		7A		4		Bess M. Byers	3
Skidmore	7813	Nodaway	Missouri	40 17	95 05		C				8		Nina B. Geyer	3 4
Spring City	7967	Newton	Neosho	37 00	94 32		C				8		Gladys J. Cameron	3 4
Springfield WB Airport 4 mi NW	7976	Greene	Osage	37 14	93 23	1265	C	MID	MID	60	60		U. S. Weather Bureau	2 3 4 5
Stanherry	8003	Gentry	Grand	40 12	94 33		C				6		R. Trueman Wagers	3 4
Steelville 2 NNE	8043	Crawford	Meramec	37 59	91 22		C		7A		7		William Diehl	3 4

STATION INDEX

Continued

Station	Index No.	County	Drainage	Latitude	Longitude	Elev. (ft.)	Time of observation			Years of record			Observer	Refer to tables
							Zone	Temp.	Precip.	Temp.	Precip.	Evap.		
Steffenville	8051	Lewis	Mississippi	39 58	91 53	650	C	6P	6P	50	55		Fannie V. Gross	2 3 4 5
Stover	8112	Morgan	Missouri	38 26	93 02		C		7A		24		H. Kyle Vickery	3
Sugar Camp Lookout	8160	Barry	White	36 32	93 50		C		8A				Ralph L. Richardson	3
Sullivan 3 mi. SE	8171	Washington	Meramec	38 13	91 06		C		7A		7		George J. Hussman	3 4 7
Summersville	8184	Texas	Black	37 11	91 40		C		7A		4		Roy W. Wall	3
Sweet Springs	8223	Saline	Missouri	38 58	93 25	700	C	6P	6P	7	7		H. F. Nelson	2 3 5
Tarkio AP CAA	8289	Atchison	Missouri	40 27	95 22	916	C	MID	MID	45	54		U. S. Airways Com. Sta.	2 3 4 5
Tecumseh	8313	Ozark	White	36 35	92 17		C		7A		3		Tom Chandler	3
Topaz	8412	Douglas	White	36 56	92 12		C		8A		4		C. M. Loyd	3
Trenton	8444	Grundy	Grand	40 05	93 37	822	C		7A	52	53		W. H. Estes	2 3 4 5 7
Troy	8456	Lincoln	Mississippi	38 59	90 59		C		7A		17		Robert L. Nichols	3
Union 2 mi. SE	8515	Franklin	Meramec	38 27	91 00	520	C	6P	7A	10	31		Cornelius Sieges	2 3 5 7
Unionville	8523	Putnam	Chariton	40 38	93 00	1062	C	6A	6A	55	55		George D. Choate	2 3 5
Valley Park	8561	Saint Louis	Meramec	38 33	90 30		C		7A		31		Nathaniel W. Henlon	3 7
Van Buren	8569	Carter	Black	36 59	91 01		C		7A		11		Merle A. Smith	3
Vandalia	8577	Audrain	Mississippi	39 19	91 30	766	C	5P	5P	4	9		Naomi K. Stoutz	2 3 5
Vanzant	8585	Douglas	White	36 56	92 16		C		7A		4		C. D. Smith	3
Vichy 2 mi. SE	8612	Maries	Meramec	38 05	91 44	1040	C						Virginia F. Huffman	3 4
Vichy AP CAA 2 mi. NW	8614	Maries	Gasconade	38 08	91 46	1125	C	MID	MID	12	13		U. S. Airways Com. Sta.	2 3 5
Villa Ridge 3 mi. NW	8630	Franklin	Missouri	38 29	90 55		C				8		Vincent Hellman	3 4
Waco	8664	Jasper	Spring	37 15	94 36		C		7A		2		Lester O. Sigars	3
Wappapello Dam	8700	Butler	St. Francis	36 55	90 17	475	C	8A	8A	9	9		U. S. Engineer Office	2 3 4 5
Warrensburg Central T. C.	8712	Johnson	Missouri	38 46	93 44	878	C	5P	5P	61	68		Central Teachers College	2 3 5
Warrensburg 4 mi. E	8717	Johnson	Missouri	38 45	93 39		C				8		Leah P. Prussing	3
Warrenton	8725	Warren	Mississippi	38 49	91 08	880	C	5P	5P	66	58		W. T. Zimmerman	2 3 4 5
Warsaw No. 1	8733	Benton	Osage	38 15	93 21	687	C	5P	7A		53		Dora Johnson	2 3 5
Warsaw No. 2	8738	Benton	Osage	38 15	93 21		C		8A		31		Ruth A. Pierce	3 7
Washington 3 mi. S	8746	Franklin	Missouri	38 31	91 00		C				8		Joe Ludewig	3 4
Wasola	8754	Ozark	White	36 48	92 34	1294	C	7P	7A	7	8		A. W. Pinckney	2 3 4 5
Waverly	8768	Lafayette	Missouri	39 13	93 31		C		8A		33		Harry McKim	3 7
Waynesville 2 mi. E	8777	Pulaski	Gasconade	37 50	92 11	805	C	7P	7P	2	2		Fred M. Sanderson	3
Webster Groves	8791	Saint Louis	Mississippi	38 35	90 22	507	C	7P	7P	2	3		R. W. Lawrie	2 3 5
Weingarten	8799	Saint Genevieve	Mississippi	37 53	90 13	833	C	5P	5P	7	8		William J. Miller	2 3 5
West Plains	8880	Howell	Black	36 44	91 51	1005	C	MID	MID	11	11		U. S. Weather Bureau	2 3 4 5
Williamsville	8984	Wayne	Black	36 58	90 33		C		7A		24		George W. Julian	3
Willow Springs	8995	Howell	White	36 59	91 59	1238	C	6P	7A	7	41		Allen Frazee	2 3 5
Willow Springs Forest Ser.	9000	Howell	Black	36 59	91 59		C				6		U. S. Forest Service	3 4
Windsor 3 mi. NW	9032	Henry	Osage	38 34	93 33		C		6A				Logan Sutherland	3
Zalma	9178	Bollinger	Mississippi	37 09	90 04		C		7A		11		Louis A. Dobbs	3

NEW STATIONS

High Point 2 mi. NE	3849	Moniteau	Missouri	38 31	92 34		C						Irene C. Dutcher	3 4
Keytesville 4 mi. NE	4449	Chariton	Chariton	39 27	92 52		C		7A				Jess W. Dooley	3
Speed 2 mi. W	7960	Cooper	Missouri	38 51	92 50		C						Richard E. Stegner	3 4
Vienna 3 mi. NW	8620	Maries	Osage	38 13	92 00		C						Arthur McKinney	3 4
Williamsburg	8960	Calloway	Missouri	38 55	91 43		C						Mary W. Crump	3 4

REFERENCE NOTES

The four digit identification numbers in the Index number column of the Station Index are assigned on a state basis. There will be no duplication of numbers within a state.

Delayed data and corrections will be carried only in the June and December issues of this bulletin.

Stations appearing in the Index, but for which data are not listed in the tables, are either missing or received too late to be included in this issue.

Unless otherwise indicated, dimensional units used in this bulletin are: temperature in °F., precipitation and evaporation in inches, and wind movement in miles. Evaporation is measured in the standard Weather Bureau type pan of 4-foot diameter unless otherwise shown by footnote following Table 6.

When hourly precipitation is missing or accumulated for several days, only the first and last days are shown in Table 4.

Amounts in Table 4 are from recording gages. Traces are not shown.

Data in Tables 3, 5 and 6 are for the 24 hours ending at time of observation. See the Station Index for observation time.

-	No record.
+	And also on later dates.
*	Amount included in following measurement, time distribution unknown.
//	Gage is equipped with a windshield.
6	Precipitation measured at 6-hourly intervals, no recording gage.
B	Adjusted to a full month.
E	Water equivalent of snowfall wholly or partly estimated, using a ration of 1 inch water equivalent to every 10 inches of new snowfall.
M	One or more days of record missing; see Table 5 for detailed daily record.
R	Station equipped with recording gage only. All amounts in Table 3 are for non-recording gages, except for stations with this reference.
T	Trace, an amount too small to measure.
V	Includes total for previous month.
Z	Hourly amounts from recording gage at the same site may be found in Table 4.
SS	This entry in time of observation column in Station Index means observation made near sunset.

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CLIMATOLOGICAL DATA

MISSOURI

DECEMBER 1948
Volume LII No. 12

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MISSOURI - DECEMBER, 1948

H. F. Wahlgren, Section Director - Saint Louis

GENERAL SUMMARY

The past month averaged considerably warmer than normal over all divisions of the State, while precipitation averaged slightly less than normal over the Northern and Southwestern Divisions and slightly more than normal over the Southeastern Division. Outstanding features of the month were the generally high winds on the 5th, the unusually warm period from the 11th to 16th and the severe cold wave of the 25th-26th.

Although the average temperature for the month was 2.8° warmer than normal, this was the coldest December in the past three years. An unusually warm spell occurred from the 11th to the 16th, during which time the highest temperature occurred. Maximum temperatures on the 13th and 15th were in the high 60's to the low 80's and a number of stations reported the highest temperature of record for December on the former date. A severe cold period occurred on the 25th and 26th, when the lowest temperatures for the month occurred, and minimums ranged from an extreme low of 26° below zero at Bethany to 20° at Caruthersville. As a rule, the first half of the month averaged considerably warmer than normal while the last half averaged colder than normal. The average temperatures, with departures from normal, by divisions, were: Northern, 33.0°, +2.2°; Southwestern, 38.7°, +3.4°; Southeastern, 39.6°, +3.4°; for the State, 37.1°, +2.8°. Marble Hill was the only station in the State with a monthly average lower than normal.

Precipitation for the month averaged practically normal, for the State as a whole. However, the average for the Southeastern Division was above normal while for the Northern and Southwestern Divisions it was below normal. Actual averages and departures from normal for each division were as follows: Northern, 1.44 inches, -0.14 inch; Southwestern, 1.56 inches, -0.48 inch; Southeastern, 3.44 inches, +0.55 inch; for the State, 2.18 inches, +0.01 inch. The distribution of precipitation during the month was decidedly irregular, ranging from a total of 7.31 inches at Deering to only 0.57 inch at Madison. The monthly totals were from a combination of rain, snow, and sleet at most stations, especially in the northern half of the State, where the snowfall during the month was heaviest. In the southern half of the State snowfall was relatively light, as a rule, especially in the extreme southern portions, where very little or no snowfall occurred at a number of stations. Heaviest precipitation occurred on the 15th and 24th when 24-hour amounts of from one to over three inches were recorded at one or more stations in each division on one or the other date. The ground was bare over most of the State until the 24-25th when rather heavy snowfall occurred over the northern and central portions and remained on the ground, in decreasing amounts, for 4 or 5 days in central portions of the State and for the remainder of the month in the more northern portions.

There were no floods in any of the major rivers or streams of the State during December.

Unusually high straight-line wind from the southwest was general over the entire State all day of the 5th, resulting in considerable minor property damage at a number of places in the central and eastern portions of the State. Places reporting damage were St. Louis and vicinity where trees and wires were blown down or broken, plate glass windows blown out and cornices and roofs of some buildings damaged; also many street lights were broken. Aggregate damage in the St. Louis area was estimated at several thousand dollars. At Fulton and in Callaway County more than $5,000 damage resulted as the high wind damaged roofs and cornices of buildings, broke windows, blew down one barn and moved a church from a temporary foundation about 15 feet, broke trees and wires and blew down haystacks. At Jefferson City a new airplane hangar at the Municipal Airport suffered damage estimated at $1,000 to $1,500 and some wires and trees were also damaged. At Martinsburg roofs and trees were damaged and haystacks on farms blown over; one store roof was partly torn off with damage estimated at $100. At Columbia and surrounding area trees, wires, and window glass were broken and Christmas street decorations were blown down. A barn was demolished near Sturgeon, killing nine calves and several pigs. Boundary lights and storm windows at the Municipal Airport at Columbia were damaged about $100. At Shelbina and over the greater part of Shelby County, about 30 roofs, and some windows and porches were damaged and a few poultry houses and one windmill were blown down; also a few telephone and electric poles were downed. At Camdenton and the Lake of the Ozarks area, shingles were blown from roofs and numerous trees were blown down. At Lakeside some damage occurred to trees, roofs, power lines, etc. At Joplin numerous trees were damaged and a barn was blown down south of the city. No doubt considerably more damage occurred at other places which was not reported due to the minor nature of the damage.

Miscellaneous phenomena reported were as follows: Dust, locally on 5th and 6th. Heavy fogs, 2d, 2d, 4th, 12th, 13th, 14th, 15th, 18th, 25th, 26th, 28. Glaze, 18th, 23d, 24th, 25th, 28th, 29th. Light hail on 5th at Maryville; 24th at Neosho; 28th at University of Kansas City. Sleet, 18th, 22d, 23d, 24th, 25th, 26th, 28th, 29th.

Very little field work was accomplished during December, except for some late fall plowing in the west-central and southwest portions of the State, and harvesting of the remainder of the corn, cotton, and soybean crops. Wheat and other fall-sown small grains continued to make some growth until the severe cold wave of the 25-26th after which these crops were frozen down and remained dormant, thereafter. Main outdoor activities on Missouri farms during much of the month, particularly the latter half, were confined to seasonal chores of feeding and caring for livestock, wood cutting, repairing machinery and fences and planning for the next years crops. Lack of snow cover permitted range of stalk fields and permanent pastures by livestock until the 24-25th, after which dry feeding was altogether necessary over all of the State except the extreme southern portion. The condition of the winter wheat crop at the close of the month ranged from fair in the southwest quarter to good to excellent elsewhere over the State. The snowfall that fell on the 24-25th provided adequate protection for that crop in northern and central sections against the extremely low temperatures that immediately followed. There were adequate supplies of water and moisture for all current needs at the end of the month.

TEMPERATURE

The monthly mean for the State, 107 stations reporting, was 37.1°, or 2.8° warmer than the 61-year December average. The highest monthly mean was 45.3° at Caruthersville, and the lowest was 27.9° at Tarkio. The highest reported was 81° at Ozark Beach on the 14th, and the lowest was 26° below zero at Bethany on the 26th.

PRECIPITATION

The average for the State, based on reports from 106 stations, was 2.18 inches, or 0.01 inch more than the 61-year December average. The greatest monthly amount was 7.31 inches at Deering, and the least was 0.57 inch at Madison. The greatest amount reported in an observational day was 3.09 inches at Williamsville on the 15th. The average number of days with 0.01 inch, or more, was 7.

Snowfall averaged 3.8 inches for 100 stations, or 0.3 inch more than the 59-year December average. The greatest monthly snowfall reported was 15.8 inches at King City.

ble 2

Station	Temperature						No. of Days		Precipitation				Snow, Sleet, Hail			No. of Days		
	Average	Departure from Normal	Highest	Date	Lowest	Date	Max. 90° or above	Min. 32° or below	Total	Departure from Normal	Greatest Day	Date	Total	Max. Depth on Ground	Date	.01 or more	.25 or more	1.00 or more
NORTHERN DIVISION																		
lbany	31.4		67	4	-21	26		28	1.18	.31	.55	24	11.1	6	24	9	1	
ity	32.2		65	4	-12	26		28	1.29	- .75	.46	24	13.8	10	25+	9	2	
ethany	30.3	.2	64	4	-26	26		27	1.16	.01	.36	24	10.5	6	25+	8	1	
rookfield	32.6		66	14	-19	26		30	1.79		.50	24	8.5	8	24+	7	3	
runswick	33.8	3.2	73	14	-13	26		27	1.17	- .50	.43	24	7.0	7	25+	7	2	
anton Lock & Dam 20	32.3	.6	60	13	- 6	26		25	1.58	- .05	.67	15	4.4			8	3	
arrollton	33.9		66	4	-15	26		27	1.61		.56	24	7.5	7	25	9	1	
illicothe AP CAA	30.7	.8	65	4	-17	26		29	1.55	.13	.49	24	12.8	7	25+	8	2	
olumbia WB Airport	35.0		75	13	-10	26		24	1.28		.60	28	6.6	5	24+	5	1	
olumbia WB City	36.8	2.8	75	13	- 7	26		21	1.46	- .40	.44	28	7.2	5	24+	5	3	
olumbia Univ. of Missouri	35.1		74	13	-11	26		26	1.19		.40	24	7.4	5	24+	7	2	
onception	31.1	1.9	65	4	- 8	26		29	1.37	.49	.49	24	8.0	7	25	8	1	
dgerton	30.7	.3	67	5	-20	26		29	1.01	- .11	.40	24	9.5	9	25+	7	1	
lsberry	34.5	.1	77	16	-17	26		27	1.87	- .34	.66	24	8.0	8	24	7	3	
ayette	35.4	4.3	72	13	-13	26		25	1.08	- .58	.39	24	7.0	6	24+	7	2	
ulton 4 SW	35.1	1.6	75	14	- 6	26		26	1.74	- .27	.50	24	8.0	5	24+	7	3	
rant City	29.4	1.4	64	4	- 8	26		30	.76	- .30	.25	5	12.5	5	24+	7	1	
annibal Waterworks	34.2	2.7	72	15	- 4	26		24	1.34	- .20	.58	28	9.0	8	24+	5	2	
ansas City WB Airport	35.8	3.3	73	13	- 1	26		25	1.21	.01	.32	24	6.9	5	24+	8	2	
idder	31.2	2.0	65	4	-12	26		28	1.02	- .25	.43	24	9.8	7	25+	6	2	
irksville	31.7	2.1	67	4	- 9	26		26	1.37	- .39	.34	24	8.5	5	24+	9	3	
irksville AP CAA	30.7		69	13	- 8	26		28	1.55		.35	14	9.1	5	24+	9	3	
athrop 3 SW	33.0		68	13	- 6	26		28	1.91		.74	25	7.9	7	25+	7	3	
ouisiana Starks Nursery	34.9	3.1	75	15	-18	26		26	1.93	.03	.65	24	10.0	9	25+	10	2	
acon	31.9	1.8	68	14	-11	26		27	1.95	.31	.86	15	9.0	8	24+	7	3	
aryville	29.5	2.7	63	4	- 6	26		29	1.49	.41	.49	24	10.1	6	24+	8	2	
emphis	30.3	1.6	65	5+	-10	26		28	1.93	.65	.60	15	7.7	3	25	8	2	
exico	34.7	2.9	76	14	-10	26		24	1.58	- .33	.76	24	8.5	7	24+	7	2	
oberly AP 4 NE	33.9	2.4	67	16	-12	26		25	1.10	- .89	.46	29	5.0	5	24	4	2	
ew Florence AP 1 SE	34.5		74	15	- 6	26		26	1.32		.41	28	9.8	6	24+	6	2	
regon	32.1	3.4	64	4	- 3	26		28	1.15	.11	.54	25	8.5	6	25+	5	1	
olo	32.6 m		65	5	5	10												
aint Charles	38.1	3.2	77	15	- 1	26		23	1.62	- .17	.51	29	5.0	5	24	7	2	
aint Joseph WB Airport	32.3	2.7	66	4	-13	25		27	1.15	- .14	.54	24	8.8	7	25+	8	1	
alisbury	34.6		67	4+	-14	26		24	1.51		.44	24	8.0	6	24+	8	3	
averton Lock & Dam 22	34.1	1.1	74	15	- 6	26		27	1.57	- .30	.61	24	7.5	8	25	8	2	
helbina	33.4		68	13	-17	26		26	1.20	- .34	.50	24	8.5	6	24+	9	2	
teffenville	33.2	2.6	67	13	-16	26		26	1.83	.14	.69	15	8.8	6	24	9	3	
arkio AP CAA	27.9	1.5	63	4	-20	25		30	1.16	.20	.35	5	8.4	4	24+	8	3	
renton	33.0	3.4	65	4	-11	26		26	1.64	.23	.31	5+	11.0	7	25+	11	4	
nionville	29.4	1.8	63	5	- 8	26		29	1.66	- .05	.48	29	11.5	5	25+	9	3	
andalia	35.0		73	15	-15	26		26	1.56		.63	28	8.0	7	24+	7	2	
arrenton	36.5	4.1	75	15	- 9	26		24	1.84	- .24	.51	28	9.0	7	25	7	4	
DIVISION	33.0	2.2							1.44	- .14								
SOUTHWESTERN DIVISION																		
nderson 2 SW	39.1	1.6	80	14	9	30+		27	2.43	.08	1.47	15				5	4	1
ppleton City	38.4	3.8	75	13	6	26		24	.92	- .67	.25	17+	.3	T	23+	7	3	
olivar	40.1	4.5	75	13	10	26		20	1.51	- .83	.75	13	T	T	29	8	2	
oonville Waterworks	33.0	.7	73	14	-10	26		26	1.05	- .65	.45	24	5.5	4	25+	7	1	
utler	37.4		72	13	6	26		25	1.02		.28	24	1.1	1	25	8	2	
Camdenton	44.4 m								1.16				T	T	23+	4		
Caplinger Mills	39.4		77	13	9	26		21	1.03	- .67	.40	28	T	T	29	5	3	
Carthage	41.3		80	13	14	30		19	2.42		1.19	25				7		1
Clinton	37.9	3.2	77	13	5	26		24	.87	-1.00	.31	18	.5	1	24+	5	1	
Eldon	38.7	4.4	77	13	6	26		21	1.57	- .19	.41	18	.6	1	24+	8	3	
Harrisonville	35.5	4.2	71	14+	3	26		28	1.01	- .44	.50	24	3.7	2	24+	8	1	
Jefferson City Radio KWOS	37.0	4.1	77	13	- 8	26		25	1.69	- .25	.70	15	2.8	2	24+	7	2	
Joplin AP CAA	39.8	.6	76	13	12	30		22	1.20	- .69	.80	24	T			3	2	
Kansas City Univ. of K. C.	37.3	2.5	71	13		26		26	1.47	- .49	.60	24	5.6	5	24+	9	2	
Lakeside	37.6	.3	78	14	4	26		27	1.79	- .51	.82	15	1.3	1	24+	7	3	
Lamar	37.9	2.7	76	14	10	30+		26	.71	-1.17	.29	29				3	1	
Lebanon	39.6	4.8	76	13	5	26		22	1.96	- .32	.74	24		1	24+	8	3	
Lexington	34.6	2.6	70	14	- 7	25		24	1.05	- .54	.51	24	6.0	6	25+	7	1	
Lockwood	40.7	4.6	78	13	11	26		19	1.69	- .45	.42	25				7	5	
Marshall AP CAA	34.0	2.1	73	13	-14	26		26	1.10	- .65	.36	24	7.6	7	25+	7	3	
Marshfield	39.0		73	13+	8	26		21	1.86		1.11	14	T			5	3	1
Monett	39.7		76	14	14	26+		26	2.29		1.41	15				4	3	1
Mountain Grove 2 N	39.8	5.1	72	13+	7	26		21	2.43		1.40	15	.3	T	24+	7	3	1
Mount Vernon 3 SW	40.0	4.5	77	13	13	30		20	1.78	- .76	.74	14	T			9	3	
Neosho	41.7	4.6	79	13	11	30		20	1.98	- .30	.86	14	T			7	3	
Nevada	39.7	4.4	76	13	10	30		21	.89	- .86	.26	28	T			9	1	
Ozark Beach	39.6		81	14	13	26		24	2.82	.07	1.28	15				7	4	1
Sedalia	38.2	4.3	75	13	1	26		20	.88	- .40	.35	24	2.0	2	24+	7	1	
Seligman	40.9	3.6	76	13	12	30		19	2.31	.11	1.53	15				4	3	1
Springfield WB Airport	38.1	2.6	77	13	11	26		22	2.01	- .30	1.18	14	T	T	24+	6	2	1
Sweet Springs	36.4		75	13	- 4	26		27	.94		.32	24	5.0	4	24+	5	1	
Warrensburg Central T. C.	37.8	4.4	72	13	2	26		21	1.09	- .45	.42	24	1.8	2	24+	6	2	
Warsaw No. 1	39.5	3.8	78	13	5	26		21	1.11	-1.01	.37	15	.4	T	24+	4	3	
Wasola	40.0		76	13	8	26		23	3.06		1.39	15				8	4	1
DIVISION	38.7	3.4							1.56	- .48								

Table 1 for this issue will be found on page 160.

See reference notes following Station Index

CLIMATOLOGICAL DATA

Station	Temperature								Precipitation									
							No. of Days						Snow, Sleet, Hail			No. of Days		
	Average	Departure from Normal	Highest	Date	Lowest	Date	Max. 90° or above	Min. 32° or below	Total	Departure from Normal	Greatest Day	Date	Total	Max. Depth on Ground	Date	.01 or more	.25 or more	1.00 or more
SOUTHEASTERN DIVISION																		
Advance AP	40.3	3.8	72	12	13	26		18	5.08	2.18	1.56	28				7	6	2
Arcadia	38.3	4.0	75	15	5	26		24	3.10	.25	1.40	29				6	4	1
Birch Tree	39.3	2.9	71	12	6	26		20	4.27	1.52	2.30	15				5	4	1
Camphell	43.1	4.7	72	13+	16	26		14	6.07	2.12	3.00	15				9	4	2
Cape Girardeau Mo. State	41.8		70	13	10	26		19	5.36	1.69	1.27	29	T			10	7	2
Caruthersville	45.3	4.4	74	13	20	26		11	6.47	1.93	1.98	16	T	T	30	9	5	3
Clearwater Dam Site	40.9		72	12	7	26		18	3.37		1.18	15				9	3	2
Crystal City	39.0	4.6	77	13+	- 3	26		23	1.94	- .60	.52	24	5.8	3	24	7	4	
Doniphan	41.0	3.2	75	12	8	26		20	5.67	1.95	1.63	15				9	5	2
Farmington	39.3	2.6	71	15	6	26		20	1.76	-1.04	.58	29	.4	T	24+	8	3	
Greenville 1 SW	41.0	4.8	71	12	8	26		19	4.79	1.43	1.60	15	T			9	5	2
Jackson	40.8	4.2	71	12	10	26		18	4.63	1.20	1.22	15	T			9	6	1
Koshkonong	41.8	3.4	73	12	10	26		17	5.30	1.82	2.99	15				9	4	1
Licking 4 N	39.2 m	2.8							2.72	.34	.95	26	T			6	4	
Marhle Hill	36.4	- .3	69	15	5	25		25	2.44	-1.23	.74	23				6	4	
Poplar Bluff	42.6	4.8	75	12	12	26		16	4.87	.88	2.22	15	3.0	3	25	7	5	3
Rolla School of Mines	38.7	4.1	76	14	7	26		22	1.80	- .38	.77	15	T	T	24+	7		
Saint Louis WB Airport	37.6	4.2	76	15		26		23	1.49	- .24	.38	24	6.2	2	24+	7	3	
Saint Louis WB City	38.8	3.9	75	15	9	26		20	2.01	- .20	.49	14+	5.1	5	24	8	5	
Saint Louis University	38.6	3.5	75	15	8	26		18	1.77	- .67	.61	28	3.5	2	23	8	2	
Saint Louis Washington Univ.	37.5	3.2	75	16	5	26+		23	1.66	- .31	.55	29				5	3	
Salem	37.3	1.9	73	16	4	26		24	2.14	- .40	.91	15	.5	1	25+	10	3	
Sikeston	41.3	3.6	74	14	14	26		19	4.40	.46	1.23	29	T	T	29+	10	5	2
Union 2 SE	36.9	1.4	76	13	- 3	26		27	1.48	- .73	.45	24	6.3	6	24+	8	3	
Vichy AP CAA 2 NW	37.2		76	13	5	26		22	1.31		.42	14	T	T	23+	7	3	
Wappapello Dam	41.0	3.5	73	13	10	26		16	5.51	2.67	2.39	15				8	6	2
Wehster Groves	37.2		76	15	- 1	26		24	1.90		.51	28	5.2	5	24+	9	3	
Weingarten	40.0		72	15	4	26		20	1.58		.90	28	1.0	1	24+	3	2	
West Plains	37.8	1.3	72	13	9	26		23	3.90	.68	1.24	14	T			7	4	1
Willow Springs	39.3		77	13	8	26		21	4.46	1.66	2.48	15				7	4	1
DIVISION	39.6	3.4							3.44	.55								
STATE	37.1	2.8							2.18	.01								

Delayed Data

November 1948																		
NORTHERN DIVISION																		
Kansas City WB Airport	46.3	2.6	71	4+	23	22		10	1.69	- .53	1.00	1	T			8	1	1

Table 1

COMPARATIVE DATA

Year	Temperature			Precipitation		
	Average	Highest	Lowest	Average	Average snowfall	No. of days .01 or more
1888	35.9	70	0	2.43		6
1889	46.8	80	2	1.09	0.1	3
1890	36.0	76	-3	1.18	4.6	3
1891	39.8	72	-1	1.88		6
1892	29.4	75	-22	2.50	4.8	6
1893	35.2	76	-7	0.97	2.7	5
1894	36.7	75	-7	2.41	1.3	5
1895	34.3	69	-8	6.40	3.4	8
1896	38.6	79	-5	0.92	T	3
1897	29.3	74	-14	3.03	6.3	7
1898	28.7	74	-20	1.65	5.1	5
1899	30.4	75	-13	2.22	6.6	9
1900	35.6	68	-3	0.79	0.6	4
1901	28.5	71	-29	3.20	6.9	8
1902	30.7	68	-7	3.32	3.1	8
1903	30.2	65	-11	1.70	2.3	5
1904	32.9	75	-10	1.55	6.0	5
1905	33.3	66	-2	1.71	1.7	4
1906	36.1	73	0	2.52	0.6	8
1907	37.7	76	3	1.75	3.7	7
1908	38.4	80	-4	0.78	T	3
1909	24.9	76	-17	2.87	7.7	8
1910	31.2	67	-5	1.49	2.4	4
1911	36.7	74	-11	2.85	5.1	7
1912	36.5	72	2	0.62	0.6	3
1913	38.3	74	-3	2.26	6.6	7
1914	26.8	68	-18	2.51	6.6	9
1915	34.7	68	-13	2.99	7.8	6
1916	31.3	82	-29	1.92	4.4	6
1917	25.5	82	-23	0.76	7.3	5
1918	40.0	83	-12	3.23	7.8	7
1919	28.5	74	-22	0.72	0.7	3
1920	35.6	77	-10	2.12	2.3	5
1921	36.9	74	-8	1.97	1.9	6
1922	36.3	75	-6	2.27	0.2	6
1923	41.0	82	-4	3.07	0.8	8
1924	27.7	80	-28	3.48	4.6	7
1925	31.6	69	-10	1.43	4.8	4
1926	32.6	75	-12	2.16	2.4	6
1927	29.9	74	-11	2.81	2.9	6
1928	36.2	81	0	2.29	1.4	5
1929	35.2	76	-9	1.74	3.7	6
1930	34.2	70	2	1.24	1.9	5
1931	42.7	80	11	2.71	1.7	8
1932	31.2	77	-21	4.74	5.7	7
1933	39.1	78	-7	1.92	0.4	5
1934	31.6	69	-3	1.80	5.0	7
1935	30.7	66	-11	1.20	2.8	6
1936	38.4	69	-7	2.82	2.2	7
1937	32.0	66	-2	2.24	0.6	9
1938	35.9	72	2	1.83	0.2	6
1939	38.8	80	-5	1.45	6.3	6
1940	38.6	78	-2	2.59	1.7	8
1941	39.6	72	3	2.21	2.1	6
1942	32.7	76	-4	4.01	7.4	10
1943	31.3	72	-20	2.10	6.8	6
1944	29.1	70	-14	2.26	5.1	8
1945	27.8	70	-20	1.39	7.9	8
1946	40.2	77	-8	2.44	0.5	5
1947	37.7	73	7	1.84	1.1	5
1948	37.1	81	-26	2.18	4.2	7
PERIOD	34.3	83	-29	2.19	3.5	6

See reference notes following Station Index.

DAILY PRECIPITATION

able 3

Station	Day of Month																															Total
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
dvance AP z		T		T	.36									1.39	.81	.30		.02						.64	T			1.56	T			5.08
lbany					.15				.13					.15				.02					.02	.55	.03			.11	.02			1.18
lton 8 ENE			.52		.20										2.28	.02									1.30			1.00				5.32
ltona					.25													.20						.22				.05	.08			.80
mity					.26			T	.11		T			.07	T			.03	T				.03	.46	.17			.11	.05			1.29
msterdam r					.31									.03									.17	.15				.17				.83
nderson 2 SW		T													1.47				.02					.34				.35	.25			2.43
nnapolis			.07		.18	.03									1.56	.03			T					.34	.44			.01	1.13			3.79
ppleton City z					.05									.02			.25						.08	.25	.02			.25				.92
rcadia					.35										.85	.05								T	.05		T	.40	1.40			3.10
shton 1 W					.18									.20	.75			.16					.04	.07				.36	.05			1.81
uxvasse					T				T					.12	.09			.25					.20	.55	.03			.42	T			1.86
edford 1 S r									.07					.15	.25								.17	.50		.01	.01	.19	.06			1.41
elleview z			T	T	*	.22									.50	.23		T						.07	.37				.62	.T		2.01
ernie			.30		.50	T									2.10	.50			.20				T	.60	1.40			.20	1.00			6.80
ethany					.15				.15					.12	.05			.11					T	.36	.02			T	.20			1.16
irch Tree			.13												2.30									.26	.74			T	.84			4.27
loomfield			T	T											1.64	.30		.10						.40	.85			.20	.92	T		4.41
olivar z		.01												.75	.08			T					.03	.44	.02			.16	.02			1.51
oonville										T					.11			.15	T					.43	.05			T	.32			1.06
oonville Waterworks										.02					.15			.08						.45	.06			.13	.16			1.05
owling Green															.29				.03					.49					.48			1.29
radleyville			.23												1.34								.43	.19				.13	.16			2.48
rookfield					.34				.05						.47									.50	.09			.11	.23			1.79
rowning 3 NE					.29				.05					.23	.69			.07	T				.02	.47	.03			.33	.05			2.23
runswick					.13				.01	.04					.17			T	T					.43	.12			T	.27			1.17
uffalo			.04												.63				T					.35	.21			.04	.13			1.40
unker			.02		.05									.02	1.55				T						.25			.20	1.80			3.89
urlington Junction				.10	T				.22						.30									1.50	.14			.30				2.56
utler					.25									.01	.03			.19	T				.10	.28	.02			.14	T			1.02
Camdenton														*	.73			.25					T	T					.18			1.16
Campbell			.08		.30									.16	3.00			T	.04				T	1.35	.08			.12	.94			6.07
Canton Lock Dam 20					.02					.02		T		T	.67				.08	T				.25	.05			T	.46	.03		1.58
Cap Au Gris L & D25 r					.03									.23	.04			.12					.17	.41	.02			.57				1.59
Cape Girardeau Mo St					.50								T	.45	1.14	.86		.03	.02					.80				.28	1.27	.01		5.36
Cape Girardeau					.44	.02								.02	1.78	.76			.04					.10	.24			.04	1.46			4.90
Caplinger Mills														.29	.03			T					.02	.29	T			.40	T			1.03
Carrollton					.11				.07					.20	.16			.04					.17	.56	.07			.23				1.61
Carthage			.15												.60				.02					.07	1.19			*	.39			2.42
Caruthersville			.18		.14	.10								T	1.00	1.98			T					.28	1.80			.17	.82	T		6.47
Cassville Rgr. Sta. z			.11		.02										1.37				T				T	.47	.21			.13	.34			2.65
Centerville			.04		.20	.08									.92	.14			.03					.21	.64			T	.94	T		S.20
Centerville R Sta			.05		.26										.89	.05			.03					.12	.22			.08	.84			2.54
Centralia										T					.11			.12						.70	.08				.09	.33		1.43
Chadwick			.06												1.53									T	.65					.35		2.59
Chillicothe 2 S					.30				.06	T					.56			T	.01					.80	.09			.12	.17	T		2.11
Chillicothe AP CAA									.11					.22	.27			.02					.08	.49	T			.24	.12			1.55
Clarksville L&D 24 r //					.02							.09		.21	.09			.04					.11	.50				.51				1.57
Clearwater Dam Site z			.14		.15	.02									1.18	.13			T					.19	.39			.02	1.15			3.37
Clifton City									T					.12				.22					.03	.02			.14	.06				.59
Clinton z														.02				.31					.11	.20				.23	T			.87
Columbia WB Arpt				T					T					.16	T			.13	T				.19	.20	T			.60	T			1.28
Columbia WB City z				T					T					.23	T			.19	T				.25	.35	T			.44	T			1.48
Columbia U of Mo z									T					.09	.04			.20	T				.08	.40	.06			.32	T	T		1.19
Conception					.24				.16					.24	T			T					.03	.49	.11			.07	.03			1.37
Concordia					.10				T						.07				.14					.18	.66			.26				1.41
Cook Station					.07										.77	.06									.49				.33			1.72
Crane Mountain			.03		.28										1.22									.40	.16			.19	1.22			3.50
Crocker		T			T									*	.68			.04	T				T	.43	T	T		.29	T			1.44
Crystal City					.13									.39	.26			.08	.11				T	.52	T			T	.45			1.94
Deering			.03		.23	T									1.77	2.05								.34	1.94			.13	.82			7.31
De Soto					.20									.36	.27			.19	.04				T	.32	.03			.27	.15			1.83
Dexter			.07		.38	.04									1.25	.18		.18	.06					.06	.77			T	.81			3.80
Doniphan		.02	T		.20									.95	1.63			.02						1.36	.05			.96	.48			5.67
Doniphan 2 W					.40										2.40	.05			.04					.55	.77			.04	1.50			5.75
Dora r		.22		.12	.08									1.83	.10									1.00				.63				3.98
Downing r					.20				.03					.20	.20			.20					.05	.15				.50	.06			1.59
East End			T		.40										.90									T	.70				.80	T		2.80
Edgerton					.22				T	.10					.10									.40	.06			.10	.03			1.01
Edina					.10					.05				T	.55				.13					.32	.07				.30			1.52
Eldon									T					.40	.17			.41					.03	.32	.02			.21	.01			1.57
Eldorado Springs		T			.05									.40				.16					.03	.05				.47	.T			1.16
Elijah			.68		.30										2.10	T								*	.40			*	1.78			5.26
Ellington z			.08		.07	.08									1.36	.06			T					.30	.45				1.01			3.41
Elsinore		T	.02		.10									1.04	.85	.75		T							.40			.59	.79			4.54
Elsberry					.05										.29				.15					.66	.15	T		.05	.52			1.87
Eminence r		.05		.04	.16									1.19	.16									.87				.72				3.19
Fairfax					T	.03			.17						.18				T				T	*	.45			.08	.24			1.15
Farmington z			.03		.14	.06									.42	.12		T	.04					T	.37				.58	T		1.76
Fayette					T				.01					.14	.01			.05					.12	.39	T			.36				1.08
Fisk			T	.40	T										1.98	T			T					.45	.77			T	1.00	T		4.60
Forsyth z			.25		.20										1.25									.50	.35			.10	.15			2.80
Fredericktown			T		T	.12									.64	.04			T					.15	.40				.94			2.29
Fulton 4 SW z										T					.42			.17	.10					.50	.04			.02	.49			1.74
Galena			.11		.28										1.62				.02					.60	.19			.10	.32			3.24
Gallatin									.11	.02					.32				T					.63	.13			.16	.12			1.49
Gerald									T					.11	.30			.32					.15	.34				.37				1.59
Granby			.24												1.07				T				T	.21				.18	.41			2.11
Grant City z					.25				.05					.12				T					.01	.19	T			.09	.05			.76
Greenville 1 SW			.07		.24	.01									1.60	.62								.43	.57			.02	1.23			4.79
Hailey		.09												1.25										.50		T		.65	T			2.49
Hamden r					.35				.09					.17	.58								.16	.45				.32	.03			2.15
Hannibal					T	T				T		T			.30				.04					.40	.10				.15	T		.99
Hannibal Waterworks									T					.11				.02					.07	.56				.58	T			1.34
Harris r					.40				.06					.33									.05	.36				.31	.19			1.70
Harrisonville					.20										.01	.10	.03							.50	.03			.04	.10			1.01
Hermann															.30			.40						.15				.04				.89
High Lookout		.20			.19									1.47	.36			.02	T				T	.90				.54	.35			4.03
High Point 2 NE r														.55	.04			.46					.16	.27	.03			.30	.02			1.83
Hornersville r		.05		*	.21									1.05	1.93	.12								-	-	-	-	1.35				-
Houston 1 W r		.05		.02	.02						.03			.70	.05									.55	.09		.10	.54				2.15
Jackson			T		.50								.01	.55	1.22	.20		T	T					.72	.02			.43	.98	T		4.63
Jeff City Radio										T					.70			.15	.10					.45	.02	T		.09	.18	T		1.69
Jefferson City z										T					.60			.13	.11					.43	.02			.10	.20	T		1.59
Jerome					.12										.64				.08					.20	.18			.12	.21			1.55
Jewett r		.05			.20									.76	.15									.90				1.26	.02			3.34
Joplin AP CAA		.92						T										T					T	.80	T			.38				1.20
Kahoka					.18					T				T	.66				.03					.02	T			.04	.36	.02		1.31
K.C. WB Airport z					.24			T	.01					.22	T		T	.03					.31	.32	T			.07	.01			1.21
K.C. 75th & Holmes r					.30									.40									.16	.29				*	.25			1.40
K.C. Univ of K.C. z					.23				.01					.05	.37			.04	T				.07	.60	.03			T	.07			1.47
Keytesville 4 NE					.13				.01	.04					.55			.03						.42	T			.12	T			1.30
Kidder					.10				.10						.30									.43	.08				.01			1.02
King City					.10				.22					.20				T					.06	.50				.05				1.13
Kirksville					.04				.04					.33	.26			.07					T	.34	.03			.24	.02			1.37
Kirksville AP CAA z					.13				.04			T		.35	.33			.12	T				.01	.24				.28	.05			1.55
Koshkonong			.17		.16										2.99	.01			.01					.30	.69			.04	.93			5.30
La Belle					.12				.03						.57			T	.07					.25	.02				.26			1.32
Lakeside z					T										.82			.28	.05					.28	.10			.07	.19	T		1.79
Lamar															.22													.20	.29			.71
Lampe Forest Srv.			.25		.10										1.55				T					.59	.11			.10	.14			2.84
Lampe 4 NNE r		.25			.15									1.81	1.05									.72			.08	.27				4.33
Lathrop 3 SW					.02				.05					.17	.29			.01							.74			.63				1.91
Lebanon z		T			T									.60	.38			.01	.01				T	.74	.07			.16	.01			1.96
Lecoma 3 N r					.15									.64	.08			.02						*	.43			.32				1.64
Leeper			.11		.18	T									1.50	.13			.01					.40	.61			.05	1.17			4.16
Lexington					.13				T	T					.17			.01	T					.51	.10			.08	.05			1.05
Licking 4 N					.30										.82										.35	.95			.12	.18		2.72
Linneus 2 S z					.40				.05					.22	.13			.03				.04	.22		T			.28	.07		T	1.44
Livonia r					.50				.04					.20	.20			.15	.03				.05	.11				.38	.11			1.77
Lockwood z			.04												.36			T						.30	.42		.05	.27	.25			1.69
Louisiana Starks Nur									.03				.12	.15	.13			.08					.02	.65	.10			.60	.05			1.93
Louisiana					.07					T			.03	T	.21				.02					.17	.02			T	.67			1.19
Lucerne z					.29				.06	T					.44				.20					.18	.05			T	.45	T		1.67
Macedonia Lookout			.06		.20	.08									2.86				.05				.20	1.10					1.36			5.89
Macon z					.09					.04					.86			T	.03					.53	.10				.30			1.95
Madison										.03					.15			.04						.20					.15			.57
Mansfield			.07		.26										1.28	.16			.08					.29	.08			.28	.56			3.04
Marble Hill					.24									.34	.30								.74				.64	.18				2.44
Marshall AP z					.04				.03					.04				.06					.30	.36	T			.27	T			1.10

See reference notes following Station Index

DAILY PRECIPITATION

Station	Day of Month																															Total
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Marshfield		.07			.06									1.11	.25		T	T	T				T	T				.37	T			1.86
Martinsburg										T					.19			T	.18					.78	.04			T	.38	T	T	1.57
Maryville					.27				.18					.19	.03								.04	.49				.09	.20			1.49
Maryville 6 NNW r					.23			.01	.09					.16									.03	.22				.26	.07			1.07
McCredie 2 W					.06									.29	.05			.23					.28	29	.04			.58				1.82
McCredie Exp Sta r					.02									.38	.02			.15					.17	.12				.36				1.22
Memphis					.24					.05					.60				.22					.05	.20				.37	.20		1.93
Mercer 6 NW					.20				T					.21	.14				.06					.19	.21		.15	.21	T			1.37
Mexico										.02					.13			.12	.04					.76	.07				.44			1.58
Middletown 2 SW r				.02	.06									.16	.10			.12					.21	.41				.43				1.51
Milan					.22				.10						.45				.10					.50	.10				.36			1.83
Moberly AP 4 NE z									T						.20			T		.04				.40			T		.46			1.10
Monett															1.41										.40			.20	.28			2.29
Monroe City														.12				.07						.66				.36	T			1.21
Mora r														.08	.02			.35					.09	.19	.03			.21				.97
Morehouse			.04		.46									.10	1.30									1.38				.24	.95			4.47
Mountain Grove 2 N z			.09		.10										1.40									.30	.10			.10	.34			2.43
Mount Vernon 3 SW		.04												.74	.19			.03	.02				.03	.46	.02			.25	T			1.78
Neosho		.08												.86	.25			T					.02	.16	.04			.59				1.98
Nevada z		.02			.03									.12	.05			.12					.06	.06	.17			.26	T			.89
New Boston				.10	T				.05					.05	.20	T		T	T					.60	.10			.30	.10	T		1.50
New Florence AP 1SE z					T				T					.29	.02			.17	T				.23	.20	T			.41	T			1.32
New Madrid			T		.43	T									2.07	.56			.11					.16	.63			.15	.62			4.73
Novinger 1 E	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.55	-	-	-	-	-	-	-	-	.20	-	-	-	-	-	-	-	-
Oates Tower			.02		.18							T			1.01	.04			.01					.32	.39			.05	.69	.01		2.72
Odessa					.15					T					.16			.04						.20	.02			.02				.59
Oregon					T	T			.20						.12	T			T					.20	.54			T	.09			1.15
Osceola 3 NE z					.05										.49			.15	.02					.28	.02			.03	.29			1.33
Owensville z															.55				.26					.20	.15			.12	.14			1.42
Ozark			.80		.50										1.50				.03					.23	.18			.07	.11			3.42
Ozark Beach			.28		.19										1.28									.53	.28			.12	.14			2.82
Pacific					.14										.55			T	.13					*	.57				.30			1.69
Palmyra									T						.11			T							.40				.70			1.21
Paris				T						T					.14			.04	.02					.26	.03			T	.50			.99
Parma			T		.37	T									2.63	.73			.03					.32	1.28			.09	1.00			6.45
Pattonsburg r					.17				.19					.13				.01					.05	.55				*	.20			1.30
Perry 1 E z														.10				.05					.03	.70				.50				1.38
Perryville					.19									.47	.10		-		T					.36	T			.55	.12			1.79
Philadelphia					.22				T					T				T						.38				-				-
Pierce City			.04												1.21			T					T	.35	.15			T	.34			2.09
Pineview Lookout			.20		.30										1.50				.02					.65	.02			.25	.05			2.99
Pleasant Hill					.12					T					.15			.09	.01					.52	T			*	.14	T		1.03
Poplar Bluff			.02		.28	T									2.22	.02			T					.35	1.00				1.00			4.87
Potosi r				*	.20									.54	.21			.08						*	*	.36		.51	.04			1.94
Puxico			.03		.28	.02								T	1.85	.08			.01					.28	.81			.01	1.42	T		5.29
Qulin				T	.23	.03							T	T	2.11	.40			.07					.28	1.16			.04	1.00			5.40
Reynolds	-	-	-	-	-	-	-	-	-	-	-			1.17										.68	.12			.05	.80			-
Richwoods z					.17	T									.35				.22					.29	.09				T			1.12
Ridgeway 1 SE r					.23				.11					.23	.02			.04					.04	.26				.18	.19			1.30
Roby		.03												.89	.36			.02					T	.95	T			.45	T			2.70
Rogersville r		.05		.03	.22									1.33	.03								.02	.37				.40				2.45
Rolla School of M z					.15										.77									*	.30		.08	.10	.40			1.80
Rolla 5 SE r					.17									.74	.04			.04						.27	.02			.42				1.70
Rolla 3 W r				.04	.11									.70	.02			.04						.32				.33				1.56
Rolla 4 SE r					.15									.90				.05						.30	.03			.35				1.78
Rolla 7 S r					.15									.83				.03					.04	.36	.04			.34				1.79
Round Spring															1.30										.93				.58			2.81
St. Charles				.01	.13	T				T					.21	T			.23					.50	.03			T	.51			1.82
St. James 3 NW r					.13									.49	.06			.05						.16			.07	.35				1.31
St. Joseph WB Arpt z					.12			.02	.10					.15	T		T	T					.15	.54	T			.03	.04			1.15
St. Louis WB Arpt z		T		T	.15				T					.26	.05			.10	T				.18	.38	T	T		.37	T			1.49
St. Louis WB City z		T		T	.27				T					.49	T			.17	.01				.27	.29	.02			.49	T			2.01
St. Louis Univ		T		T	.22				T					.42	.02			.15	.01				.17	.17	T			.61	T			1.77
St. Louis Wash U z					.24										.26				.15					*	.46				.55			1.66
St. Thomas															.68			.16						.32	T			.09	.03			1.28
Salem z			.05		.12										.91	.05			.02					.18	.32		.06	.13	.30	T		2.14
Salisbury					.17				.07					.32				.02					.19	.44	.05			.25	T			1.51
Saverton Lock Dam22					.09	.07				T		T		.01	.15			T	.05					.61	.02			T	.57	T		1.57
Sedalia										T					.03			.11	.09					.35	.06			.11	.13			.88
Seligman															1.53									.27	T			.15	.36			2.31
Seneca r		.07												.93									.04	.28					.47			1.79
Seymour 4 NNE	-	-	-	-	-	-	-	-	-	-				1.05	.14									.54				.37	T			-
Shelbina									.02					.14	.02			.03	.01				.03	.50				.43	.02			1.20
Shelbyville									-					.17										.48					-			-
Shell Knob			.22		.10										2.00				.02					.69	.02			.05	.25			3.35
Sikeston			.05	T	.48	.02								T	1.06	.32			.04					.22	.92	T		.06	1.23	T		4.40
Siloam Springs			.30		.29										1.97										1.10		.58					4.24
Skidmore r					.13			.05	.08									.12					.03	.39	.02		.04	.20	.08			1.14
Speed 2 W r														.15				.13					.09	.23	.01			.31				.92
Spring City r		.03			.02									.60									.15	.35				.28				1.43
Springfield WB Apt z		.03	T	T	T									1.18				.01	T				.02	.57	T	T	T	.20	T			2.01
Stanberry r					.15			.02	.16					.16				.02					.08	.67				.15				1.41
Steelville 2 NNE z					.11									.31					.06					.20	.10			.22	T			1.00
Steffenville z					T				.02					.17	.69			.04	.03					.40	.03			.42	.03			1.83
Stover															.38			.40	.03					.32	.05				.29			1.47
Sugar Camp Lookout			.13		.41									T	2.25				T				T	.04				.95	T			3.78
Sullivan 3 SE z					.12										.33			T	.14					.28	.08			T	T			.95
Summersville			.09		.16										1.65	.16								.40	.10			.30	.64			3.50
Sumner 2 SW					.22				.08	.03					.43			.01	.02					.75	.11			.10	.15	T		1.90
Sweet Springs					.22				T					.12	T			.05					T	.32	T			.23				.94
Tarkio AP CAA z					.35			.02	.11					.02	T		T	T	T	T			.04	.26	T			.29	.07			1.16
Tecumseh			.20		.41										2.42									.48	.30			.32	.41			4.54
Topaz			.25												1.45			T						.15	.57				.45			2.87
Trenton z					.31	.01			.07	.01				T	.25				.02					.24	.26			.14	.31	.02		1.64
Troy					T					T					.23				.14					.53	T			T	.55	T		1.45
Union 2 SE					.07					T					.39			.01	.14					.45	.05			.07	.30			1.48
Unionville					.31	T			.02	.03				T	.32				.15					.18	.11				.48	.06		1.66
Valley Park			T		.25										.25				.12					.65	.10				.10			1.47
Van Buren															.88									*	.78				.90			2.56
Vandalia														.08	.10			.10					.10	.50	.05			.63	T			1.58
Vanzant															1.92									*	.85			*	.40			3.17
Vichy 2 SE r				.02	.08									.46	.02			.04					.03	.27				.33				1.25
Vichy AP CAA 2 NW		T		T	.09				T					.42	T			.11	T				.02	.28	T			.36	.03			1.31
Vienna 3 NW r				.02	.02									.34	.10			.10					.06	.17	.12			.30				1.23
Villa Ridge 3 NW r					.06									.43	.02			.15	.02				.20	.23	.02			.40				1.53
Waco														T										.70				T				.70
Wappapello Dam z			.02		.29	T									2.39	.29			T					.33	.95			.04	1.20	T		5.51
Warrensburg Central															.17			.28						.42	.06			.06	.10			1.09
Warrensburg 4 E r					.15									.07				.29					.17	.34	.02			.23	.02			1.29
Warrenton					T				T.					.07	.25			.27					.18	.41	.15			.51				1.84
Warsaw No 1															.37			.21	T					.27	T			T	.26	T		1.11
Warsaw No 2															.39			.25	T					.54	T			T	.28			1.48
Washington 3 S r				.02	.04				.01					.25	.04			.26					.24	.29				.37				1.52
Wasola z			.28		.06										1.39	.09								.48	.39	.16			.21			3.08
Waverly					.10										.26			T						1.25				.20	.25			2.06
Webster Groves					.28				T					.13	.23			.20	.02				.26	.23	T			.51	.04			1.90
Weingarten					.10									.38	.10									.05	.05			.90				1.58
West Plains z		.18	T	.08	.12									1.24	.52			T	T				T	.99	T		T	.77	T			3.90
Williamsburg r				.02	.02									.30	.08			.09					.17	.21				.38				1.27
Williamsville			.09		.25										3.09	1.10								.41	.85			.04	1.22			7.05
Willow Springs			.17		.17										2.48	.07								.54	.32				.71			4.46
Willow Springs F.S. r		.15		.12	.04									2.02	.28			.02						.84				.72				4.19
Windsor 3 NW															.04			.17	.03					.36	.05			.04	.18			.87
Zalma					.37	.03									2.00	1.08								.36	.34			.09	1.10			5.37

Delayed Data

October 1948																																
La Belle							1.77	T			.03										T									.25		2.05
Madison						1.70										.40														.85		2.95
November 1948																																
Kansas City WB Airport	1.00	.19		T	.05				T			T				.03		.09	.06		T	T					.15	.12				1.69

See reference notes following Station Index.

Table 4

HOURLY PRECIPITATION

Station	A. M. Hour ending												P. M. Hour ending												Total
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	
-2d-																									
Advance AP																			.01	.02	.01				.04
Alton 6 ENE									*	*	*	*	*	*	*	*	*	.52							.52
Bolivar																	.01	.01							.02
Cassville Ranger Station											.08	.03													.11
Clearwater Dam Site																.01	.09	.01	.03						.14
Dora														.17	.02	.01	.02								.22
Ellington																.01	.04								.05
Eminence																.03			.02						.05
Farmington																		.03							.03
Forsyth												.11	.13		.01										.25
Hornersville																			.01			.03	.01		.05
Houston 1 W															.01	.02		.02							.05
Jewett																	.02	.01		.02					.05
Joplin AP CAA 6														*	*	*	*	*	.02						
Lampe 4 NNE											.10	.15													.25
Lebanon																.01	.01								.02
Lockwood														.03	.02										.05
Mountain Grove 2 N														.01	.07	.02		.01							.11
Nevada													*	*	.02										.02
Rogersville														.03	.02										.05
Salem																.02	.02								.04
Seneca									.07																.07
Spring City											.01		.01		.01										.03
Springfield WB Airport 4 NW													.01	.02											.03
Wasola													.05	.17	.01	.01	.02	.01							.27
West Plains														.04	.14	.01									.19
Willow Springs Forest Service														.02	.09		.03	.01							.15
-3d-																									
Wappapello Dam	.01																								.01
-4th-																									
Advance AP																								.01	.01
Alton 6 ENE														.01	.04	.05	.05	.05							.20
Cassville Ranger Station		.01	.04																						.05
Clearwater Dam Site																								.02	.02
Dora																							.06	.06	.12
Ellington																								.05	.05
Eminence																								.04	.04
Forsyth																							.01	.01	.02
Hornersville									*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Houston 1 W																								.02	.02
Middletown 2 SW																								.02	.02
Mountain Grove 2 N																							.01	.05	.06
Perry 1 E																								.01	.01
Potosi 2 S																		*	*	*	*	*	*	*	*
Richwoods																								*	*
Rogersville																								.03	.03
Rolla 3 W																			.01				.03		.04
Sullivan 3 SE							*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Vichy 2 SE																								.02	.02
Vienna 3 NW																							.01	.01	.02
Wappapello Dam																								.03	.03
Washington 3 S																				.01		.01			.02
Wasola																							.03	.03	.06
West Plains																							.03	.07	.10
Williamsburg																								.02	.02
Willow Springs Forest Service																							.05	.07	.12
-5th-																									
Advance AP	.08	.06	.06	.01		.04	.04	.03	.03	.01															.36
Amsterdam				.31																					.31
Appleton City				.08																					.08
Ashton 1 W						.05	.10		.03																.18
Belleview	.03	.07	.05			.02	.03	.05																	.25
Cap Au Gris Lock & Dam 25		.02	.01																						.03
Chillicothe AP CAA 6		*	*	*	*	*	.22																		
Clarksville Lock & Dam 24 //		.01		.01																					.02
Clearwater Dam Site	.04	.05	.03	.01				.01	.02																.16
Dora	.07	.01																							.08
Downing					.05	.11	.01	.03																	.20
Ellington	.06	.04	.01	.02	.01	.01	.02	.02																	.19
Eminence	.05	.04	.01				.01	.05																	.16
Farmington		.06	.06	.02		.02		.05	.03																.24
Forsyth	.02		.01		.12	.03																			.18
Grant City			.04	.16		.01	.04		.03																.28
Hamden					.09		.21										.01	.04							.35
Harris			.06	.10	.15	.04	.03	.02																	.40
Hornersville	*	*	*	*	*	*	*	*	*	.20	.01														.21
Houston 1 W	.02																								.02
Jewett	.03	.07	.04	.01		.01	.01		.03																.20
Joplin AP CAA 6		*	*	*	*	*	.16																		
Kansas City WB Airport			.17	.07																					.24
Kansas City 75th & Holmes		.01	.21	.08																					.30
Kansas City Univ. of K. C.	.02	.03	.15	.10																					.30
Kirksville AP CAA				.01	.02	.07	.10	.12										.02	.01						.35
Lampe 4 NNE				.12	.03																				.15
Lebanon	.02	.01																							.03
Lecoma 3 N	.07	.06	.02																						.15
Linneus 2 S			.03		.12	.09	.16																		.40
Livonia					.12	.18	.11	.09																	.50
Lucerne	.01	.01		.06	.06	.11	.03																		.28
Macon					.01	.02	.07																		.10
Marshall AP CAA					.05		.07																		.12
Maryville 6 NNW		.03	.07	.05		.05		.01	.02																.23
McCredie 2 W	.02					.02		.02																	.06
McCredie Exp. Sta.							.02																		.02
Middletown 2 SW	.04	.01		.01																					.06
Mountain Grove 2 N	.03	.01																							.04
Nevada				.01	.01			.01																	.03
Osceola 3 NE				.04	.01																				.05
Pattonsburg		.01	.04	.10	.02																				.17
Perry 1 E	.02	.01																							.03
Polo					.08	.01																			.09
Potosi 2 S	*	*	*	*	*	*	*	*	*	*	*	*	.20												.20
Richwoods	*	*	*	*	*	*	*	.17																	.17
Ridgeway 1 SE			.03	.10	.10																				.23
Rogersville	.01	.01		.15	.05																				.22
Rolla School of Mines		.14				.01																			.15
Rolla 5 SE	.05	.12																							.17
Rolla 3 W	.01	.10																							.11

See reference notes following Station Index

HOURLY PRECIPITATION

Station		A. M. Hour ending												P. M. Hour ending												Total
		1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	
Rolla 4 SE		.03	.12																							.15
Rolla 7 S		.05	.10																							.15
St. James 3 NW			.10	.02			.01																			.13
St. Joseph WB Airport			.01	.07	.04																					.12
St. Louis WB Airport			.01	.01	.05																					.07
St. Louis WB City		.01	.05	.14	.05																					.27
St. Louis Wash. Univ.		.01	.05	.14	.05																					.25
Salem		.05	.03	.03																						.11
Skidmore			.01	.10	.01	.01																				.13
Spring City				.01	.01																					.02
Stanberry				.04	.10		.01																			.15
Steelville 2 NNE			.06	.06																						.12
Steffenville					.01		.01	.01																		.03
Sullivan 3 SE		*	*	*	*	*	*	.17																		.17
Tarkio AP CAA				.06	.02		.24		.01				.01	.01	.01	.01										.37
Trenton				.05	.12	.13				.01																.31
Vichy 2 SE		.01	.03		.01	.01		.02																		.08
Vichy P CAA 2 NW	6		*	*	*	*	*	.09																		
Vienna 3 NW		.01	.01																							.02
Villa Ridge 3 NW			.02	.04																						.06
Wappapello Dam		.06	.04	.05	.02		.05	.04		.02																.28
Warrensburg 4 E					.04	.04	.07																			.15
Washington 3 S				.04																						.04
West Plains		.08	.02					.05																		.15
Williamsburg		.02																								.02
Willow Springs Forest Ser.		.03	.01																							.04
-8th-																										
Maryville 6 NNW																									.01	.01
Saint Joseph WB Airport																								.01	.01	.02
Skidmore																							.01	.02	.02	.05
Stanberry																									.02	.02
Tarkio AP CAA																								.01	.01	.02
-9th-																										
Bedford 1 S							.03	.01	.01	.01	.01															.07
Chillicothe AP CAA	6		*	*	*	*	*	.08	*	*	*	*	*	.03												
Downing											.01		.01						.01							.03
Grant City				.02	.02	.03																				.07
Hamden									.01	.02	.01	.01				.01		.01	.02							.09
Harris							.01	.01	.02	.02																.06
Kirksville AP CAA										.02	.01		.01						.01							.05
Linneus 2 S									.03	.02		.01														.06
Livonia										.02	.02															.04
Lucerne				.02				.01	.02	.01																.06
Macon											.02	.01		.01												.04
Marshall AP CAA								*	*	*	*	*	*	.03												.03
Maryville 6 NNW		.04	.01	.01	.01	.01	.01																			.09
Pattonsburg		.03	.03	.03		.02	.01	.02	.02	.01	.01	.01														.19
Polo		.01	.01	.01	.01	.01				.01	.01		.01	.01												.09
Ridgeway 1 SE					.01	.02	.02		.01	.01	.02	.02														.11
Saint Joseph WB Airport		.01	.01	.01	.01	.01	.01	.01	.01	.01	.01															.10
Skidmore		.01	.03	.01		.02	.01																			.08
Stanberry		.03	.03	.01	.01	.02	.01	.01	.02		.01	.01														.16
Steffenville													.02													.02
Tarkio AP CAA		.01	.03	.02	.01	.02	.01																			.10
Trenton						.03	.01	.01	.02	.01	.02															.10
Washington 3 S																		.01								.01
-11th-																										
Houston 1 W				.01		.01		.01																		.03
-12th-																										
Clarksville Lock & Dam 24	//	.07	.02																							.09
-13th-																										
Salem																			.02	.01	.01					.04
-14th-																										
Advance AP			.01													.04	.17	.67	.07	.04	.19	.06	.11	.01		1.37
Alton 6 ENE														.01	.06	.26	.56	.35	.05	.02	.01	.03				1.35
Amsterdam																.01			.01			.01				.03
Appleton City											.01	.01	.01	.01												.04
Ashton 1 W															.05		.03	.06		.02	.04					.20
Bedford 1 S												.03	.03	.02	.01	.05	.01									.15
Belleview													.05		.04	.16	.08	.05	.03				.02	.03		.46
Bolivar											.02	.48	.11		.01	.08	.04	.06	.05	.05	.01					.91
Cap Au Gris Lock & Dam 25									.01	.01	.01	.01		.06	.01	.01	.01		.01			.04	.01	.02	.02	.23
Cassville Ranger Station										.02	.08	.22	.23	.15	.18	.17	.12	.05	.02	.05	.01			.01		1.31
Chillicothe AP CAA	6								*	*	*	*	*	.10	*	*	*	*	*	.11	*	*	*	*	*	
Clarksville Lock & Dam 24	//													.02	.06	.02						.02		.03	.06	.21
Clearwater Dam Site													.01		.02	.26	.25	.30	.05	.03	.02		.01			.95
Clinton											.03	.01														.04
Columbia WB Airport	6														*	*	*	*	*	.13	*	*	*	*	*	
Columbia WB City													.02	.04	.09					.01	.02		.03	.02		.23
Columbia Univ. of Mo. 9 NW														.01	.08								.02			.11
Dora													.02	.13	.86	.51	.19	.08	.01	.01	.02					1.83
Downing													.01	.09	.09			.01								.20
Ellington														.03	.06	.26	.50	.14	.02	.01	.02	.09	.04		.01	1.18
Eminence													.03	.01	.21	.31	.37	.15	.01	.03	.01	.02	.03	.01		1.19
Farmington														.01	.05	.14	.10	.04	.04				.01	.03		.42
Forsyth											.02	.04	.34	.34	.20	.18	.08		.01	.03	.01					1.25
Fulton 4 SW													.02	.08	.15					.01	.03	.09	.02			.40
Hamden													.05		.04	.02									.06	.17
Harris											.03	.10	.06	.03	.01		.04	.03		.03						.33
High Point 2 NE													.09	.24		.02	.01	.01		.01	.15	.02				.55
Hornersville																			.08	.33	.36	.17	.10		.01	1.05
Houston 1 W												.02	.08	.10	.23	.12	.10	.04	.01							.70
Jeff City Radio KWOS													.03	.34	.03					.02	.03	.22				.67
Jewett											.01			.02	.03	.15	.20	.21	.03	.02	.02	.02	.05			.76
Joplin AP CAA	6								*	*	*	*	*	.17	*	*	*	*	*	.21						
Kansas City WB Airport										.01	.02	.01												.17	.01	.22
Kansas City 75th & Holmes											.05													.35		.40
Kansas City Univ. of K. C.																			.02	.01	.01		.01	.25		.30
Kirksville AP CAA													.01	.07	.05		.13									.26
Lakeside												.04	.44	.06	.01		.03	.01	.02	.08						.69
Lampe 4 NNE										.01	.03	.10	.30	.70	.14	.28	.17	.02					.01	.01	.04	1.81
Lebanon											.02	.05	.25	.19	.02	.04	.05		.05	.15	.06	.10			.01	.99
Lecoma 3 N													.02	.28	.10	.07	.01	.04			.05	.06	.01			.64
Linneus 2 S												.02	.08	.01	.01	.02	.06									.20

See reference notes following Station Index.

Table 4-Continued

HOURLY PRECIPITATION

Station	A. M. Hour ending												P. M. Hour ending												Total
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	
Livonia											.01	.07	.09	.01	.01		.01								.20
Lockwood											.23	.02	.01	.01	.04	.01	.01	.05							.38
Lucerne										.03	.10	.06	.02	.01	.01	.02	.07		.03	.06				.01	.42
Macon												.01	.03	.04	.04	.01	.01		.01	.01				.02	.18
Marshall AP CAA											.02		.01												.03
Maryville 6 NNW											.01	.01	.02	.03	.02	.04	.03								.16
McCredie 2 W													.06	.12						.02	.02	.02	.05		.29
McCredie Exp. Sta.													.08	.11			.02	.01		.02	.03	.03	.08		.38
Middletown 2 SW												.02	.02		.02					.01	.02	.03	.02	.02	.16
Moberly AP 4 NE											.06	.02	.02	.10											.20
Mora												.05	.01										.01	.01	.08
Mountain Grove 2 N											.10	.08	.12	.30	.12	.16	.02								.90
Nevada																	.13	.06	.01						.20
New Florence AP 1 SE													.03	.05	.02					.01	.07	.12			.30
Osceola 3 NE										.02	.06	.02	.01				.01	.09	.29						.50
Owensville													.05	.24	.04		.02	.01		.05	.07	.01	.01		.50
Pattonsburg									.01	.04	.03	.01	.01		.02	.01									.13
Perry 1 E												.02	.01	.03	.03	.02				.01					.12
Polo										.02	.01	.01				.01								.03	.08
Potosi 2 S									.01	.01			.01	.04	.22	.13	.06	.01			.02	.02		.01	.54
Richwoods													.01	.02	.03	.05	.01	.02	.01	.01	.04	.11	.04		.35
Ridgeway 1 SE										.04	.06				.02	.03	.01			.05		.01	.01		.23
Rogersville									.01	.03	.21	.26	.23	.16	.12	.11	.02	.06	.12						1.33
Rolla School of Mines												.04	.12	.20	.05		.04		.03	.08	.09	.06			.71
Rolla 5 SE												.04	.29	.12	.03	.01	.04		.01	.08	.11	.01			.74
Rolla 3 W										.01	.01	.05	.29	.05	.04	.01	.02		.03	.08	.08	.03			.70
Rolla 4 SE											.03	.02	.10	.43	.02	.02	.03		.03	.06	.11	.03	.01	.01	.90
Rolla 7 S												.04	.38	.20	.05		.03		.02	.05	.05	.01			.83
St. James 3 NW									*	*	*	*	*	*	*	.27	.01	.02		.03	.05	.07	.04		.49
Saint Joseph WB Airport									.02	.01	.02				.02	.01	.01		.02	.03		.01			.15
Saint Louis WB Airport													.09	.04							.03	.02	.03	.02	.23
Saint Louis WB City														.23	.01	.01				.01	.03	.11	.03	.06	.49
Saint Louis Wash. Univ.														.05		.02	.01				.04	.08	.02	.02	.24
Salem												.01	.10	.28	.12	.09	.06			.04	.06	.02			.78
Seneca									.08	.41	.05	.01	.05	.03			.12	.17	.01						.93
Speed 2 W												.02	.11	.02											.15
Spring City								.01	.05	.36	.04		.03	.01		.01	.03	.06							.60
Springfield WB Airport 4 NW										.02	.33	.12	.06	.05	.07	.01	.04	.09	.22	.17					1.18
Stanberry											.05		.01	.02	.02	.01	.04	.01							.16
Steelville 2 NNE													.08	.14	.06	.02	.01	.01		.06	.04	.04			.46
Steffenville												.01	.02	.02	.03	.04	.04	.01	.01		.01				.19
Sullivan 3 SE													*	*	*	*	*	*	*	*	*	*	*	*	*
Tarkio AP CAA											.01	.04	.01	.02											.08
Trenton										.01	.09	.04				.01		.01	.02				.01	.01	.20
Vichy 2 SE												.03	.10	.09	.01		.05		.02	.07	.05	.03		.01	.46
Vichy AP CAA 2 NW 6								*	*	*	*	*	.02	*	*	*	*	*	.24						
Vienna 3 NW													.12	.04		.02	.01		.03	.10	.02				.34
Villa Ridge 3 NW													.19	.05	.03		.01	.01		.02	.07	.02	.02	.01	.43
Wappapello Dam															.09	.62	.41	.07	.22	.16	.04	.13	.01		1.75
Warrensburg 4 E										.01	.04									.01	.01				.07
Washington 3 S											.01	.02	.02	.04	.01	.01	.01	.01		.03	.04	.03	.02		.25
Wasola												.06	.39	.34	.23	.15		.01		.01		.01	.01	.01	1.22
West Plains													.09	.31	.37	.28	.08			.06	.01				1.20
Williamsburg													.03	.07						.02	.03	.12	.03		.30
Willow Springs Forest Service											.01	.02	.11	.99	.69	.13	.03		.01	.01		.01	.01		2.02
—15th—																									
Advance AP		.01		.31	.08	.23	.08	.09	.04	.01														.01	.86
Alton 6 ENE			.03	.12	.15	.18	.31	.14	.01	.01															.95
Ashton 1 W	.01	.15	.45	.14																					.75
Bedford 1 S	.12	.13																							.25
Belleview					.02			.03	.02												.24				.31
Cap Au Gris Lock & Dam 25		.01		.03																					.04
Cassville Ranger Station		.01		.05																					.06
Chillicothe AP CAA 6	.05	*	*	*	*	*	.22																		
Clarksville Lock & Dam 24 //	.04	.02	.01	.02																					.09
Clearwater Dam Site		.01	.04	.04	.02	.05	.05	.02		.01													.12		.36
Columbia WB Airport 6	.03																								
Columbia Univ. of Mo. 9 NW	.01	.01		.02						.01															.05
Dora		.04	.02		.02				.01	.01															.10
Downing		.04	.15						.01																.20
Ellington	.02	.01	.01	.02		.09	.06	.03	.01	.01															.26
Eminence				.01	.01	.09		.04	.01																.16
Farmington	.01				.01				.01	.01											.07				.11
Fulton 4 SW			.01	.02	.04																				.07
Grant City	.02	.02	.01										.02	.06	.02		.02	.04							.21
Hamden	.53	.05																							.58
High Point 2 NE		.02	.01	.01																					.04
Hornersville		.01		.01			.11	.03	.07	.38	.06	.04	.43	.20	.15	.17	.16	.03	.07	.01					1.93
Houston 1 W			.01				.04																		.05
Jeff City Radio KWOS	.02	.03																							.05
Jewett		.01	.01			.03	.06		.03	.01															.15
Kirksville AP CAA	.05	.14	.11										.01												.31
Lakeside		.02	.12	.01																					.15
Lampe 4 NNE	.05	.01	.01	.01		.45	.51	.01																	1.05
Lebanon	.03	.01	.01																						.05
Lecoma 3 N			.01	.02				.05																	.08
Linneus 2 S	.18	.02	.01																						.21
Livonia		.11	.08		.01																				.20
Lucerne	.01																								.01
Macon	.31	.35	.01																						.67
McCredie 2 W	.01		.02	.02																					.05
McCredie Exp. Sta.		.02																							.02
Middletown 2 SW		.02	.06	.02																					.10
Mora		.01	.01																						.02
Mountain Grove 2 N	.01	.02	.07			.10	.23	.08	.02																.53
New Florence AP 1 SE			.03	.01																					.04
Osceola 3 NE		.01																							.01
Owensville		.02	.01																						.03
Polo		.01	.01	.01																					.03
Potosi 2 S									.02	.01		.01								.16	.01				.21
Richwoods		.01																							.01
Ridgeway 1 SE	.01	.01																							.02
Rogersville	.01	.01	.01																						.03
Rolla 5 SE			.01	.03																					.04
Rolla 3 W			.01					.01																	.02
St. James 3 NW	.01		.01				.04																		.06
Saint Louis WB Airport			.01	.01	.03																				.05
Saint Louis Wash. Univ.	.01																								.01
Salem	.01	.01					.06	.03											.05						.16
Steelville 2 NNE	.01	.02	.01																						.04
Steffenville		.52	.11																						.63
Sullivan 3 SE	*	*	*	*	*	*	.40																		.40
Trenton	.04	.01																							.05
Vichy 2 SE	.01	.01																							.02

See reference notes following Station Index.

HOURLY PRECIPITATION

Station		A. M. Hour ending												P. M. Hour ending												Total
		1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	
Vienna 3 NW									.03	.03	.01	.01	.02													.10
Villa Ridge 3 NW		.02																								.02
Wappapello Dam			.01	.08	.04	.10	.17	.11	.05																.02	.58
Washington 3 S			.01		.03																					.04
Wasola		.01	.04	.01	.03	.07														.09						.25
West Plains		.01	.15	.04	.03	.26	.07																.01			.57
Williamsburg		.02	.01	.05																						.08
Willow Springs Forest Service			.01	.01		.07	.04	.04	.01								.07			.03						.28
–16th–																										
Advance AP		.28	.02																							.30
Hornersville				.01	.04	.01	.05	.01																		.12
Wappapello Dam		.08	.21																							.29
–17th–																										
Lakeside																			.01	.01						.02
Lebanon																									.01	.01
–18th–																										
Appleton City				.09	.06	.04	.03			.01	.01															.24
Ashton 1 W														.05	.03		.05	.01	.01				.01			.16
Belleview																			.02							.02
Cap Au Gris Lock & Dam 25											.06	.02	.04													.12
Cassville Ranger Station																	.01									.01
Chillicothe AP CAA	6								*	*	*	*	*	.01	*	*	*	*	*	.01						
Clarksville Lock & Dam 24	//									.01	.02		.01													.04
Clinton				.05	.05	.04	.07	.05	.03	.01																.30
Columbia WB Airport	6		*	*	*	*	*	.06	*	*	*	*	*	.06	*	*	*	*	*	.01						
Columbia WB City						.01	.06	.06	.06																	.19
Columbia Univ. of Mo. 9 NW							.06	.09	.04	.01		.01						.03								.24
Downing													.02	.08	.04	.03		.02	.01							.20
Farmington																			.02	.02						.04
Fulton 4 SW							.07	.13	.10	.02	.01															.33
High Point 2 NE					.01	.07	.10	.08	.03	,.02	.01	.01	.01	.02	.05		.01	.01	.01			.01			.01	.46
Jeff City Radio KWOS							.04	.10	.04	.06			.01	.01										.01	.01	.28
Kansas City WB Airport			.01										.01					.01								.03
Kansas City Univ. of K. C.		.01												.01	.01				.01							.04
Kirksville AP CAA												.02	.01	.02	.01											.06
Lakeside					.02	.05	.03	.12	.05	.03																.30
Lebanon		.01	.01																							.02
Lecoma 3 N																		.01	.01							.02
Livonia												.01	.03	.07	.02			.02								.15
Lucerne												.02	.09	.01			.02			.01	.01				.01	.17
Macon												.01					.01				.01					.03
Marshall AP CAA						.01	.03																			.04
McCredie 2 W								.08	.11	.03	.01															.23
McCredie Exp. Sta.								.04	.06	.03	.01	.01														.15
Middletown 2 SW									.06	.06																.12
Moberly AP 4 NE													.02													.02
Mora					.07	.05	.05	.04	.01	.04	.01		.03	.02	.02	.01										.35
Nevada					.02	.08																				.10
New Florence AP 1 SE								.03	.03	.04	.03															.13
Osceola 3 NE				.01		.09	.05																			.15
Owensville									.05	.07	.06	.02	.01	.02	.02			.01								.26
Pattonsburg									.01																	.01
Perry 1 E									.04	.01																.05
Potosi 2 S													.04					.01	.02	.01						.08
Richwoods												.01	.03	.05	.02			.01	.09							.21
Ridgeway 1 SE											.03	.01														.04
Rolla School of Mines																	.02	.01					.01			.04
Rolla 5 SE																		.04								.04
Rolla 3 W									.02								.02									.04
Rolla 4 SE																	.03					.01		.01		.05
Rolla 7 S											.01	.01													.01	.03
Saint James 3 NW								.01	.02								.01		.01							.05
Saint Louis WB Airport																		.05	.05	.04						.14
Saint Louis WB City														.01				.02	.07	.01	.01	.02	.01	.02		.17
Saint Louis Wash. Univ.												.01			.01			.02	.08	.01	.01					.14
Salem																		.02								.02
Skidmore														.03	.02	.01	.04	.02								.12
Speed 2 W						.01	.05	.04				.02	.01													.13
Springfield WB Airport 4 NW																				.01						.01
Stanberry							*	*	*	*	*	*	.02													.02
Steelville 2 NNE																		.05								.05
Steffenville													.03	.01												.04
Sullivan 3 SE												.04	.01	.01	.01	.01		.02								.10
Trenton												.01	.01		.01											.03
Vichy 2 SE								.01		.02							.01									.04
Vienna 3 NW									.03	.03	.01	.01	.02													.10
Villa Ridge 3 NW												.02	.01		.02	.02		.06	.01		.01					.15
Warrensburg 4 E				.05	.07	.06	.02		.02	.01	.01	.03	.01				.01									.29
Washington 3 S									.01	.01	.02	.04	.02		.02		.01	.11		.01	.01					.26
Williamsburg								.03	.03	.03																.09
Willow Springs Forest Service																	.01			.01						.02
–19th–																										
Jeff City Radio KWOS		.01																								.01
Kirksville AP CAA		.01	.01																							.02
Livonia			.01		.01	.01																				.03
Lucerne		.02	.01																							.03
Richwoods			.01	.01																						.02
Saint Louis WB City					.01																					.01
Steelville 2 NNE				.02	.01																					.03
Villa Ridge 3 NW		.01	.01																							.02
–20th–																										
Moberly AP 4 NE								.02																		.02
–23d–																										
Alton 6 ENE																									.04	.04
Amsterdam										.04	.01	.04	.03	.01										.01	.03	.17
Appleton City													.03	.02	.01									.07	.05	.18
Ashton 1 W																					.01	.02	.01			.04
Bedford 1 S		.01	.01												.01	.03	.02	.01				.02		.01	.05	.17
Bolivar												.02	.01						*	*	*	*	*	*	*	*
Cap Au Gris Lock & Dam 25																	.03			.01		.01	.03	.06	.03	.17
Cassville Ranger Station																								*	*	*
Chillicothe AP CAA	6														*	*	*	*	*	.05	*	*	*	*	*	
Clarksville Lock & Dam 24	//																.01		.01		.01		.01	.04	.03	.11
Clinton															.03										.07	.10

See reference notes following Station Index.

HOURLY PRECIPITATION

Table 4-Continued

Station		A. M. Hour ending												P. M. Hour ending												Total
		1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	
Columbia WB Airport	6														*	*	*	*	*	.07	*	*	*	*	*	
Columbia WB City															.02	.02	.02	.01	.01	.01		.04	.04	.04	.04	.25
Columbia Univ. of Mo. 9 NW															.02	.03	.01	.01	.01	.02	.01	.01	.01	.05	.04	.22
Downing																		.01				.01	.01	.01	.01	.05
Fulton 4 SW															.02	.06	.07	.01	.06	.02	.01	.01	.03	.06	.04	.39
Grant City												*	*	.01												.01
Hamden																	.03	.02				.03	.01	.02	.05	.16
Harris																						.01	.01		.03	.05
High Point 2 NE																.04	.01		.01			.01	.03	.01	.05	.16
Jeff City Radio KWOS																.03	.02	.01			.01	.01	.01	.06	.05	.20
Joplin AP CAA	6																				*	*	*	*		
Kansas City WB Airport														.03	.04	.03	.01		.01				.02	.09	.08	.31
Kansas City 75th & Holmes														.01	.02	.01	.01						.05	.03	.03	.16
Kansas City Univ. of K. C.														.01	.01	.03						.01	.04	.05	.03	.18
Lakeside																									.07	.07
Lebanon																								.01	.03	.04
Linneus 2 S																									.05	.05
Livonia																					.01	.02		.01	.01	.05
Lockwood											.01	.02						.01								.04
Lucerne																						.01	.02		.01	.04
Macon														.01	.01	.01	.01	.01							.01	.06
Marshall AP CAA															.01	.01		.03	.01			.01	.07	.07	.06	.27
Maryville 6 NNW																		.01			.01	.01				.03
McCredie 2 W															.04	.04	.02	.01	.01	.01	.01		.03	.05	.06	.28
McCredie Exp. Sta.															.02	.02	.02	.02	.01	.01	.01		.02	.02	.02	.17
Middletown 2 SW															.02	.02	.02		.01	.01	.01	.01	.02	.04	.05	.21
Moberly AP 4 NE																		.02	.01			.02	.01	.02	.04	.12
Mora																.01		.01				.01		.02	.04	.09
Nevada												.02	.03	.01										.01	.06	.13
Osceola 3 NE													.02	.01										.06	.06	.15
Owensville																		.02	.04		.01	.01	.02	.02	.05	.17
Pattonsburg														.01	.01	.02	.01									.05
Perry 1 E																						.01	.02	.01	.02	.06
Polo																.04	.04	.01	.01	.01	.01	.01		.07	.03	.23
Richwoods																		.02	.01					.01	.04	.08
Ridgeway 1 SE																				.01	.01	.02				.04
Rogersville												.01	.01													.02
Rolla 7 S																						.01	.02		.01	.04
St. Joseph WB Airport																.01	.01	.02	.01	.01	.01	.01	.01	.02	.04	.15
Saint Louis WB Airport																	.04	.01	.01				.03	.06	.01	.16
Saint Louis WB City																	.07	.08		.02			.02	.02	.06	.27
Saint Louis Wash. Univ.																	.05	.03	.01	.01				.01	.06	.17
Seneca									.02	.02																.04
Skidmore																.01	.01								.01	.03
Speed 2 W																	.02	.01				.02	.01	.02	.01	.09
Spring City							.01	.02	.03	.03	.02							.01			.01				.02	.15
Springfield WB Airport 4 NW												.01	.01													.02
Stanberry																		.03	.02				.01	.01	.01	.08
Steffenville																									.02	.02
Sullivan 3 SE																									.06	.06
Tarkio AP CAA													.01			.01										.02
Trenton																						.03	.01	*	*	*
Vichy 2 SE																								.01	.02	.03
Vichy AP CAA 2 NW	6																				*	*	*	*	*	
Vienna 3 NW																								.02	.04	.06
Villa Ridge 3 NW																.03	.04	.03	.03	.01	.01				.05	.20
Warrensburg 4 E																				.01	.02	.01	.01	.04	.08	.17
Washington 3 S																.04	.08	.02	.04	.01		.01		.01	.03	.24
West Plains									.01	.01	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Williamsburg															.01	.04		.02	.01	.02			.02	.03	.02	.17
–24th–																										
Advance AP			.07	.01		.05	.10	.01	.05	.02	.16	.04	.04	.06	.09	.05										.75
Alton 6 ENE			.01	.01	.04	.17	.01	.07	.07	.20	.08	.04	.21	.10	.01		.03	.03	.03	.02	.02	.01	.01			1.17
Amsterdam		.01	.01	.06	.01	.01			.01				.01	.03												.15
Appleton City		.04		.02		.02	.02	.01																		.11
Ashton 1 W		.01		.01	.02	.01	.01	.01																		.07
Bedford 1 S		.02	.09	.11	.09	.04	.05	.05										.02	.01		.01	.01				.50
Belleview					.02	.02	.01	.05	.05	.01	.09	.05	.05													.35
Bolivar		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.45	.48
Cap Au Gris Lock & Dam 25		.07	.04	.03	.05	.05	.09	.04	.01												.01	.01	.01			.41
Cassville Ranger Station		*	*	*	*	*	*	*	*	.69																.69
Chillicothe AP CAA	6	.03	*	*	*	*	*	.38	*	*	*	*	*	.01	*	*	*	*	*	.02	*	*	*	*	*	
Clarksville Lock & Dam 24	//	.07	.03	.04	.07	.08	.05	.06	.05	.03	.01	.01														.50
Clearwater Dam Site			.04	.01		.03	.07	.04	.05	.12	.08	.02	.03	.05	.04			.01								.59
Clinton		.03	.03	.05	.03	.07	.01																			.22
Columbia WB Airport	6	.12	*	*	*	*	*	.14	*	*	*	*	*	.02							*	*	*	*	*	
Columbia WB City		.05	.03	.06	.05	.07	.03	.01												.03	.02					.35
Columbia Univ. of Mo. 9 NW		.05	.02	.04	.04	.05	.05	.01												.02	.02					.30
Dora					*	*	*	*	*	*	*	*	*	*	1.00											1.00
Downing		.01	.01	.02	.01	.02	.02	.01	.01	.04																.15
Ellington		*	*	*	*	*	*	*	*	*	*	*	*	*	.85											.85
Eminence						*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.87			.87
Farmington					.01	.02	.02			.07	.11	.04	.05		.03	.02										.37
Forsyth		.02	.01	.14	.13	.05	.05	.09	.13	.06	.01	.07	.03	.02	.01			.01	.01							.84
Fulton 4 SW		.06	.01	.09	.01	.09																				.26
Grant City												*	*	*	*	*	*	*	.19							.19
Hamden		.04	.04	.07	.09	.06	.03	.05	.01											.03	.01	.02				.45
Harris		.02	.02	.06	.02	.03	.06	.01			.01	.01	.01	.01			.01	.03	.02	.02	.01	.01				.36
High Point 2 NE		.09	.05	.03	.03		.04													.01	.02					.27
Hornersville							.21	.24	.03		.11	.15	.37	.22	.31	.21	–	–	–	–	–	–	–	–	–	–
Houston 1 W		.02	.01	.02	.02	.04	.01	.03	.12	.10	.02	.07	.01	.05			.03									.55
Jeff City Radio KWOS		.07	.07	.04	.06	.01	.04															.01	.01	.01	.02	.34
Jewett		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.90									.90
Joplin AP CAA	6	.03	*	*	*	*	*	.19	*	*	*	*	*	.57	*	*	*	*	*	.01						
Kansas City WB Airport		.01	.03	.07	.02	.05	.04									.02	.01	.02	.04	.01						.32
Kansas City 75th & Holmes		.02	.04	.08	.05	.03			.01	.01							.01	.02	.02							.29
Kansas City Univ. of K. C.		.02	.02	.08	.03	.05	.01											.01	.01	.01						.24
Kirksville AP CAA		.04	.01	.04	.01	.02	.03		.03	.02									.04	.01		.01				.26
Lakeside		.05	.04	.05	.04		.04						.01	.04					.01	.01	.01	.02				.32
Lampe 4 NNE		.03		.25	.11	.04		.07		.09	.05	.01	.02	.02		.03										.72
Lebanon		.03	.05	.02	.04	.04	.03	.02		.15	.07	.08			.01					.01			.01			.56
Lecoma 3 N		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Linneus 2 S		.01	.09	.08	.03	.06	.02	.01																		.30
Livonia			.01	.01	.03	.01	.03														.01	.01				.11
Lockwood				.01		.10	.15	.02	.08	.10	.04		.04		.01	.01		.01	.01	.02		.01				.61
Lucerne		.01	.01	.03	.04	.02			.02									.01	.01		.01	.01			.01	.18
Macon		.04	.02	.09	.11	.11	.02	.02	.03	.02									.01	.03	.02	.01		.01		.54
Marshall AP CAA		.07	.02	.05	.05	.05	.03	.02																		.29
Maryville 6 NNW			.01	.03	.05	.03	.01							.01	.01	.02	.03	.01	.01							.22
McCredie 2 W		.04	.02	.05	.03	.04	.07	.01	.02	.01																.29
McCredie Exp. Sta.		.02	.02		.02	.02	.02	.02																		.12
Middletown 2 SW		.05	.05	.03	.04	.04	.10	.02	.02												.03	.03				.41
Moberly AP 4 NE		.02	.02	.02	.04	.06	.01	.01																		.18
Mora		.04	.02		.09	.01	.01													.01	.01					.19

See reference notes following Station Index.

HOURLY PRECIPITATION

Station		A. M. Hour ending												P. M. Hour ending												Total
		1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	
Mountain Grove 2 N				*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.61			.61
Nevada		.02	.01		.01	.04	.01			.01				.01		.01	.01	.01	.01							.15
New Florence AP 1 SE															.02	.03	.01	.01	.02	.01	.01		.01	.04	.01	.17
Osceola 3 NE		.03	.02	.01		.03			.01																	.10
Owensville		.08	.07	.05	.03	.03	.01	.01	.06	.01																.35
Pattonsburg		.02	.08	.05	.10	.09	.01	.04	.01				.01		.01		.03	.05	.02	.02	.01					.55
Perry 1 E		.04	.02	.02		.05	.02	.02	.02																	.19
Polo		.02	.05	.06	.03	.02	.05	.02	.01		.01							.03	.04	.01			.02	.02	.01	.40
Potosi 2 S			.01		*	.01	.02	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Richwoods		.02	.05	.04	.04	.01	.02	.01	.01		.04		.01										.01	.02		.28
Ridgeway 1 SE		.01	.04	.05	.05	.05	.01		.02	.03																.26
Rogersville		.01	.02	.03	.04		.02	.12	.07			.03	.02	.01												.37
Rolla School of Mines		.01	.02	.01		.01		.05	.03	.04	.03	.05	.04		.01											.30
Rolla 5 SE		.02	.01		.02			.01	.01	.05	.05	.07	.03													.27
Rolla 3 SW		.01	.02		.02	.02	.02	.04	.02	.06	.04	.04	.02	.01												.32
Rolla 4 SE		.03	.01	.01	.01	.03		.06		.06	.01	.08														.30
Rolla 7 S		.01	.02	.01	.02	.01	.01	.03		.08	.04	.09	.02	.02												.36
Saint James 3 NW		.01	.02			.02	.01	.01		.03	.01	.03	.01	.01												.16
Saint Joseph WB Airport		.06	.08	.09	.07	.05	.03									.01	.03	.03	.02	.01	.01	.02	.01	.01	.01	.54
Saint Louis WB Airport		.05	.05	.07	.06	.04	.08	.03	.02													.02	.01	.01		.44
Saint Louis WB City		.04	.03	.02	.04	.03	.07	.01	.01													.03	.01			.29
Saint Louis Wash. Univ.		.03	.05	.05	.05	.01	.06		.02																	.27
Salem			.01	.01	.02	.02	.01	.05	.04	.14	.03	.07	.01	.03	.04							.01		.01		.50
Seneca			.02	.02			.12	.02			.02	.06	.02													.28
Skidmore		.03	.01	.06	.07	.05			.02						.03	.03	.04			.02	.01	.01	.01			.39
Speed 2 W		.04	.01	.02	.02	.06	.04													.02	.01				.01	.23
Spring City		.01	.01	.01		.02	.05	.06		.09	.03	.03	.02	.01		.01										.35
Springfield WB Airport 4 NW				.01	.03	.02	.05	.03	.27	.01	.08		.03	.02	.01										.01	.57
Stanberry		.02	.05	.05	.10	.10			.03	.01	.01		.03	.02	.01	.04	.05	.05	.05	.01	.04					.67
Steelville 2 NNE		.04	.01	.01	.02	.02	.02	.01	.01	.03	.03	.04	.01	.03	.01											.29
Steffenville		.02	.08	.05	.05	.04	.05	.02	.01	.04	.02															.38
Sullivan 3 SE		.04	.04	.06	.03	.02					.02					.01							.01	.02	.01	.26
Tarkio AP CAA		.01	.01	.06	.05	.02		.01				.01	.01	.02	.01	.02	.01									.24
Trenton		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.36			.01	.02	.01	.44
Vichy 2 SE		.03	.03	.04	.03	.01	.02	.01		.03	.04		.03													.27
Vichy AP CAA 2 NW	6	.02	*	*	*	*	*	.21	*	*	*	*	*	.07												
Vienna 3 NW		.06	.03	.01	.02	.01	.01						.01												.02	.17
Villa Ridge 3 NW		.05	.05	.05	.01	.03																.01	.01	.01	.01	.23
Wappapello Dam		.01	.07	.01		.01	.09	.04	.11	.18	.26	.11	.05	.13	.11	.01	.01	.01								1.21
Warrensburg 4 E		.03	.05	.06	.07	.07													.03	.01	.01		.01			.34
Washington 3 S		.04	.06	.05	.03		.06	.01														.01	.02	.01		.29
Wasola			*	*	*	*	*	*	*	*	*	*	.98													.98
West Plains		*	*	*	*	*	*	*	*	*	*	*	*	1.03												1.05
Williamsburg		.03		.04	.01	.05	.03	.02	.03																	.21
Willow Springs Forest Service				*	*	*	*	*	*	*	*	*	*	.84												.84
–25th–																										
Belleview											.01	.01	.04	.04	.01											.11
Cap Au Gris Lock & Dam 25			.01		.01																					.02
Chillicothe AP CAA	6	.08																								
Clinton												.01	.01													.02
Columbia WB Airport	6	.04																								
Columbia Univ. of Mo. 9 NW										.01		.02														.03
High Point 2 NE												.01	.01				.01									.03
Houston 1 W			.01	.01									.02	.03	.02											.09
Jeff City Radio KWOS		.01	.01																							.02
Lakeside															.01				.01	.01						.03
Lebanon		.01	.01	.01										.02	.01	.01										.07
Lecoma 3 N		*	*	*	*	*	*	.43																		.43
Lockwood														.04	.03	.03										.10
Lucerne		.01	.01																							.02
Marshall AP CAA		.01	.01	.01																						.03
McCredie 2 W						.01	.01	.01	.01																	.04
Mora				.01	.01	.01																				.03
Nevada														.01	.03	.01										.05
New Florence AP 1 SE		.04	.01	.02	.02	.02	.02	.01		.02																.16
Osceola 3 NE												.01	.01	.02	.01											.05
Richwoods				.01	.01																					.02
Rolla School of Mines									.01	.01			.03	.05												.10
Rolla 5 SE				.01		.01																				.02
Rolla 4 SE				.01	.01	.01																				.03
Rolla 7 S													.03	.01												.04
Saint Louis WB City				.01	.01																					.02
Salem													.08	.02	.01											.11
Skidmore			.01	.01																						.02
Speed 2 W		.01																								.01
Trenton		.01			.03	.02	.01																			.07
Vienna 3 NW							.01			.01	.03	.02	.04	.01												.12
Villa Ridge 3 NW		.01	.01																							.02
Warrensburg 4 E			.01	.01																						.02
–26th–																										
Bedford 1 S																									.01	.01
Potosi 2 S		*	*	*	*	*	*	*	*	.32																.36
–27th–																										
Alton 6 ENE																							*	*	*	*
Bedford 1 S			.01																							.01
Cassville Ranger Station																							.03			.03
Forsyth																							.03	.01		.04
Hornersville		-	-	-	-	-	-	-	-																	-
Houston 1 W												.02	.08													.10
Lampe 4 NNE																							.07	.01		.08
Lebanon										.01	.01	.01	.01													.04
Saint James 3 NW														.05	.02											.07
Salem													.05	.01												.06
Skidmore												.01	.02	.01												.04
West Plains																									.01	.01
–28th–																										
Advance AP		.01	.01	.01		.01	.01		.04	.07	.05	.02	.04			.02	.08	.32	.24	.15	.17	.08	.10	.04	.02	1.49
Alton 6 ENE		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1.26			1.26
Amsterdam				.01	.02			.01	.02	.03	.01	.01	.01			.01		.04								.17
Appleton City					.01	.01		.01	.01	.04	.05	.05	.07	.02	.01											.28
Ashton 1 W									.05	.03	.02		.01	.03	.07	.01	.08	.02	.04							.36
Bedford 1 S						.02	.04	.06	.01		.01	.01	.02		.01	.01										.19
Belleview									.04	.04	.02	.09	.01			.10	.07	.04	.04	.06	.08	.01				.60
Bolivar								.02	.04	.04	.06			.01	.01						.03					.21
Cap Au Gris Lock & Dam 25									.02	.10	.06	.14	.05	.05	.05	.05	.02	.03								.57
Cassville Ranger Station								.04	.08	.03	.16	.04	.04	.05		.03	.02									.49
Chillicothe AP CAA	6		*	*	*	*	*	.02	*	*	*	*	*	.20	*	*	*	*	*	.01	*	*	*	*		
Clarksville Lock & Dam 24	//						.01		.02	.05	.06	.03	.13	.02	.09	.09	.01									.51

See reference notes following Station Index.

Table 4-Continued

HOURLY PRECIPITATION

MISSOURI
DECEMBER 1948

Station		A. M. Hour ending												P. M. Hour ending												Total
		1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	
Clearwater Dam Site			.01				.01			.04	.06	.05			.03	.08	.23	.22	.10	.08	.14	.07	.04		.01	1.17
Clinton					.01	.01	.01		.01	.04	.03	.04	.05	.01	.02	.01										.24
Columbia WB Airport	6		*	*	*	*	*	.02	*	*	*	*	*	.32	*	*	*	*	*	.10	*	*	*	*	*	
Columbia WB City				.01	.01	.01	.01	.07	.10	.01	.01	.07	.05	.04	.02	.01							.02			.44
Columbia Univ. of Mo. 9 NW			.01		.01		.01	.04	.07	.01		.06	.05	.04	.03			.01								.34
Dora							.03	.04		.02		.02		.19	.07	.03	.07	.10	.04	.02						.63
Downing									.04	.06	.01		.01	.18	.08	.01	.08	.02					.01			.50
Ellington									.01	.12	.07	.02		.05	.01	.14	.14	.14	.11	.08	.12					1.01
Eminence									.03	.10	.03	.01	.01	.02	.05	.13	.09	.08	.10	.04	.01		.01		.01	.72
Farmington									.01	.09	.06	.07	.05		.01	.03	.10	.04	.04	.03	.04	.05				.62
Forsyth								.04	.01	.01		.01	.09	.03	.01	.01										.21
Fulton 4 SW							.05	.07	.11	.01	.08	.08	.04	.07	.01	.01	.02	.03	.02	.01						.61
Grant City		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Hamden					*	*	*	*	*	*	*	*	*	.30								.02				.32
Harris								.05	.10			.01	.02	.06	.04	.03										.31
High Point 2 NE							.04	.07	.03		.01	.06	.03	.03	.01			.01					.01			.30
Hornersville		.05	.06	.04	.02														.03	.23	.37	.27	.16	.04	.08	1.35
Houston 1 W								.01	.07	.07	.08	.01	.02	.12	.03	.04		.05	.01					.03		.54
Jeff City Radio KWOS							.05	.06	.04		.01	.07	.02	.01	.03								.01			.30
Jewett								.01	.08	.03	.05	.08	.05		.02	.07	.29	.16	.09	.09	.12	.10	.02			1.26
Joplin AP CAA	6								*	*	*	*	*	.32	*	*	*	*	*	.06						
Kansas City WB Airport					.01	.01	.02						.02						.01							.07
Kansas City 75th & Holmes		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Kansas City Univ. of K. C.						.03	.05					.01	.08	.01												.18
Kirksville AP CAA		.02	.01						.03	.02			.02	.05	.01	.04		.04	.01			.01	.01			.27
Lakeside							.03	.04	.01	.04	.05	.04	.02	.04			.01									.28
Lampe 4 NNE									.05	.03			.12	.02	.03		.02									.27
Lehanon							.01	.02		.02	.04	.01	.04	.01									.03			.18
Lecoma 3 N								.05	.01		.05	.10	.03	.04	.04											.32
Linneus 2 S							.02	.08	.02			.04	.06	.02	.01	.01	.01									.27
Livonia								.02	.12	.01	.01		.03	.09	.03	.03	.02	.02								.38
Lockwood							.01	.02	.02	.08	.07	.03	.02	.05		.01	.03				.01					.35
Lucerne								.03	.10					.01	.13	.07	.01	.01		.01	.01					.38
Macon									.10	.03			.06	.06		.04	.02	.02								.33
Marshall AP CAA							.02	.06		.04	.05	.05	.01	.03							.02					.28
Maryville 6 NNW			.01		.01		.07											.15		.01					.01	.26
McCredie 2 W								.06	.14	.02	.01	.09	.07	.07	.04	.02					.01	.01		.04		.58
McCredie Exp. Sta.									.07	.06		.07	.04	.04	.03	.01	.01							.03		.36
Middletown 2 SW							.01	.01	.01	.12	.05	.01	.08	.04	.04	.04	.02									.43
Moberly AP 4 NE								.09	.11	.01	.01	.12	.02	.05								.02				.43
Mora						.01	.03			.01	.05	.02	.03	.03	.01							.02				.21
Mountain Grove 2 N								*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.44			.44
Nevada										.09	.06	.05	.07	.01	.01	.01				.02						.32
New Florence AP 1 SE					*	*	*	*	*	*	.22	.01	.07	.04	.03	.03	.01		.01							.42
Osceola 3 NE			.01	.01	.01	.02		.02		.03	.10	.03	.05	.02				.01				.01				.32
Owensville								.01		.04	.01	.04	.05	.03	.02		.01									.21
Pattonsburg						*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Perry 1 E									.04	.15	.04	.02	.08	.07	.08	.05	.01									.54
Polo		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.35	.35
Potosi 2 S									.10	.05		.06	.05		.03	.03	.02	.02	.03	.05	.06				.01	.51
Richwoods									.03	.09			.07	.01	.03	.02	.02	.03	.04	.04	.02	.01			.01	.42
Ridgeway 1 SE						.03	.10	.01			.01		.02	.01												.18
Rogersville							.02	.01	.02	.08	.02	.14	.04	.04	.02	.01										.40
Rolla School of Mines									.08	.02		.08	.10	.05	.10	.03	.02									.48
Rolla 5 SE								*	*	*	*	*	*	*	*	.42										.42
Rolla 3 W								.04	.04	.02	.01	.07	.05	.07	.02	.01										.33
Rolla 4 SE					.01	.01		.03	.02	.02	.01	.10	.06	.05	.04											.35
Rolla 7 S								.03	.01	.02	.03	.11	.04	.05	.03	.01	.01									.34
Saint James 3 NW									.01	.10	.01	.08	.06	.06	.03											.35
Saint Joseph WB Airport							.02																		.01	.03
Saint Louis WB Airport										.02	.07	.07	.03	.05	.05	.02	.03	.01	.01	.05						.41
Saint Louis WB City										.01	.01	.08	.07	.03	.01	.05	.04	.02	.05	.09	.01	.01	.01			.49
Saint Louis Wash. Univ.										.02	.05	.08	.07	.05	.03	.03	.08	.01	.05	.06	.02		.01		.01	.57
Salem		.01	.01						.06	.03	.03	.08		.10	.05	.05			.04	.02						.48
Seneca								.05	.11	.08	.06	.04	.08	.04												.47
Skidmore							.09											.11								.20
Speed 2 W							.03	.10	.02	.01	.01	.05	.03	.03	.01				.01						.01	.31
Spring City					.01		.02	.04	.06	.04	.02	.06	.02	.01												.28
Springfield WB Airport 4 NW							.02	.01	.01	.02	.03	.05	.02	.01	.01		.01	.01								.20
Stanberry						.01	.08	.01	.03	.01		.01														.15
Steelville 2 NNE									.04	.01	.01	.07	.02	.03	.02	.01										.21
Steffenville									.02	.05	.02	.01	.12	.06	.08	.01	.01	.02	.01							.41
Sullivan 3 SE										.09			.07	.07	.01	.02	*	*	*	*	*	*	*	*	*	*
Tarkio AP CAA						.02	.06																.05	.06	.06	.25
Trenton							.01	.05	.05	.02	.02			.01	.05					.09		.01				.31
Vichy 2 SE									.09	.02		.04	.05	.07	.04	.01	.01									.33
Vichy AP CAA 2 NW	6		*	*	*	*	*	.02	*	*	*	*	*	.27	*	*	*	*	*	.07						
Vienna 3 NW							.01	.11	.03		.04	.05	.04	.02												.30
Villa Ridge 3 NW										.11	.03		.07	.09		.05	.01	.01	.03							.40
Wappapello Dam						.02		.01		.03	.01	.03			.01	.01	.08	.27	.18	.15	.13	.10	.10	.07	.01	1.21
Warrensburg 4 E					.01	.02	.01	.01		.02	.06	.01	.02	.01	.01	.01					.04					.23
Washington 3 S									.02	.09	.03	.01	.03	.07	.03	.04	.02	.01	.02							.37
Wasola							.02	.01			.01	.01	.08	.02		.04	.02		.01	.01		.01				.24
West Plains		.01							.05	.09			.01		.19	.11	.08	.06	.10	.06		.01				.77
Williamsburg									.05	.10		.06	.05	.04	.05	.02	.01									.38
Willow Springs Forest Service		.01		.01					.07	.02	.03		.04	.04	.13	.08	.05	.14	.05	.05						.72
-29th-																										
Ashton 1 W									.03				.01			.01										.05
Bedford 1 8			.01	.02	.03																					.06
Bolivar														.01	.01											.02
Chillicothe AP CAA	6	.01	*	*	*	*	*	.12																		
Clinton																					.01					.01
Columbia WB Airport	6	.16																								
Columbia Univ. of Mo. 9 NW			.01	.01																						.02
Downing		.01							.01	.02	.02															.06
Grant City		*	*	*	*	*	*	*	*	*	.14															.14
Hamden				.01		.01	.01																			.03
Harris		.01	.02	.01	.01	.08	.01				.05															.19
High Point 2 NE			.01	.01																						.02
Jewett		.01	.01																							.02
Kansas City WB Airport						.01																				.01
Kansas City 75th & Holmes		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.25	.25
Kansas City Univ. of K. C.			.01																							.01
Kirksville AP CAA		.01																								.01
Lehanon		.01	.01																							.02
Linneus 2 S				.06	.02																					.08
Livonia		.01			.02	.03	.03	.01	.01																	.11
Lucerne			.02	.03																						.05
Maryville 6 NNW		.02	.01	.03	.01																					.07
Moberly AP 4 NE		.02	.01																							.03
Pattonsburg		*	*	*	*	*	*	*	*	.20																.20
Potosi 2 S		.04																								.04
Richwoods		.01																								.01
Ridgeway 1 SE		.05	.05	.05			.02	.02																		.19

See reference notes following Station Index.

Table 4-Continued

HOURLY PRECIPITATION

Station	A. M. Hour ending 1	2	3	4	5	6	7	8	9	10	11	12	P. M. Hour ending 1	2	3	4	5	6	7	8	9	10	11	12	Total
Saint Joseph WB Airport		.01	.01	.01	.01																				.04
Skidmore	.02	.03	.02	.01																					.08
Steffenville								.01	.01	.01															.03
Sullivan 3 SE	*	*	*	*	*	*	*	.15																	.41
Tarkio AP CAA	.07	.05	.02	.02	.01																				.17
Trenton		.01	.04	.05	.05				.02	.01															.18
Vichy AP CAA 2 NW 6														*	*	*	*	*	.03						
Warrensburg 4 E		.01	.01																						.02

PRESSURE, WIND, HUMIDITY, SUNSHINE, DEGREE DAYS

Station	Sea level pressure extremes—inches: Highest	Date	Lowest	Date	Wind speed—m. p. h.: Average	Maximum	Direction of maximum	Date of maximum	Relative humidity averages—percent: 1:30 a. E. S. T.	7:30 a. E. S. T.	1:30 p. E. S. T.	7:30 p. E. S. T.	Sunshine: Percent of possible	Degree days 65° base
Columbia WB City	30.76a	25	29.24a	5	7.8	34	S	5	78a	85a	66a	69a	48	880
Kansas City WB Airport	30.78	25	29.18	5	10.2	43	SW	5	70	75	60	61	46	907
St. Joseph WB Airport	30.78	25	29.09	5	8.0	39	W	5	79	84	63	70	51	1014
St. Louis WB City	30.76a	26	29.35a	5	12.8	45	S	5	78a	79a	63a	72a	50	815
Springfield WB Airport	30.71	25	29.35	5	13.7	45	SW	5	75	80	61	66	45	836

a - airport data

TABLE 6
DAILY EVAPORATION (INCHES) AND WIND MOVEMENT (MILES)

STATION		DAY OF MONTH 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	TOTAL	DEPARTURE FROM NORMAL
Lakeside	EVAP	.048	.079	.017	.032	.174	.136	3.005	.040	.040		.070	.050	.041	.052		.098		.040	.041	.052	.044	.075	.071									4.205B	
	WIND	30	55	17	51	154	225	4	46	23	79	111	69	11	18	29	111	30	52	89	87	75	45	52	95	87	28	54	63	179	118	36	2123	

DAILY RIVER STAGES

Table 7

River and Station	Flood stage	Day of month 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Highest	Date	Lowest	Date
Bourbeuse																																				
Union 2 SE	12	-0.2	-0.2	-0.2	-0.1	-0.1	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.1	.2	.2	.2	.1	.1	.1	.1	.2	.2	.2	.3	.2	.2	.2	.6	.4	.4	.6	29	-0.2	1+
Meramec																																				
Sullivan 3 SE	11	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.4	1.4	1.4	1.4	1.4	1.5	1.6	1.8	2.0	2.0	1.9	1.8	1.7	1.7	1.7	1.7	1.6	1.6	1.6	1.7	2.0	2.4	2.4	31	1.4	10+
Valley Park	14	-1.5	-1.5	-1.5	-1.5	-1.5	-1.5	-1.5	-1.5	-1.5	-1.5	-1.5	-1.5	-1.6	-1.6	-1.6	-1.6	-1.6	-1.2	-1.0	-1.0	-1.0	-1.1	-1.1	-1.1	-1.1	-1.2	-1.4	-1.3	-1.0	-0.7	-0.3	-0.3	31	-1.6	13+
Mississippi																																				
Hannibal	13	10.1	10.1	10.2	10.2	10.2	10.1	10.1	9.8	9.7	9.5	9.4	9.6	9.6	9.6	9.7	9.9	9.9	9.9	9.9	9.7	9.7	10.0	9.9	10.1	10.1	10.1	8.3	7.6	7.9	7.9	7.9	10.2	3+	7.6	28
St. Louis WB City	30	-0.4	-0.2	.1	.9	-0.1	1.0	-0.3	-0.7	-0.7	.0	-0.4	-0.8	-0.8	-0.9	-0.7	-0.6	-0.6	-1.0	-1.4	-0.4	-1.5	-2.1	-2.5	-2.3	-2.0	-1.6	-2.2	-2.0	-1.5	-1.9	-1.0	1.0	6	-2.5	23
Cape Girardeau	32	8.5	8.2	8.5	8.7	8.9	9.1	9.2	9.0	8.3	8.1	8.3	8.6	8.7	8.1	8.1	8.4	8.2	8.3	8.6	8.2	8.5	8.6	7.8	7.1	6.9	7.2	7.6	7.5	8.1	8.4	8.3	9.2	7	6.9	25
Grand																																				
Gallatin	20	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.2	2.2	2.2	2.3	2.3	2.3	2.3	2.5	2.3	2.3	2.3	2.3		2.2	2.2	2.2	2.2	2.3	2.3	2.4	2.4	2.5	18	2.2	11+
Chillicothe	18	3.7	3.7	3.7	3.7	3.7	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.8	3.8	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.8	3.8	3.8	3.8	3.8	16+	3.6	6+
Brunswick	12	1.4	2.0	1.6	1.4	1.6	1.6	1.4	1.4	1.4	1.4	1.3	1.3	1.3	1.2	1.2	1.1	1.1	.8	.7	.6	.5	.4	.2	.2	.2	.1	.0	.0	.0	.0	.0	2.0	2	.0	27+
Osage																																				
Osceola 3 NE	22	1.1	1.1	1.1	1.1	1.2	1.0	1.1	1.0	1.0	2.1	1.0	1.0	1.0	1.0	1.0	1.0	1.0	2.9	1.0	1.0	1.0	1.0	1.0	1.6	2.5	1.0	2.6	2.3	1.9	1.7	1.1	2.9	18	1.0	6+
Warsaw No 2	31	22.5	22.3	22.3	22.3	22.2	21.3	21.3	21.3	21.7	21.4	21.2	21.2	21.2	21.0	20.7	20.5	20.5	20.5	20.4	20.4	20.3	20.3	20.3	20.2	20.1	20.0	19.8	19.8	19.4	19.4	19.7	22.5	1	19.4	29+
Lakeside		54.3	54.2	54.1	54.1	54.1	54.1	54.0	53.8	53.5	53.2	53.0	53.0	53.0	52.8	52.5	52.4	52.3	52.3	52.3	52.3	52.1	52.1	51.9	51.8	51.8	51.9	51.9	51.8	51.6	51.4	51.4	54.3	1	51.4	30+
St. Thomas	23	4.6	4.9	3.8	3.7	2.0	1.8	5.1	5.8	6.4	6.5	6.5	2.4	1.8	5.5	6.6	5.0	5.4	4.6	2.3	2.0	5.6	4.7	5.3	5.5	2.3	1.9	1.8	4.1	6.6	6.3	2.9	6.6	15+	1.8	6+
Gasconade																																				
Jerome	15	1.9	1.9	1.9	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	2.0	2.3	2.2	2.2	2.2	2.1	2.1	2.1	2.0	2.0	2.6	2.6	31	1.8	4+
Missouri																																				
St. Joseph WB Airpt	17	7.2	7.1	6.9	6.7	6.8	6.8	6.6	7.0	6.5	6.8	5.5	4.1	3.2	2.6	2.6	2.9	3.2	3.1	3.1	3.0	3.0	2.9	2.8	2.8	2.9	2.6	2.2	1.9	2.8	2.5	2.4	7.2	1	1.9	28
Kansas City WB Airpt	22	6.9	6.8	6.3	6.4	6.3	6.4	6.5	6.6	6.4	6.3	6.0	5.5	4.5	3.8	3.6	3.5	3.6	3.8	3.9	3.9	3.8	3.7	3.7	3.7	3.6	3.6	3.4	3.2	3.0	3.0	3.2	6.9	1	3.0	29+
Waverly	18	7.9	7.5	7.2	7.0	6.9	6.8	6.8	6.9	7.0	6.9	6.4	6.3	5.5	4.7	4.1	3.8	3.7	3.7	4.0	4.0	3.9	3.8	3.7	3.7	3.8	3.7	3.6	3.5	3.5	3.3	3.2	7.9	1	3.2	31
Boonville	21	5.8	6.1	5.9	5.6	5.4	5.3	5.1	5.2	5.3	5.4	5.3	4.9	4.7	4.0	3.2	2.6	2.3	2.2	2.1	2.2	2.3	2.3	2.3	2.2	2.2	2.2	2.1	2.0	1.9	1.9	2.1	6.1	2	1.9	29+
Hermann	21	6.3	6.4	6.6	6.5	6.2	5.8	5.6	5.9	6.2	6.5	6.7	6.7	5.7	5.2	.54	5.5	4.4	4.0	3.6	3.5	3.0	3.7	3.6	3.8	3.8	3.2	2.6	2.8	3.7	5.4	4.7	6.7	11	2.6	27
St. Charles	25	8.7	9.0	9.1	8.9	9.2	8.9	8.8	8.6	8.8	8.9	9.0	10.1	10.7	10.5	10.2	10.1	10.0	9.8	9.9	9.6	9.4	9.2	9.0	9.3	9.4	9.6	9.1	9.7	9.9	9.8	10.9	10.9	31	8.6	8
Current																																				
Doniphan 2 W	12	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	3.0	2.9	2.4	2.8	2.6	2.4	2.4	2.3	2.2	2.2	2.4	2.3	2.3	2.4	3.1	3.4	3.4	3.4	30+	1.9	8+
Black																																				
Leeper	11	2.5	2.5	2.5	2.1	2.0	2.0	2.0	2.0	2.0	2.0	1.6	1.7	1.7	1.9	2.0	2.0	3.4	2.5	2.6	2.6	2.6	2.6	2.3	2.2	2.2	2.1	2.1	2.1	2.7	3.6	3.6	3.6	30+	1.6	11
Poplar Bluff	16	2.5	2.9	3.1	3.1	2.8	2.6	2.5	2.4	2.4	2.4	2.3	2.1	2.1	2.1	5.9	7.8	6.3	5.2	4.5	4.0	3.8	3.7	3.6	3.3	4.5	3.6	3.3	3.2	8.0	8.0	7.0	8.0	29+	2.1	12+
White																																				
Forsyth		.8	.8	.8	.8	.8	.9	.8	.8	.7	.7	.7	.8	.8	.8	3.8	4.6	6.1	6.7	6.4	5.4	1.3	1.2	1.2	1.3	3.4	1.2	2.2	1.2	1.2	1.4	1.2	6.7	18	0.7	9+
St. Francis																																				
Fisk	20																										22.0	11.6	11.2	11.8	13.2	13.9				
Mississippi																																				
New Madrid	34	17.9	19.8	20.9	21.8	23.0	24.4	25.1	25.3	24.7	23.6	22.1	20.3	18.3	17.0	15.3	14.3	15.2	17.5	20.9	23.2	25.2	26.3	27.2	27.1	26.8	26.8	27.4	27.8	27.8	27.7	26.9	27.8	28+	14.3	16
Caruthersville	32	16.0	17.5	19.0	19.8	20.5	21.9	22.9	23.3	23.1	22.3	21.0	19.4	17.7	16.2	14.9	13.8	13.6	15.1	17.8	20.4	22.6	23.9	24.7	25.1	24.9	24.8	25.3	25.7	25.9	25.8	25.3	25.9	29	13.6	17

The following reference notes apply only to Table 7 - Daily River Stages:

Readings are made at approximately 7 a.m. (Local time). They are provisional and subject to correction. Final and corrected stages will be published in the annual publication "Daily River Stages - Principal Rivers of the United States".

a	Obstructed by rough ice.	f	Shore ice.
b	Frozen but open at gage.	g	Floating ice.
c	Upper surface of smooth ice.	h	Pool stage.
d	Ice gorge above gage.	i	Dry at gage.
e	Ice gorge below gage.	j	Interpolated.

See reference notes following Station Index.

DAILY TEMPERATURES

Table 5

Station		Day of month																															Average
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Advance AP	MAX	55	52	53	57	63	53	47	39	46	38	49	72	65	67	70	64	44	41	40	50	57	42	40	35	32	31	39	51	51	39	44	49.2
	MIN	28	28	37	41	35	29	23	20	30	19	23	45	40	62	64	34	31	36	28	29	36	33	33	29	15	13	21	33	32	25	19	31.3
Albany	MAX	50	57	62	67	57	44	39	33	28	29	50	54	62	46	44	40	40	34	34	53	47	45	36	32	22	27	39	41	42	37	30	42.6
	MIN	20	30	23	38	27	24	19	13	9	-7	27	25	27	33	31	17	14	31	23	25	31	21	30	20	7	-21	11	33	21	-1	20	20.1
Amity	MAX	52	53	59	65	58	49	38	32	33	32	49	59	63	50	45	40	38	34	36	54	46	40	38	31	24	25	35	41	41	34	30	42.7
	MIN	24	29	28	35	28	23	20	17	15	-2	27	27	35	33	31	12	17	30	24	24	32	24	29	22	6	-12	16	32	22	3	20	21.6
Anderson 2 SW	MAX	56	62	48	64	64	47	59	46	47	45	52	61	73	80	69	78	52	55	49	42	55	55	52	42	35	33	33	49	53	33	42	52.6
	MIN	16	17	31	34	45	17	18	15	22	12	13	33	29	30	62	31	30	32	32	22	21	28	32	32	25	11	21	32	28	9	9	25.5
Appleton City	MAX	55	55	60	68	60	51	43	54	38	47	58	60	75	71	65	46	39	51	42	47	53	45	39	32	30	30	35	53	49	41	40	49.4
	MIN	26	31	31	37	34	21	25	29	27	10	32	29	34	47	35	22	32	34	29	22	33	23	30	29	19	6	27	32	26	12	21	27.3
Arcadia	MAX	60	53	53	60	60	60	53	53	43	40	39	56	70	70	75	70	50	45	49	35	50	57	43	38	30	32	30	40	52	33	40	49.6
	MIN	22	22	35	38	39	28	26	18	22	12	16	29	38	50	59	35	27	28	31	25	27	28	28	25	23	5	8	22	32	18	17	26.9
Bethany	MAX	43	52	58	64	58	41	37	37	29	26	47	50	57	49	43	38	35	34	33	51	46	40	38	30	21	24	38	38	41	31	28	40.5
	MIN	18	27	21	36	27	24	20	15	14	-3	25	26	26	34	33	18	14	30	23	24	33	20	29	20	9	-26	9	32	23	-1	21	20.0
Birch Tree	MAX	52	52	58	62	54	54	51	41	50	40	44	71	69	66	68	66	46	41	40	51	59	50	38	37	30	26	38	42	49	37	40	49.1
	MIN	30	25	44	32	40	22	27	16	28	13	25	42	36	56	62	34	26	35	33	23	33	30	33	30	23	6	22	30	29	18	12	29.5
Bolivar	MAX	57	48	60	62	61	54	51	43	46	45	57	65	75	66	74	50	47	42	41	51	53	45	42	35	32	28	34	49	49	39	38	49.6
	MIN	29	36	38	38	36	27	27	26	32	12	33	39	45	56	50	27	26	36	29	30	35	29	31	30	20	10	25	31	26	14	23	30.5
Boonville Waterworks	MAX	45	50	52	53	65	47	45	37	38	37	37	55	57	73	63	66	40	37	40	34	48	48	40	31	25	20	27	34	42	30	34	43.5
	MIN	23	27	29	30	39	26	22	22	24	5	7	35	35	39	49	22	20	21	27	26	27	23	23	22	16	-10	-7	27	28	10	10	22.5
Brookfield	MAX	50	52	56	57	65	59	44	43	35	35	35	53	57	66	63	56	45	40	37	40	49	48	44	32	29	21	30	37	42	44	36	45.2
	MIN	23	27	27	29	25	26	23	18	21	1	3	30	31	32	42	22	20	21	26	26	26	23	27	23	14	-19	-17	28	29	4	7	19.9
Brunswick	MAX	46	52	54	56	68	64	41	40	36	31	37	54	64	73	63	63	43	39	34	36	50	49	42	35	27	23	27	36	43	38	34	45.1
	MIN	24	25	30	29	38	25	25	22	23	5	5	34	29	33	44	25	21	21	30	28	26	25	26	25	11	-13	3	26	32	11	11	22.5
Butler	MAX	58	56	59	66	61	50	48	42	42	43	54	58	72	67	68	46	44	42	41	49	53	47	42	32	30	30	36	53	52	40	40	49.1
	MIN	28	34	26	37	32	21	24	23	25	10	33	27	33	44	36	20	19	31	26	22	27	24	30	27	16	6	28	31	24	10	19	25.6
Camdenton	MAX	60	59	61	70	67	58	54	44	44	45	54	65	76	73	77	63	60	42	44	53	55	54							38	41	43	56.0
	MIN	31	36	38	40	38	28	28	25	31	11	32	42	48	55	60	26	26	32	31	30	38	29							26	14	22	32.7
Campbell	MAX	55	56	57	59	64	56	51	40	47	41	50	71	72	72	67	65	47	42	42	53	56	52	41	40	34	31	40	48	52	40	42	51.1
	MIN	32	37	46	39	51	28	34	25	33	22	26	48	47	60	65	41	33	37	37	29	37	34	32	31	27	16	26	32	34	26	22	35.1
Canton Lock Dam 20	MAX	45	48	54	59	58	42	38	32	30	31	49	48	60	53	58	46	40	35	34	42	45	40	31	28	26	21	37	36	39	35	29	40.9
	MIN	19	26	30	33	33	25	23	16	22	2	25	32	28	38	42	23	17	28	29	26	33	21	28	22	12	-6	13	33	32	10	20	23.7
Cape Girardeau Mo State	MAX	55	54	60	63	61	51	45	39	45	42	54	69	70	65	69	66	66	41	39	49	57	50	39	37	30	30	39	42	50	36	43	50.2
	MIN	32	39	43	42	43	32	37	24	30	22	28	39	50	56	61	38	30	32	31	30	38	31	32	30	20	10	21	30	34	25	21	33.3
Caplinger Mills	MAX	58	50	62	68	63	55	48	44	42	46	58	65	77	65	74	47	47	42	42	52	54	47	44	35	33	30	36	53	52	42	41	50.7
	MIN	21	31	34	46	38	26	26	20	27	11	34	33	37	42	43	21	24	36	30	28	29	27	34	29	20	9	26	32	27	11	17	28.0
Carrollton	MAX	52	53	54	66	58	42	49	37	34	34	53	54	65	57	62	41	38	36	36	50	49	40	37	32	26	26	36	42	42	32	32	44.0
	MIN	20	30	26	35	34	24	24	19	16	5	31	30	31	40	36	22	20	32	29	27	30	23	30	25	5	-15	22	32	26	9	20	23.8
Carthage	MAX	61	51	63	67	65	58	53	53	44	51	61	70	80	67	75	48	50	47	45	51	53	47	44	40	34	32	37	53	53	40	41	52.7
	MIN	25	28	33	43	38	28	27	23	24	15	37	34	34	55	42	29	28	38	28	32	33	28	34	32	24	17	27	35	22	14	20	29.9
Caruthersville	MAX	57	59	56	63	62	57	57	46	51	46	52	69	74	67	68	65	50	47	46	54	61	56	45	42	38	33	43	53	55	40	45	53.5
	MIN	33	39	48	40	53	32	38	26	30	26	28	50	52	60	64	43	36	39	38	31	40	38	36	33	30	20	26	33	34	28	22	37.0
Chillicothe AP CAA	MAX	50	55	57	65	56	41	39	33	29	29	49	55	63	53	52	43	38	33	35	50	47	40	34	27	21	23	35	39	34	32	30	41.5
	MIN	21	28	27	36	28	23	21	18	2	-1	28	30	31	36	28	21	18	31	24	23	26	23	26	21	-10	-17	18	32	13	1	11	19.9
Clearwater Dam Site	MAX	55	54	59	59	61	53	51	41	45	45	48	72	69	67	70	69	50	45	40	52	57	54	42	39	32	29	36	42	50	38	40	50.5
	MIN	27	26	43	38	48	29	25	19	30	18	25	46	39	52	63	37	28	35	35	23	34	33	34	29	25	7	22	29	31	22	14	31.2
Clinton	MAX	59	58	60	68	60	49	42	43	36	45	58	61	77	65	66	46	44	37	39	50	53	43	35	32	26	31	36	50	51	42	39	48.4
	MIN	26	32	34	41	34	26	25	26	23	10	34	35	37	45	32	26	22	31	31	28	31	26	30	25	18	5	27	32	20	13	23	27.4
Columbia WB Airport	MAX	54	56	52	64	57	45	39	40	32	34	54	59	75	62	70	44	42	34	34	52	51	43	33	27	22	28	36	46	35	40	31	44.9
	MIN	27	34	32	39	32	27	26	26	11	7	32	39	45	45	34	26	20	30	29	27	29	23	26	22	-2	-10	21	33	20	11	18	25.1
Columbia WB City	MAX	55	56	52	65	61	47	40	42	33	35	54	60	75	62	73	45	43	34	34	52	53	44	35	29	24	31	37	47	36	38	32	45.9
	MIN	29	38	33	39	34	28	27	28	13	9	33	42	45	49	35	27	24	31	30	29	32	27	27	24	5	-7	22	35	22	15	30	27.6
Columbia Univ of Mo 9 NW	MAX	54	54	53	64	60	45	42	40	37	34	55	58	74	65	70	45	41	37	33	51	51	43	38	30	27	27	37	44	47	40	31	46.0
	MIN	23	29	29	34	32	25	23	20	24	6	28	35	35	39	42	23	29	28	27	24	32	21	26	23	9	-11	16	31	27	11	20	24.2
Conception	MAX	50	52	60	65	60	41	37	31	30	28	45	49	57	53	43	37	35	34	35	53	46	43	38	31	24	25	36	37	36	35	30	41.2
	MIN	20	29	29	38	25	23	17	15	15	-4	26	26	34	31	30	16	17	29	21	25	22	25	29	21	8	-8	14	31	21	3	19	20.9
Crystal City	MAX	50	52	59	62	64	56	50	44	46	39	50	70	77	67	77	69	45	37	35	52	58	49	41	32	30	33	41	41	47	38	39	50.0
	MIN	20	28	37	30	41	28	33	19	25	15	27	48	31	42	62	33	27	29	32	26	35	27	28	25	17	-3	10	27	32	20	17	28.0
Doniphan	MAX	57	53	63	59	64	59	50	41	51	41	54	75	70	69	70	66	48	41	41	55	62	46	44	36	35	28	42	44	51	41	46	51.7
	MIN	31	23	43	36	47	23	28	16	27	14	21	52	39	51	55	33	27	36	30	23	31	33	35	31	25	8	24	29	32	22	12	30.2
Edgerton	MAX	43	55	56	61	67	35	44	43	36	32	39	45	57	65	53	39	44	39	34	39	56	49	40	33	27	23	30	37	49	31	31	43.0
	MIN	19	25	23	24	33	21	19	19	23	6	10	21	30	29	38	18	16	18	24	22	24	19	22	25	13	-20	-13	29	23	4	4	18.3
Eldon	MAX	57	51	59	67	60	53	45	42	40	39	54	62	77	63	75	49	42	35	37	51	53	43	36	31	28	29	37	47	49	39	38	48.0
	MIN	26	35	36	37	35	27	26	25	28	9	31	41	42	54	48	26	23	31	30	29	36	24	29	26	27	6	25	33	28	13	22	29.3
Elsberry	MAX	51	48	58	60	63	61	51	42	39	34	33	53	60	69	64	77	58	41	35	35	47	55	41	35	29	27	31	39	42	36	37	46.8
	MIN	14	25	28	29	41	28	25	14	19	7	11	33	29	36	47	30	18	22	30	28	28	25	23	22	20	-17	-15	25	31	15	13	22.1
Farmington	MAX	54	53	55	58	61	53	49	39	43	40	45	68	67	65	71	68	47	40	37	51	56	50	39	32	28	28	38	40	48	35	42	48.4
	MIN	26	36	41	41	43	28	33	19	21	15	25	43	44	55	62	33	25	32	31	27	38	27	29	26	21	6	18	27	29	19	13	30.1
Fayette	MAX	54	55	60	67	58	45	42	39	35	34	55	57	72	61	67	42	41	36	36	52	51	41	35	30	25	28	35	43	44	37	32	45.5
	MIN	24	31	28	35	32	24	24	21	26	7	30	36	34	42	38	23	21	30	28	26	31	24	29	25	17	-13	17	33	28	10	21	25.2
Fulton 4 SW	MAX	51	55	55	54	64	55	49	40	41	36	35	54	60	75	63	74	45	42	33	33	50	52	43	33	28	23	30	37	46	33	37	46.0
	MIN	23	24	30	30	38	27	25	22	23	7	9	35	40	40	49	28	22	22	29	29	26	25	26	25	18	-6	-1	23	30	15	15	24.1
Grant City	MAX	46	52	59	64	53	41	36	29	29	25	45	50	57	43	40	35	35	33	36	51	41	42	34	28	18	23	36	38	35	35	28	39.3
	MIN	20	25	25	34	24	23	17	13	1	-4	24	25	31	30	29	15	17	28	28	23	29	22	28	18	3	-8	12	30	20	3	18	19.5
Greenville 1 SW	MAX	58	51	62	60	63	56	49	42	49	42	50	71	65	68	68	67	49	42	41	54	61	55	41	39	34	31	41	42	50	42	45	51.2
	MIN	23	24	40	41	51	24	27	16	28	16	28	49	39	49	63	38	26	33	36	24	32	32	35	30	26	8	20	29	33	23	12	30.8
Hannibal Waterworks	MAX	45	55	58	62	59	45	37	34	28	31	50	58	68	59	72	43	36	33	34	45	48	39	33	27	24	25	36	43	43	34	28	43.0
	MIN	26	33	35	37	31	29	25	21	14	5	29	40	43	41	36	25	21	30	29	28	29	26	25	23	4	-4	16	32	21	13	22	25.3

See reference notes following Station Index

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Harrisonville	MAX	51	52	57	58	66	49	50	43	41	36	43	56	58	71	71	61	47	41	36	40	52	54	44	34	34	28	30	37	50	29	41	47.1
	MIN	28	30	29	28	38	25	23	24	28	9	11	31	31	39	50	20	20	22	28	24	25	25	25	25	17	3	7	29	25	11	11	23.9
Jackson	MAX	57	52	60	57	63	53	48	39	45	39	48	71	62	65	69	67	45	40	40	49	57	50	39	37	32	32	40	40	50	36	44	49.2
	MIN	25	37	37	43	50	32	34	20	25	21	27	48	48	46	64	39	31	30	35	29	36	30	31	30	21	10	19	30	33	25	18	32.4
Jeff City Radio KWOS	MAX	55	55	57	63	60	52	44	41	39	35	53	64	77	63	75	46	42	36	34	52	53	42	37	31	27	27	39	48	47	39	32	47.3
	MIN	21	26	29	33	34	30	27	20	27	10	31	42	32	42	46	28	21	31	31	28	34	25	30	26	13	- 8	23	29	30	15	21	26.7
Joplin AP CAA	MAX	57	49	60	64	62	56	42	45	42	48	60	66	76	67	72	47	49	45	40	52	53	47	40	39	34	32	41	52	32	40	39	49.9
	MIN	30	33	33	47	32	28	26	26	20	14	38	38	43	63	34	25	27	38	28	30	31	27	31	30	19	16	28	30	23	12	22	29.7
Kansas City WB Airport	MAX	57	53	61	67	59	44	42	37	32	41	54	59	73	54	48	43	39	36	39	53	48	39	35	29	23	30	35	53	30	41	36	44.8
	MIN	29	36	30	45	32	31	26	30	13	11	35	33	39	40	29	23	25	32	28	30	32	29	29	23	3	- 1	30	30	19	12	25	26.7
Kansas City Univ of K.C.	MAX	57	54	60	67	64	45	43	39	37	41	55	60	71	65	63	43	41	39	39	52	50	47	38	31	27	30	36	52	51	42	40	47.7
	MIN	29	42	26	40	32	26	25	26	26	10	35	31	32	40	35	21	25	31	27	26	32	26	27	24	17	0	27	32	24	13	24	26.8
Kidder	MAX	51	47	49	65	60	36	36	31	30	30	49	45	64	54	48	33	34	34	34	52	48	39	36	30	24	20	33	40	40	29	29	40.3
	MIN	23	31	29	36	28	23	18	18	13	- 1	29	22	35	35	32	17	19	29	26	24	31	24	29	23	7	-12	15	31	23	4	21	22.0
Kirksville	MAX	42	54	56	67	56	44	37	32	27	28	49	55	66	45	54	41	37	32	32	44	45	40	34	27	21	22	35	37	39	37	29	40.8
	MIN	21	28	28	37	29	25	21	16	20	0	26	31	36	34	35	20	20	28	25	24	34	23	26	20	7	- 9	11	31	24	8	20	22.5
Kirksville AP CAA	MAX	47	55	55	62	54	41	37	32	27	30	50	56	69	46	54	40	38	32	33	44	45	41	31	24	19	20	34	39	35	35	29	40.5
	MIN	20	26	25	36	29	26	19	17	4	0	30	32	35	36	29	20	20	28	26	24	24	22	24	19	- 6	- 8	17	32	14	9	20	20.9
Koshkonong	MAX	56	53	50	57	57	57	53	39	50	44	46	73	72	67	68	66	49	43	41	55	59	54	43	41	32	27	42	42	47	41	44	50.6
	MIN	30	33	44	37	44	29	40	25	30	18	26	45	47	57	61	35	30	36	33	27	37	32	34	30	25	10	22	32	30	19	21	32.9
Lakeside	MAX	56	57	51	60	68	54	53	41	43	42	42	53	64	78	67	74	49	45	39	40	53	55	45	37	30	29	32	38	51	32	42	49.0
	MIN	21	26	30	34	44	28	29	21	26	11	14	39	29	31	44	27	24	25	32	32	31	28	29	29	22	4	7	30	31	15	18	26.2
Lamar	MAX		60	49	61	67	50	55	45	44	42	50	60	66	76	64	71	46	46	44	42	51	53	47	35	34	30	33	44	52	30	40	49.6
	MIN	20	29	31	30	38	25	23	22	26	12	18	33	34	42	62	24	24	26	26	26	30	29	29	29	19	12	17	28	25	10	10	26.1
Lathrop 3 SW	MAX	53	53	58	67	55	42	41	35	35	35	50	55	68	59	56	42	37	34	37	54	47	40	35	30	20	26	34	44	37	37	34	43.5
	MIN	25	30	27	39	28	22	20	20	6	4	30	28	35	36	32	18	19	30	26	24	28	24	28	20	4	- 6	26	25	12	19	6	22.5
Lebanon	MAX	55	50	59	61	59	53	51	45	45	42	49	66	76	68	75	58	47	40	39	52	54	48	40	34	31	29	38	46	47	45	32	49.5
	MIN	26	35	38	37	32	27	27	24	29	10	30	41	47	55	58	27	24	33	30	29	34	27	32	28	19	5	24	32	25	12	20	29.6
Lexington	MAX	46	56	54	57	67	44	44	39	38	33	38	54	57	70	63	64	42	41	35	37	52	49	42	35	28	22	30	36	47	29	39	44.8
	MIN	28	29	34	33	44	30	24	24	27	8	10	33	33	39	45	21	21	23	29	29	29	27	26	25	16	- 7	- 6	30	26	11	11	24.3
Licking 4 N	MAX	52		52	58	59		52	49	42	43	46		63	74	73	72		45		50	55		44	37		33	37		43	43	36	50.3
	MIN	20		35	37	36		25	23	28	25	19		45	38	53	39		38		26	26		25	30		18	- 2		23	26	12	28.0
Lockwood	MAX	57	50	60	65	56	55	48	47	44	46	57	66	78	73	74	49	47	44	41	50	54	45	36	34	33	30	35	52	51	42	42	50.4
	MIN	26	41	33	43	38	34	26	27	29	12	40	37	41	63	49	26	26	34	32	30	35	29	30	31	21	11	25	31	25	12	20	30.9
Louisiana Starks Nur	MAX	48	60	59	64	61	47	45	37	34	33	52	60	70	52	75	57	41	34	35	44	58	43	34	31	28	27	37	41	43	36	31	45.7
	MIN	16	26	28	30	35	28	27	16	22	8	16	41	31	39	50	28	19	28	31	30	34	24	26	23	10	-18	0	28	32	16	19	24.0
Macon	MAX	47	48	55	55	63	54	43	39	33	31	34	52	56	68	63	62	42	39	33	33	48	48	42	33	25	20	26	36	42	32	37	43.2
	MIN	20	20	28	30	38	26	22	16	17	2	3	30	34	36	40	22	18	17	26	26	25	22	25	21	12	-11	- 1	24	30	8	8	20.5
Marble Hill	MAX	56	52	58	54	63	49	49	38	39	34	48	62	63	66	69	67	41	39	40	48	56	36	34	32	24	34	42	38	51	34	33	46.7
	MIN	20	25	34	38	35	24	25	15	20	13	20	32	34	45	58	32	24	26	28	24	26	26	24	21	5	19	25	30	28	17	12	26.0
Marshall Ap CAA	MAX	55	58	56	66	60	46	40	40	31	36	54	58	73	64	65	42	41	35	38	51	51	42	35	29	23	29	37	46	34	39	32	45.4
	MIN	23	29	28	38	30	24	21	23	9	6	35	32	38	40	30	20	21	29	28	24	27	24	26	22	- 5	-14	20	33	17	7	16	22.6
Marshfield	MAX	53	50	56	60	57	53	50	41	39	44	47	64	73	66	73	61	45	41	40	51	51	47	40	35	34	28	34	47	47	37	33	48.3
	MIN	29	37	39	39	35	26	26	20	27	12	30	42	45	57	60	26	25	34	28	27	35	28	32	28	18	8	23	31	24	12	17	29.7
Maryville	MAX	47	49	59	63	53	40	35	30	29	29	43	47	55	45	40	36	32	32	35	52	44	42	35	29	21	26	39	37	37	30	29	39.4
	MIN	23	26	26	35	25	20	17	16	4	- 5	26	26	33	32	28	15	18	29	21	21	29	23	20	19	4	- 6	12	31	19	0	17	19.5
Memphis	MAX	42	46	51	60	65	48	45	37	33	29	35	50	55	65	43	55	42	38	32	34	42	45	42	30	28	19	25	35	42	33	36	41.4
	MIN	19	19	28	32	37	26	21	14	15	0	1	27	27	34	36	21	18	18	24	21	24	23	24	20	11	-10	2	20	31	5	6	19.2
Mexico	MAX	50	52	59	56	66	56	47	41	40	31	37	54	61	76	63	75	48	42	35	32	48	54	43	33	24	21	29	37	44	33	38	46.0
	MIN	23	26	33	34	39	27	24	23	23	7	8	35	39	39	45	26	20	20	30	27	27	24	24	24	16	-10	- 6	23	31	12	12	23.4
Moberly AP 4 NE	MAX	48	50	57	55	64	57	38	39	35	30	36	54	58	68	63	67	41	40	32	34	50	48	43	43	30	26	30	35	39	32	26	44.1
	MIN	22	31	30	39	35	27	22	17	25	5	13	34	33	39	50	23	20	27	25	26	32	25	28	28	20	-12	0	30	21	9	10	23.7
Monett	MAX	48	52	60	58	62	60	54	42	43	40	50	60	70	76	67	74	70	48	49	45	50	52	47	35	37	39	38	43	50	51	42	52.0
	MIN	30	28	30	28	30	31	22	22	20	16	16	40	42	46	61	32	28	28	27	28	36	29	31	20	15	14	15	25	22	14	22	27.4
Mountain Grove 2 N	MAX	54	50	55	57	58	53	52	40	46	51	46	68	72	64	72	67	47	42	40	51	56	47	41	37	31	25	34	44	44	39	36	49.0
	MIN	30	33	41	38	41	28	30	25	28	13	26	44	45	54	60	29	25	35	30	29	36	29	32	29	21	7	21	31	26	15	19	30.6
Mount Vernon 3 SW	MAX	58	50	60	64	62	54	46	42	44	46	52	69	77	66	75	50	48	45	44	50	53	46	43	39	33	29	35	51	49	40	38	50.3
	MIN	24	32	36	35	38	26	27	20	26	15	34	38	36	55	50	27	27	37	29	29	32	29	33	29	22	14	24	33	26	13	24	29.7
Neosho	MAX	61	55	64	65	65	57	53	46	44	50	60	72	79	70	74	54	52	48	46	54	54	50	47	42	35	35	41	52	52	44	42	53.6
	MIN	23	30	35	40	40	25	28	20	23	14	38	32	38	52	53	29	30	38	29	28	30	33	33	32	14	17	27	38	27	11	17	29.8
Nevada	MAX	60	50	62	67	62	54	51	42	41	49	60	64	76	67	70	50	47	41	42	50	55	49	42	33	33	32	37	53	52	42	42	50.8
	MIN	29	34	29	38	35	25	27	25	30	11	34	30	38	50	41	24	24	35	28	26	34	29	32	30	20	11	29	33	26	10	20	28.6
New Florence AP 1 SE	MAX	50	57	55	63	60	47	38	40	35	32	51	60	73	63	74	44	42	33	32	46	50	40	32	29	25	26	36	45	45	35	29	44.7
	MIN	23	29	30	38	32	28	23	19	17	8	29	40	39	43	35	28	21	27	26	26	28	24	26	22		- 6	10	31	22	15	21	24.3
Oregon	MAX	53	49	60	64	57	41	40	32	28	36	48	53	61	45	39	39	38	35	38	57	43	40	36	32	20	27	37	45	35	35	33	41.8
	MIN	26	31	33	42	27	23	19	19	4	0	32	27	27	36	24	17	20	28	29	29	29	27	29	19	0	- 3	23	32	24	3	19	22.4
Ozark Beach	MAX	58	60	46	59	62	53	53	49	44	42	47	61	76	81	65	79	55	51	47	47	57	60	51	46	34	36	30	40	53	35	45	52.3
	MIN	21	23	32	33	33	24	25	20	23	17	19	39	31	34	48	34	28	29	33	23	29	26	31	32	27	13	17	30	30	16	15	26.9
Polo	MAX	41	53	55	57	65	37	40	39	34	30	36	50	55	61	58	43	41	37	33	20	31	47	40	30	36	30	34	32	42			41.6
	MIN	25	25	31	30	36	24	21	19	20	5	7	31	31	34	40	19	19	20	21	22	26	25	26	21	19	17	21	30	18			23.6
Poplar Bluff	MAX	57	55	64	62	65	56	51	41	53	41	52	75	69	69	69	67	49	41	40	53	63	53	44	40	35	31	42	44	43	42	45	52.0
	MIN	26	27	41	39	51	28	30	20	33	21	24	49	41	54	65	40	31	36	37	29	36	34	34	31	27	12	24	31	35	24	18	33.2
Rolla School of Mines	MAX	55	54	56	55	63	62	54	40	42	42	39	52	64	76	70	74	48	42	36	37	51	54	42	36	29	28	29	38	47	30	36	47.8
	MIN	27	34	34	38	48	28	28	24	30	10	18	39	43	51	61	30	25	30	30	30	36	27	30	27	20	7	21	28	29	15	19	29.6
Saint Charles	MAX	48	55	56	60	63	54	48	43	38	33	50	61	72	63	77	66	40	36	36	49	49	44	34	32	28	25	39	41	44	36	36	47.0
	MIN	26	30	34	37	38	30	30	24	27	14	29	45	29	47	62	32	25	30	32	30	39	27	29	25	14	- 1	16	30	33	20	22	29.2
Saint Joseph WB Airport	MAX	55	53	61	66	58	44	40	33	29	37	50	56	63	46	42	42	40	35	38	57	46	40	36	28	21	29	36	46	34	38	34	43.0
	MIN	25	27	24	41	29	24	22	20	8	4	33	27	29	37	26	19	19	31	28	24	26	26	28	21	-13	-11	25	33	16	6	16	21.6

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Station		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Average
Saint Louis WB Airport	MAX	48	56	59	59	62	52	46	42	39	32	52	63	73	64	76	49	41	37	35	50	54	39	33	28	25	27	37	43	46	36	36	46.4
	MIN	27	32	36	40	35	31	28	24	27	14	29	45	44	47	40	32	27	32	30	31	35	28	27	24	8	0	15	31	29	21	22	28.7
Saint Louis WB City	MAX	49	55	57	60	63	52	47	44	39	34	49	62	72	66	75	46	41	36	35	51	53	39	36	31	25	29	39	43	47	35	33	46.5
	MIN	31	36	40	41	38	34	31	29	27	16	30	48	47	50	40	32	28	33	31	31	35	29	29	25	11	9	21	30	30	23	26	31.0
Saint Louis Univ	MAX	49	53	54	60	63	52	41	42	40	33	50	62	71	65	75	46	40	36	35	50	53	39	35	30	25	26	37	41	47	36	35	45.8
	MIN	31	36	41	41	36	34	32	28	30	16	33	49	49	48	42	33	28	33	31	31	36	29	30	25	12	8	20	30	30	22	25	31.3
Saint Louis Wash Univ	MAX	54	48	54	56	59	62	52	39	43	39	37	51	63	72	65	75	46	41	36	36	50	54	39	34	29	22	28	41	45	36	35	46.5
	MIN	29	31	35	36	43	30	31	23	28	15	16	36	41	45	55	32	27	28	31	30	32	28	28	25	21	5	5	20	33	20	21	28.4
Salem	MAX	55	55	57	52	62	58	51	42	41	44	38	52	68	72	66	73	48	45	38	35	47	55	42	37	31	28	29	37	47	30	37	47.5
	MIN	23	27	36	39	41	26	30	19	26	10	13	34	42	44	55	31	25	26	31	29	29	28	28	27	21	4	9	26	28	15	15	27.0
Salisbury	MAX	52	56	55	67	58	43	40	36	34	33	54	55	67	56	63	42	40	35	35	50	48	42	35	31	26	26	36	42	44	35	32	44.1
	MIN	23	33	28	39	32	29	24	20	25	5	29	35	35	39	37	24	20	31	28	28	34	25	29	24	8	-14	14	32	27	10	22	25.0
Saverton Lock Dam 22	MAX	46	54	58	62	65	48	42	36	37	32	51	52	64	54	74	57	40	35	35	44	48	45	33	30	27	26	38	41	46	35	30	44.7
	MIN	20	25	30	35	31	26	25	16	23	4	25	25	30	43	44	25	23	25	27	26	37	24	24	20	12	- 6	9	29	21	13	13	23.4
Sedalia	MAX	57	57	59	67	60	49	45	43	41	38	55	60	75	65	65	43	42	37	48	50	52	47	40	33	29	30	36	50	49	40	36	48.3
	MIN	29	33	34	43	28	26	25	26	27	9	34	35	40	48	41	23	22	34	30	26	33	27	30	26	18	1	27	33	26	11	23	28.0
Seligman	MAX	58	48	61	60	59	56	48	41	43	48	58	67	76	66	74	60	48	47	44	47	53	46	44	39	32	28	37	50	49	40	38	50.5
	MIN	30	35	33	44	36	28	28	22	27	16	27	37	49	60	59	29	31	39	28	34	34	31	32	28	20	14	26	34	25	12	22	31.3
Seymour 4 NNE	MAX											49	70	75	73	65	65	59	54	49	53	50	52	44	39	35	32	35	44	46	42	38	
	MIN											35	36	44	60	60	33	27	37	27	31	34	30	38	31	25	12	23	23	28	16	27	
Shelbina	MAX	50	57	56	63	59	45	40	34	31	33	52	59	68	53	67	44	39	34	35	46	48	43	37	32	24	24	35	40	42	37	31	43.8
	MIN	21	29	29	35	31	26	21	17	22	3	27	33	34	38	38	23	18	27	28	25	32	21	27	22	5	-17	10	31	28	9	19	23.0
Sikeston	MAX	55	56	56	61	62	64	54	51	42	48	38	60	73	74	68	67	47	41	42	39	50	59	45	43	34	33	32	42	52	39	38	50.5
	MIN	29	31	35	40	42	30	30	23	28	21	21	35	52	54	63	40	30	31	36	29	31	33	33	30	28	14	16	29	35	28	19	32.1
Springfield WB Apt 4 NW	MAX	54	47	58	59	60	54	41	41	43	42	54	66	77	63	73	47	48	41	37	50	52	45	38	32	28	26	34	48	32	39	37	47.3
	MIN	30	35	39	38	32	26	24	23	20	13	31	42	44	55	34	28	26	35	29	31	34	29	31	28	14	11	24	32	22	13	22	28.9
Steffenville	MAX	47	58	57	63	59	45	40	34	30	30	51	58	67	58	60	44	38	33	33	45	47	42	36	30	24	23	35	39	42	35	31	42.9
	MIN	18	30	31	36	31	25	22	17	22	3	26	26	37	38	43	23	19	26	28	27	34	22	28	21	9	-16	10	30	29	11	19	23.4
Sweet Springs	MAX	57	59	56	67	60	48	42	41	37	39	53	60	75	64	64	44	40	36	38	51	52	42	37	32	29	31	36	49	48	40	35	47.2
	MIN	23	30	29	41	32	25	23	21	28	9	31	31	31	41	37	22	21	31	29	24	30	21	31	25	15	- 4	25	33	27	10	20	25.5
Tarkio AP CAA	MAX	50	52	59	63	56	37	37	32	26	34	47	47	51	40	36	36	37	34	38	52	44	44	33	28	19	28	35	38	27	29	31	39.4
	MIN	22	22	26	36	26	21	18	16	- 6	-10	21	22	27	32	23	18	10	28	23	24	22	23	28	17	-20	-19	17	26	6	- 3	8	16.3
Trenton	MAX	50	55	58	65	50	42	40	34	30	32	49	55	62	54	50	42	44	38	36	52	48	44	40	32	27	31	34	38	35	35	31	43.0
	MIN	21	30	27	36	29	25	23	19	24	- 1	27	31	32	36	35	19	18	31	23	25	35	23	31	23	13	-11	3	33	25	7	20	23.0
Union 2 SE	MAX	51	58	54	65	63	54	47	43	41	35	52	62	76	65	75	61	41	36	35	52	53	43	37	32	30	31	38	46	48	36	33	48.2
	MIN	18	23	30	29	36	27	28	17	23	12	27	45	29	40	59	30	23	38	30	28	31	24	26	25	13	- 3	5	28	31	17	15	25.6
Unionville	MAX	39	46	53	57	63	53	42	35	32	28	32	42	50	60	43	49	40	35	31	34	42	43	39	29	25	22	22	37	39	31	34	39.6
	MIN	19	22	26	32	41	25	21	9	14	- 1	1	28	32	32	35	19	18	18	25	24	20	22	26	20	11	- 8	1	20	28	5	6	19.1
Vandalia	MAX	48	49	57	64	60	47	43	39	33	32	53	57	72	68	73	57	42	37	35	45	51	43	36	30	26	26	36	41	42	37	34	45.6
	MIN	20	21	31	37	32	25	25	18	23	6	26	37	36	40	55	25	18	28	29	24	30	23	27	23	10	-15	9	30	30	13	19	24.4
Vicby AP CAA 2 NW	MAX	53	55	55	62	59	52	44	41	40	37	52	63	76	64	74	46	43	36	33	52	52	41	36	28	25	26	37	47	42	35	30	46.3
	MIN	27	37	37	39	33	28	26	27	17	9	29	47	52	58	35	29	23	30	29	29	31	23	27	23	7	5	24	33	22	14	19	28.0
Wappspello Dam	MAX	59	55	53	57	59	62	54	48	40	47	39	61	73	87	67	68	52	46	41	40	50	58	45	41	33	32	29	38	50	36	41	49.7
	MIN	31	34	39	41	43	31	33	24	28	22	23	34	49	53	64	38	31	34	36	28	32	33	33	30	26	10	15	27	34	24	19	32.2
Warrensburg Central T C	MAX	57	56	57	66	61	48	45	43	41	40	55	57	72	66	65	44	40	38	38	49	51	44	39	32	29	29	35	49	49	40	37	47.5
	MIN	25	38	30	43	33	27	26	29	29	10	35	34	44	42	38	23	22	31	29	28	34	26	30	20	18	2	28	33	26	13	24	28.1
Warrenton	MAX	52	58	58	63	59	51	45	41	37	33	52	61	73	62	75	58	39	37	34	49	52	43	33	29	25	28	39	41	45	43	32	46.6
	MIN	20	28	30	38	35	28	26	19	22	9	28	45	37	42	58	28	21	22	30	26	34	25	26	24	16	- 9	13	28	31	15	20	26.3
Warsaw No 1	MAX	59	55	63	68	63	54	54	43	43	46	57	64	78	71	72	50	46	43	41	53	56	48	43	34	31	32	36	51	52	44	43	51.4
	MIN	21	22	33	42	36	27	27	20	30	11	36	35	28	39	50	25	20	33	31	29	28	25	33	29	20	5	26	34	28	12	16	27.5
Wasola	MAX	58	47	55	56	60	58	55	40	42	44	47	73	76	69	74	61	47	42	41	55	58	50	43	39	34	24	36	46	46	42	40	50.3
	MIN	27	29	40	30	36	25	29	24	28	14	22	45	43	57	58	31	30	27	31	27	35	30	33	29	23	8	20	32	26	14	19	29.7
Webster Groves	MAX	49	54	55	61	64	52	46	42	39	33	48	63	72	64	76	59	40	37	36	52	54	45	35	31	31	28	40	41	45	35	35	47.2
	MIN	24	28	32	34	36	28	30	20	25	13	26	42	35	36	58	31	25	28	29	27	39	27	28	25	15	- 1	9	27	32	14	19	27.1
Weingarten	MAX	53	54	55	60	61	68	55	41	43	38	45	60	70	66	72	67	44	46	36	52	58	46	35	30	27	30	39	41	49	36	36	48.8
	MIN	27	37	41	44	41	28	33	24	26	15	26	45	49	59	62	33	26	31	31	27	39	27	27	26	19	4	18	29	30	20	19	31.1
West Plains	MAX	55	49	47	57	57	56	54	39	48	41	43	53	72	65	69	61	48	41	41	43	58	47	41	32	31	27	30	38	42	40	41	47.3
	MIN	23	23	31	31	34	24	30	19	24	16	25	39	34	48	51	35	28	36	28	27	31	32	31	30	15	9	22	33	29	18	18	28.2
Willow Springs	MAX	55	50	56	56	58	58	49	41	47	40	45	71	77	65	71	66	47	40	40	52	57	47	40	38	31	26	39	45	48	38	39	49.4
	MIN	28	24	43	37	39	24	26	17	20	14	27	45	33	46	61	32	28	36	32	23	34	31	33	29	23	8	22	31	27	17	16	29.2

Delayed Data

November 1948 Kansas City WB Airport	MAX	60	59	64	71	53	58	63	58	48	53	59	57	54	64	71	61	67	70	48	38	40	38	51	50	52	58	46	41	49	45		54.9
	MIN	50	55	56	53	46	43	33	41	36	30	38	35	30	42	44	44	39	48	33	32	28	23	27	36	41	33	28	29	25	30		37.6

ACKNOWLEDGMENTS

In addition to the climatological data from some 6,000 Weather Bureau and cooperative weather stations, this bulletin series contains records from Hydroclimatic Network Stations which were formerly reproduced in the Hydrologic Bulletin Series. The Hydroclimatic Network is a nationwide net of rain gages--mostly of the recording type which produce continuous records of precipitation. It was established in 1939 at the request of the Corps of Engineers, Department of the Army, to supplement existing precipitation stations in order to provide records of rain fall intensity which were essential to the planning of flood control and related works by the Corps of Engineers. This Network, now numbering about 2,000 recording, and 1,000 non-recording rain gages, has been maintained by the Weather Bureau through working funds transferred annually to the Weather Bureau by the Corps of Engineers. These transfers averaged about $250,000 per year between 1940 and 1944, and nearly $375,000 since that date. For the years 1940-42, the Department of Agriculture transferred about $100,000 per year to provide data required in its work, and since 1947 the Bureau of Reclamation has transferred about $25,000 per year to meet the increasing needs of their program in the Western States.

Previous to the introduction of this bulletin series, data from Hydroclimatic Network stations were presented in bulletins (Hydrologic Bulletins) which were issued monthly for each of 8 drainage areas embracing the entire United States, but since the Network was established to meet the internal requirements of the Federal agencies referred to above, no provision was made for public dissemination of the data, distribution being limited to cooperating agencies and to certain public repositories. A list of locations where reference copies of the Hydrologic Bulletin Series are available for inspection may be obtained upon application to Chief, U. S. Weather Bureau, Washington 25, D. C.

Many other records published in this bulletin have been made available through the cooperation of various public offices, private agencies, and individuals as listed in the Station Index.

Tables 6 and 7 for this issue will be found on page 170.

STATION INDEX

Station	Index No.	County	Drainage	Latitude	Longitude	Elev. (ft.)	Time of observation			Years of record			Observer	Refer to tables
							Zone	Temp.	Precip.	Temp.	Precip.	Evap.		
Advance AP	0022	Stoddard	St. Francis	37 06	89 55	354	C	MID	MID	11	11		U. S. Airways Com. Sta.	2 3 4 5
Albany	0051	Gentry	Grand	40 15	94 20	930	C	6P	6P	7	19		William J. Butler	2 3 5
Alton 10 mi. SE	0122	Oregon	Black	36 41	91 24		C		6P		7			Closed 12-15-48
Alton 6 mi. ENE	0127	Oregon	Black	36 42	91 19		C				8		Loyd E. Black	3 4
Altona	0135	Bates	Osage	38 24	94 13		C		8A		12		Ina Chitty	3
Amity	0143	DeKalh	Grand	39 52	94 26	1620	C	6P	6P	2	13		O. M. Colhour	2 3 5
Amsterdam	0151	Bates	Osage	38 21	94 35		C				8		R. A. Kershner	3 4
Anderson 2 mi. SW	0164	McDonald	Neosho	36 39	94 21	1000	C	7A	7A	44	49		Samuel G. Chamberlain	2 3 5
Annapolis	0179	Iron	Black	37 20	90 47		C		7A		4		Opal G. Ritter	3
Appleton City	0204	St. Clair	Osage	38 13	94 05	800	C	6P	6P	53	56		F. Paul Eye	2 3 4 5
Arcadia	0224	Iron	St. Francis	37 35	90 37	926	C	7A	7A	67	70		Arcadia College	2 3 5
Ashton 1 W	0312	Clark	Mississippi	40 27	91 49		C						Glen A. Woodruff	3 4
Auxvasse	0357	Callaway	Missouri	39 01	91 54		C		7A		5		C. H. Hook	3
Ava Ranger Station	0365	Douglas	White	36 57	92 40		C		8A		3		U. S. Forest Service	3
Bedford 1 mi. S	0503	Livingston	Grand	39 42	93 23		C				8		Barry S. Stephans	3 4
Belleview	0539	Iron	Meramec	37 41	90 44		C		7A		12		Edna M. Keesling	3 4
Bernie	0595	Stoddard	St. Francis	36 40	89 58		C		7A		3		Carrie P. Wicks	3 4
Bethany	0608	Barrison	Grand	40 15	94 02	916	C	6P	6P	53	55		B. A. McGregor	2 3 5
Birch Tree	0668	Shannon	Black	36 59	91 30	1000	C	5P	7A	53	54		Mildred E. Catlett	2 3 5
Black 9 mi. NW	0695	Iron	Black	37 36	91 03	1000	C	7P	7P	55	55		J. Cornell Shy	2 3 5
Bloomfield	0735	Stoddard	St. Francis	36 54	89 57		C		7A		3		R. Lynn Marine	3
Blue Lick	0747	Saline	Saline	38 59	93 12		C		7A				W. H. Jocohy	3
Bolivar	0789	Polk	Osage	37 37	93 25	1071	C	5P	5P	45	53		SW Baptist College	2 3 4 5
Boonville	0812	Cooper	Missouri	38 58	92 45		C		7A		71		Rufus W. Weed	3 7
Boonville Waterworks	0817	Cooper	Missouri	38 58	92 45	650	C	8A	8A	10	10		Boonville Water Dept.	2 3 5
Bowling Green	0856	Pike	Mississippi	39 21	91 12		C		8A		18		Virgil Cook	3
Bradleyville	0878	Taney	White	36 46	92 53		C		7A		3		Elmer C. Hubbard	3
Brookfield	0980	Linn	Grand	39 47	93 05	767	C	8A	8A	7	7		G. F. Breen	2 3 5
Browning 3 mi. NE	1003	Linn	Grand	40 03	93 06		C		7P		5		Herman F. Kille	3
Brunswick	1037	Chariton	Grand	39 26	93 08	652	C	7A	7A	67	69		O. K. Benecke	2 3 5 7
Buffalo	1087	Dallas	Osage	37 38	93 05		C		8A		17		L. H. Howerton	3
Bunker	1101	Reynolds	Black	37 30	91 15		C		7A		4		C. D. Highley	3
Burlington Junction	1141	Nodaway	Missouri	40 26	95 04		C		7A				U. S. Reavis	3
Butler	1145	Bates	Osage	38 16	94 20	865	C	6P	6P	2	7		Barley W. Johnson	2 3 5
Camdenton	1212	Pulaski	Osage	38 03	92 47	940	C	4P	4P	2	2		Mo. Conserv. Com.	2 3 5
Campbell	1221	Dunklin	St. Francis	36 29	90 04	314	C	5P	5P	22	22		Ruth Christian	2 3 5
Canton Lock & Dam 20	1275	Lewis	Mississippi	40 08	91 31	488	C	7P	7A	10	18		Lockmaster	2 3 5
Cap Au Gris Lock & Dam 25	1283	Lincoln	Mississippi	39 00	90 41		E		7A		2		U. S. Engineers	3 4
Cape Girardeau Mo. State	1291	Cape Girardeau	Mississippi	37 18	89 32	347	C	5P	5P	3	3		State Teachers College	2 3 5
Cape Girardeau	1296	Cape Girardeau	Mississippi	37 18	89 32		C		7A		48		Lee L. Albert	3 7
Caplinger Mills	1304	Cedar	Osage	37 48	93 49		C	6P	6P		22		S. E. Price	2 3 5
Carrollton	1340	Carroll	Missouri	39 22	93 30	754	C	6P	6P	2	2		Harold E. Finley	2 3 5
Carthage	1356	Jasper	Spring	37 11	94 17	962	C	6P	6P	14	24		Carthage W & E Plant	2 3 5
Caruthersville	1364	Pemiscot	Mississippi	36 17	89 40	265	C	5P	7A	52	56		Victor T. Malloure	2 3 5 7
Cassville Ranger Station	1383	Barry	White	36 41	93 52		C		8A		8		J. Alice Quillinan	3 4
Centerville	1467	Reynolds	Black	37 26	90 57		C		7A		3		Corda Jane Harrison	3
Centerville Ranger Station	1472	Reynolds	Black	37 26	90 57		C		8A		12		U. S. Forest Service	3
Centralia	1482	Boone	Mississippi	39 12	92 08		C		8A		12		Earl W. Seymour	3
Chadwick	1490	Christian	White	36 56	93 03		C		7A		2		Sylvia Fletcher	3
Chillicothe 2 mi. S	1580	Livingston	Grand	39 45	93 33	771	C		7A		33		B. O. Dupy	3 7
Chillicothe AP CAA	1585	Livingston	Grand	39 47	93 30		C	MID	MID	39	42		U. S. Airways Com. Sta.	2 3 5
Clarksville Lock & Dam 24	1640	Pike	Mississippi	39 22	90 55		E						U. S. Engineers	3 4
Clearwater Dam Site	1674	Wayne	Black	37 08	90 47	648	C	4P	7A		8		U. S. Engineers	2 3 4 5
Clifton City	1704	Cooper	Missouri	38 45	93 02		C		7A				F. S. Needy	3
Clinton	1711	Henry	Osage	38 22	93 46	786	C	MID	MID	55	61		U. S. Weather Bureau	2 3 4 5
Columhia WB Airport	1790	Boone	Missouri	38 58	92 22		C	MID	MID	8	8		U. S. Weather Bureau	2 3 4 5
Columhia WB City	1795	Boone	Missouri	38 57	92 20		C	5P	5P	58	58		U. S. Weather Bureau	2 3 4 5
Columbia Univ. of Mo. 9 mi. NW	1800	Boone	Missouri	38 59	92 28		C	5P	5P	4	4	4	Rohert E. Lee	2 3 4 5 6
Conception	1822	Nodaway	Missouri	40 14	94 40	1108	C	5P	5P	59	64		Fr. Adelheim Hess	2 3 5
Concordia	1837	Lafayette	Missouri	38 59	93 34	783	C		7A		31		Lloyd Beissenherz	3
Cook Station	1870	Crawford	Meramec	37 48	91 27		C		7A		4		Thos. J. Gorman	3
Crane Mountain	1980	Iron	St. Francis	37 27	90 38		C		9A		4		Roy E. Thomlison	3
Crocker	2004	Pulaski	Osage	37 59	92 15		C		6P		17		Charles Iden	3
Crystal City	2031	Jefferson	Mississippi	38 13	90 23	420	C	5P	5P	14	14		Richard K. Ragland	2 3 5
Cuba	2043	Crawford	Meramec	38 04	91 24		C		7A		11		Rehm E. Thielecke	3
Deering	2156	Pemiscot	St. Francis	36 12	89 52		C		7A		6		Thomas N. Wood	3
De Sota	2220	Jefferson	Mississippi	38 09	90 34		C		7P		4		Roy E. Dewey	3
Dexter	2235	Stoddard	St. Francis	36 47	89 58		C		6A		24		J. L. Jackson	3
Doniphan	2289	Ripley	Black	36 37	90 49	344	C	6P	6P	44	44		Boyce Lackey	2 3 5
Doniphan 2 mi. W	2294	Ripley	Black	36 37	90 51		C		7A		3		Geo. Baumgardner	2 7
Dora	2302	Ozark	White	36 46	92 13		C				8		Alta M. Deupree	3 4
Downing	2318	Schuyler	Mississippi	40 29	92 20		C		5P		7		Edward L. Beeler	3 4
East End	2406	Iron	Meramec	37 41	91 02		C		7A		4		C. O. Smith	3
Edgerton	2474	Platt	Missouri	39 30	94 37	856	C	7A	7A	28	45		Leroy H. Mindrup	2 3 5
Edina	2482	Knox	Mississippi	40 10	92 10		C		7A		19		Paul D. Pettit	3
Eldon	2503	Miller	Missouri	38 20	92 35	934	C	5P	5P	53	49		Arthur Rothwell	2 3 5
Eldorado Springs	2511	Cedar	Osage	37 52	94 01		C		6P		18		Clyde J. Snodgrass	3
Elijah	2519	Ozark	White	36 36	92 09		C		7A		3		Loyd Price	3
Ellington	2547	Reynolds	Black	37 14	90 59		C		7A		8		S. Phronia Sanders	3 4
Ellsinore	2563	Carter	Black	36 56	90 45		C		5P		4		Clinton Sheets	3
Elsherry	2591	Lincoln	Mississippi	39 10	90 47	449	C	8A	8A	17	17		Soil Conserv. Serv.	2 3 5
Eminence	2617	Shannon	Black	37 11	91 23	1250	C				7		Thomas J. Chilton	3 4
Fairfax	2729	Atchison	Tarkio	40 20	95 24		C						Dillard A. Price	3
Farmington	2809	St. Francois	St. Francis	37 47	90 26	896	C	7P	6A	37	51		F. M. Karsch	2 3 4 5
Fayette	2823	Boward	Missouri	39 09	92 41	760	C	6P	6P	68	65		Irvin E. Schnell	2 3 5
Fisk	2881	Butler	St. Francis	36 47	90 12		C		7A		18		Charles E. Hargrove	3 7
Forsyth	2975	Taney	White	37 41	93 06		C		7A		8		Otto Kenyon	3 4 7
Fredericktown	3038	Madison	St. Francis	37 33	90 17		C		7A		23		R. H. Leslie	3
Fremont Tower	3052	Carter	Black	37 08	91 20		C		8A				Thelman Palmer	3
Fulton	3079	Callaway	Missouri	38 51	91 57	818	C	8A	8A	60	56		Frank E. Hillgartner	2 3 4 5
Galena	3094	Stone	White	36 48	93 28		C		7A		36		Maynard L. Stewart	3
Gallatin	3102	Daviess	Grand	39 55	93 57		C		7A		46		S. C. Poe	3 7
Gerald	3178	Franklin	Meramec	38 24	91 20		C		6P		7		Edwin H. Vernner	3
Granby	3341	Newton	White	36 55	94 15		C		7A		4		Mildred B. Hatcher	3
Grant City	3369	Worth	Grand	40 29	94 25	1134	C	6P	6P	44	56		J. Homer Korn	2 3 4 5
Greenville 1 mi. SW	3451	Wayne	St. Francis	37 06	90 27	415	C	5P	7A	39	41		C. L. Ruhottom	2 3 5
Hailey	3537	Barry	White	36 42	93 43		C		6P		27		William Madison	3
Hamden	3565	Chariton	Chariton	39 36	92 47		C				8		Mary M. White	3 4
Hannibal	3596	Marion	Mississippi	39 42	91 20	759	C		7A		6		P. B. Stelmann	3 7
Hannibal Waterworks	3601	Marion	Mississippi	39 41	91 20	759	C	MID	MID	56	64		Hannihal Water Dept.	2 3 5
Harris	3641	Sullivan	Grand	40 18	93 22		C				8		John E. Miller	3 4
Harrisonville	3649	Cass	Osage	38 39	94 20	904	C	7A	7A	70	73		Jeffrey B. Patterson	2 3 5
Hermann	3793	Gasconade	Missouri	38 42	91 25		C		7A		74		Joseph G. Rehsamen	3 7
Bigh Lookout	3845	Shannon	Black	36 53	91 27		C		6P		4		John Scoville	3
Bornersville	3999	Dunklin	St. Francis	36 03	90 06		C				8		Sallie E. Perkins	3 4
Bouston 1 mi. W	4021	Texas	Gasconade	37 20	91 53		C				8		Austin McKinney	3 4
Jackson	4226	Cape Girardeau	Mississippi	37 23	89 40	428	C	5P	5P	57	58		Danny Siehert	2 3 5
Jeff City Radio KWOS	4271	Cole	Missouri	38 35	92 12	557	C	6P	7A	58	66		KWOS Radio Farm	2 3 5
Jefferson City	4276	Cole	Missouri	38 34	92 11		C		7P		7		Rohert R. Henderson	3 4
Jerome	4291	Phelps	Gasconade	37 56	91 59		C		7A		46		G. A. Brinkley	3 7
Jewett	4299	Madison	St. Francis	37 23	90 29		C				8		Fred Goelkel	3 4
Joplin AP CAA	4315	Jasper	Neosho	37 10	94 30	988	C	MID	MID	26	43		U. S. Airways Com. Sta.	2 3 5
Kahoka	4349	Clark	Mississippi	40 25	91 43		C		8A		19		Wesley E. Hayden	3
Kansas City WB Airport	4359	Jackson	Missouri	39 07	94 35	741	C	MID	MID	59	59		U. S. Weather Bureau	2 3 4 5 7
Kansas City St. John & Elmwood	4364	Jackson	Missouri	39 06	94 32		C		MID		6		Lester Applegate	3 4

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Station	Index No.	County	Drainage	Latitude	Longitude	Elev. (ft.)	Time of observation			Years of record			Observer	Refer to tables
							Zone	Temp.	Precip.	Temp.	Precip.	Evap.		
Kansas City 75th & Holmes	4369	Jackson	Missouri	39 00	94 35		C		MID		6		Lester Applegate	3 4
Kansas City 37th & Raytown Rd.	4374	Jackson	Missouri	39 03	94 30		C		MID		6		Lester Applegate	3 4
Kansas City Univ. of K. C.	4379	Jackson	Missouri	39 02	94 35	908	C	6P	6P	10	10		Univ. of K. C.	2 3 4 5
Kidder	4481	Caldwell	Grand	39 47	94 06	1020	C	7P	7A	56	60		Geraldine Terry	2 3 5
King City	4505	Gentry	Missouri	40 03	94 31	1095	C		6P		40		John M. Martin	3
Kirksville	4544	Adair	Mississippi	40 12	92 34	969	C	6P	6P	59	66		Dow Jones	2 3 5
Kirksville AP CAA	4549	Adair	Mississippi	40 06	92 33	966	C	MID	MID	9	9		U. S. Airways Com. Sta.	2 3 4 5
Koshkonong	4625	Oregon	Black	36 35	91 39	958	C	6P	7A	47	48		Genevieve T. Smith	2 3 5
La Belle	4637	Lewis	Mississippi	40 07	91 55		C		8A		18		James M. Fishhack	3
Lakeside	4694	Miller	Osage	38 12	92 37	595	C	7A	7A	17	17	15	W. S. Frame	2 3 4 5 6 7
Lamar	4705	Barton	Neosho	37 30	94 16	980	C	7A	7A	60	67		Marie Mann	2 3 5
Lampe Forest Service	4727	Stone	White	36 34	93 26		C		7A		7		Orley F. Scott	3
Lampe 4 mi. NNE	4732	Stone	White	36 38	93 24		C						Mrs. Addis O. Rogers	3 4
Lathrop 3 mi. SW	4773	Clinton	Grand	39 32	94 22	1080	C	6P	6P	1	1		E. L. Fisher	2 3 5
Lehanon	4825	Laclede	Osage	37 42	92 45	1265	C	7A	7A	60	61		Rosa E. Montelius	2 3 4 5
Lecoma 3 mi. N	4828	Dent	Meramec	37 49	91 44	1140	C						R. W. McCracken	3 4
Leeper	4844	Wayne	Black	37 04	90 42		C		7A		23		Orville A. Roberts	3 7
Lexington	4904	Lafayette	Missouri	39 11	93 53	688	C	7A	7A	63	64		William H. Cullon	2 3 5
Licking 4 mi. N	4919	Texas	Gasconade	37 29	91 52	1170	C	6P	7A	11	11		Fern E. Austin	2 3 5
Linneus 2 mi. S	4978	Linn	Grand	39 50	93 12		C		5P		7		Merle Wade	3 4
Livonia	5014	Putnam	Chariton	40 29	92 42		C				8		Icel M. Tade	3 4
Lockwood	5027	Dade	Osage	37 23	93 57	1078	C	6P	7A	42	52		Huhert A. Nieman	2 3 4 5
Louisiana Starks Nur.	5093	Pike	Mississippi	39 26	91 02	469	C	6P	6P	54	67		Stark Bros. Nurseries	2 3 5
Louisiana	5098	Pike	Mississippi	39 27	91 03		C		7A		5		Crewdson W. Dillender	3
Lucerne	5121	Putnam	Grand	40 27	93 18		C		9A		7		D. A. Browning	3 4
Macedonia Lookout	5164	Ripley	Black	36 45	90 54		C		7A		4		Roy C. Rohinett	3
Macon	5175	Macon	Chariton	39 45	92 28	875	C	7A	7A	49	55		John W. Atwell	2 3 4 5
Madison	5183	Monroe	Mississippi	39 28	92 12		C		8A		14		Enos Wood	3
Malden	5205	Dunklin	St. Francis	36 34	89 57		C				7		Rollie H. Kennard	3 4
Mansfield	5227	Wright	White	37 06	92 35		C		7A		3		Henry O. Brown	3
Marhle Hill	5253	Bollinger	Mississippi	37 18	89 59	532	C	5P	5P	53	55		R. A. DeWitt	2 3 5
Marshall AP CAA	5298	Saline	Missouri	39 06	93 12		C	MID	MID		8		U. S. Airways Com. Sta.	2 3 4 5
Marshfield	5307	Wehster	White	37 20	92 54	1484	C	5P	5P	3	7		Sho-Me Power Co.	2 3 5
Martinshurg	5319	Audrian	Missouri	39 06	91 41		C		7A		4		H. Freese	3
Maryville	5340	Nodaway	Missouri	40 21	94 52	1169	C	6P	6P	58	54		R. B. Montgomery	2 3 5
Maryville 6 mi. NNW	5345	Nodaway	Missouri	40 25	94 53	1160	C						Earl W. Truehlood	3 4
McCredie 2 mi. W	5410	Callaway	Missouri	38 58	91 58		C				8		Lelia B. Craig	3 4
McCredie Exp. Station	5415	Callaway	Missouri	38 57	91 54		C		MID		8		U. S. Soil Conserv.	3 4
Memphis	5492	Scotland	Mississippi	40 27	92 10	787	C	7A	7	9	18		John W. Alexander	2 3 5
Mercer 6 mi. NW	5519	Mercer	Grand	40 33	93 35		C		7A				Oscar L. Hartley	3
Mexico	5541	Audrain	Mississippi	39 10	91 53	800	C	7A	7A	59	70		D. N. Woods	2 3 5
Middletown 2 SW	5565	Montgomery	Mississippi	39 07	91 25		C						Wendell D. Meyer	3 4
Milan	5578	Sullivan	Grand	40 12	93 07		C		7A		25		Charles E. Smith	3
Moherly AP 4 mi. NE	5671	Randolph	Mississippi	39 28	92 25	860	C	8A	8A	11	11		Robert J. Platter	2 3 4 5
Monett	5700	Barry	Neosho	36 53	93 55	1317	C	7A	7A	1	1		M. U. Fruit Exp. Sta.	2 3 5
Monroe City	5708	Monroe	Mississippi	39 39	91 44		C		SS		25		J. S. Conway	3
Mora	5754	Benton	Missouri	38 32	93 13		C				8		Emma M. Meyer	3 4
Morehouse	5762	New Madrid	Mississippi	36 51	89 41		C		4P		37		J. A. Spence	3
Moselle	5816	Franklin	Meramec	38 23	90 54		C		8A		3		A. Lampert	3
Mountain Grove 2 mi. N	5834	Wright	Gasconade	37 09	92 16	1463	C	5P	8A	47	1		M. U. Fruit Exp. Sta.	2 3 4 5
Mount Vernon 3 mi. SW	5861	Lawrence	Neosho	37 04	93 52	1174	C	6P	6P	36	48		William E. Kirchhoff	2 3 5
Neosho	5976	Newton	Neosho	36 52	94 22	1011	C	5P	5P	61	65		U. S. Fisheries Sta.	2 3 5
Nevada	5987	Vernon	Osage	37 50	94 21	862	C	6P	6P	55	56		Henry Kraft	2 3 4 5
New Florence AP 1 mi. SE	6007	Montgomery	Missouri	38 53	91 26	885	C	MID	MID	5	6		U. S. Airways Com. Sta.	2 3 4 5
New Madrid	6040	New Madrid	Mississippi	36 35	89 31		C		6A		54		Wess Hensley	3 7
Oates Tower	6263	Reynolds	Black	37 32	91 03		C		7A		3		Ethel Sue Adams	3
Odessa	6269	Lafayette	Missouri	39 00	93 57		C		7A				William E. Dougherty	3
Oregon	6357	Holt	Missouri	39 59	95 09	1093	C	MID	MID	92	92		James M. Curry	2 3 5
Osceola 3 mi. NE	6407	St. Clair	Osage	38 05	93 42		C		7A		7		Sam H. Simmons	3 4 7
Owensville	7438	Gasconade	Gasconade	38 21	91 30		C		8A		5		A. C. Poppenhouse	3 4
Ozark	6452	Christian	White	37 01	93 13		C		7A		3		William L. Reed	3
Ozark Beach	6460	Taney	White	36 40	93 07	700	C	8A	8A	8	23		Empire Dist. Elec. Co.	2 3 5
Pacific	6468	Franklin	Meramec	38 29	90 44		C		7A		59		Arthur D. Lewis	3
Palmyra	6493	Marion	Mississippi	39 48	91 31		C		8A		42		Dan Hamlin House	3
Paris	6509	Monroe	Mississippi	39 29	92 00				8A		18		J. W. Reed	3
Parma	6532	New Madrid	St. Francis	36 37	89 48		C		7A		24		Laura E. Morgan	3
Pattonshurg	6563	Daviess	Grand	40 03	94 09		C				8		Wade D. Moody	3 4
Perry 1 mi. E	6633	Ralls	Mississippi	39 25	91 41		C		5P		18		Guy R. Milton	3 4
Perryville	6641	Perry	Mississippi	37 44	89 51		C		6P		7		Werner T. Weher	3
Philadelphia	6667	Marion	Mississippi	39 50	91 44		C		4P		15		Lynn S. Feaster	3
Pierce City	6678	Lawrence	Neosho	36 57	94 00		C		5P		4		John P. Davis	3
Pineview Lookout	6700	Barry	White	36 42	93 37		C		8A				Charles M. Miller	3
Pleasant Hill	6748	Cass	Osage	38 48	94 17		C		6A		10		Dean T. Knorpp	3
Polo	6775	Caldwell	Missouri	39 33	94 03	1000	C	7A	7A	2	2		F. B. Alhright	2 3 4 5
Poplar Bluff	6791	Butler	Black	36 45	90 24	339	C	7A	7A	43	44		Osmon M. Richardson	2 3 5
Potosi 2 mi. S	6826	Washington	Mississippi	37 55	90 47		C				8		Arthur M. Riehl	3 4
Puxico	6934	Stoddard	St. Francis	36 37	90 09		C		7A		3		Treval Pearman	3
Qulin	6970	Butler	St. Francis	36 36	90 14		C		7A		3		Torrence J. Johns	3
Reynolds	7094	Reynolds	Black	37 24	91 05		C		7A		4		Effie V. Hill	3
Richwoods	7122	Washington	Meramec	38 09	90 50		C		7A		5		Elma M. DeClue	3 4
Ridgeway 1 mi. SE	7130	Harrison	Grand	40 22	93 57		C				6		Keith Jackson	3 4
Rohy	7214	Texas	Gasconade	37 30	92 08		C		6P		6		Roy E. Daniels	3
Rogersville	7255	Wehster	White	37 07	93 03		C						Gladys C. Shockley	3 4
Rolla School of Mines	7263	Phelps	Gasconade	37 57	91 46	1202	C	9A	9A	48	64		Rolla School of Mines	2 3 4 5
Rolla 5 mi. SE	7264	Phelps	Meramec	37 54	91 43	1100	C						Walter W. Snelson	3 4
Rolla 3 mi. W	7265	Phelps	Gasconade	37 57	91 50	865	C						Leslie H. Underwood	3 4
Rolla 4 mi. SE	7266	Phelps	Meramec	37 56	91 43	1040	C						Mrs. Hallen P. Light	3 4
Rolla 7 mi. S	7267	Phelps	Meramec	37 51	91 46	970	C						Gertrude Ponzer	3 4
Round Spring	7309	Shannon	Black	37 18	91 25				7A		4		C. E. Jones	3
Saint Charles	7397	St. Charles	Missouri	38 47	90 29	520	C	6P	7A	60	70		Myrtle Briegel	2 3 5 7
Saint James 3 mi. NW	7424	Phelps	Meramec	38 01	91 40	1005	C						William S. Jones	3 4
Saint Joseph WB Airport	7440	Buchanan	Missouri	39 46	94 55	957	C		6A	38	76		U. S. Weather Bureau	2 3 4 5 7
Saint Louis WB Airport	7455	Saint Louis	Missouri	38 45	90 23	556	C	MID	MID	11	17		U. S. Weather Bureau	2 3 4 5
Saint Louis WB City	7460	St. Louis City	Mississippi	38 38	90 12	465	C		7A	111	111		U. S. Weather Bureau	2 3 4 5 7
Saint Louis Univ.	7465	St. Louis City	Mississippi	38 38	90 14	578	C	MID	MID	36	36		St. Louis University	2 3 5
Saint Louis Wash. Univ.	7470	St. Louis Citv	Mississippi	38 39	90 18		E	8A	8A		8	10	John Hopp, R. L. Brust	2 3 4 5 6
Saint Thomas	7497	Cole	Osage	38 22	92 13		C		7A		7		John Morff	3 7
Salem	7506	Dent	Meramec	37 38	91 33	1206	C	7A	7A	44	47		E. E. Martin	2 3 4 5
Salishury	7514	Chariton	Chariton	39 26	92 48	723	C	6P	6P	2	2		David H. Rohertson	2 3 5
Saverton Lock & Dam 22	7578	Ralls	Mississippi	39 38	91 16	472	C	7P	7A	10	10		Lockmaster	2 3 5
Sedalia	7632	Pettis	Missouri	38 42	93 14	910	C	5P	7A	35	37		Dr. J. E. Cannaday	2 3 5
Seligman	7645	Barry	Neosho	36 31	93 56	1542	C	7P	7A	47	45		Floyd E. Fawver	2 3 5
Seneca	7656	Newton	Neosho	36 50	94 57		C				3		Hosea N. Harrison	3 4
Seymour 4 mi. NNE	7674	Wehster	White	37 12	92 45	1640	C	7A	7A	42	42		Claude E. Garfit	2 3 5
Shelbina	7720	Shelhy	Mississippi	39 42	92 03	779	C	6P	6P	7	55		Julian C. Weston	2 3 5
Shelhyville	7728	Shelhy	Mississippi	39 48	92 02		C		5P		17		Emmett L. Goe	3
Shell Knob	7740	Barry	White	36 37	93 35		C		8A		3		Lionel Jung	3
Sikeston	7770	Scott	Mississippi	36 53	89 35	318	C	7A	7A	41	51		Lucy W. Humphreys	2 3 5
Siloam Springs	7780	Howell	White	36 48	92 04		C		7A		4		Bess M. Byers	3
Skidmore	7813	Nodaway	Missouri	40 17	95 05		C				8		Nina B. Geyer	3 4
Spring City	7967	Newton	Neosho	37 00	94 32		C				8		Gladys J. Cameron	3 4
Springfield WB Airport 4 mi NW	7976	Greene	Osage	37 14	93 23	1265	C	MID	MID	60	60		U. S. Weather Bureau	2 3 4 5
Stanherry	8003	Gentry	Grand	40 12	94 33		C				6		R. Trueman Wagers	3 4
Steelville 2 NNE	8043	Crawford	Meramec	37 59	91 22		C		7A		7		William Diehl	3 4

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Station	Index No.	County	Drainage	Latitude	Longitude	Elev. (ft.)	Time of observation			Years of record			Observer	Refer to tables				
							Zone	Temp.	Precip.	Temp.	Precip.	Evap.						
Steffenville	8051	Lewis	Mississippi	39 58	91 53	650	C	6P	6P	50	55		Fannie V. Gross	2	3	4	5	
Stover	8112	Morgan	Missouri	38 26	93 02		C		7A		24		H. Kyle Vickery		3			
Sugar Camp Lookout	8160	Barry	White	36 32	93 50		C		8A				Ralph L. Richardson		3			
Sullivan 3 mi. SE	8171	Washington	Meramec	38 13	91 06		C		7A		7		George J. Hussman		3	4		7
Summersville	8184	Texas	Black	37 11	91 40		C		7A		4		Roy W. Wall		3			
Sweet Springs	8223	Saline	Missouri	38 58	93 25	700	C	6P	6P	7	7		H. F. Nelson	2	3		5	
Tarkio AP CAA	8289	Atchison	Missouri	40 27	95 22	916	C	MID	MID	45	54		U. S. Airways Com. Sta.	2	3	4	5	
Tecumseh	8313	Ozark	White	36 35	92 17		C		7A		3		Tom Chandler		3			
Topaz	8412	Douglas	White	36 56	92 12		C		8A		4		C. M. Loyd		3			
Trenton	8444	Grundy	Grand	40 05	93 37	822	C		7A	52	53		W. H. Estes	2	3	4	5	7
Troy	8456	Lincoln	Mississippi	38 59	90 59		C		7A		17		Robert L. Nichols		3			
Union 2 mi. SE	8515	Franklin	Meramec	38 27	91 00	520	C	6P	7A	10	31		Cornelius Sieges	2	3		5	7
Unionville	8523	Putnam	Chariton	40 38	93 00	1062	C	6A	6A	55	55		George D. Choate	2	3		5	
Valley Park	8561	Saint Louis	Meramec	38 33	90 30		C		7A		31		Nathaniel W. Henlon		3			7
Van Buren	8569	Carter	Black	36 59	91 01		C		7A		11		Merle A. Smith		3			
Vandalia	8577	Audrain	Mississippi	39 19	91 30	766	C	5P	5P	4	9		Naomi K. Stoutz	2	3		5	
Vanzant	8585	Douglas	White	36 56	92 16		C		7A		4		C. D. Smith		3			
Vichy 2 mi. SE	8612	Maries	Meramec	38 05	91 44	1040	C						Virginia F. Huffman		3	4		
Vichy AP CAA 2 mi. NW	8614	Maries	Gasconade	38 08	91 46	1125	C	MID	MID	12	13		U. S. Airways Com. Sta.	2	3		5	
Villa Ridge 3 mi. NW	8630	Franklin	Missouri	38 29	90 55		C				8		Vincent Hellman		3	4		
Waco	8664	Jasper	Spring	37 15	94 36		C		7A		2		Lester O. Sigars		3			
Wappapello Dam	8700	Butler	St. Francis	36 55	90 17	475	C	8A	8A	9	9		U. S. Engineer Office	2	3	4	5	
Warrensburg Central T. C.	8712	Johnson	Missouri	38 46	93 44	878	C	5P	5P	61	68		Central Teachers College	2	3		5	
Warrensburg 4 mi. E	8717	Johnson	Missouri	38 45	93 39		C				8		Leah P. Prussing		3			
Warrenton	8725	Warren	Mississippi	38 49	91 08	880	C	5P	5P	66	58		W. T. Zimmerman	2	3	4	5	
Warsaw No. 1	8733	Benton	Osage	38 15	93 21	687	C	5P	7A		53		Dora Johnson	2	3		5	
Warsaw No. 2	8738	Benton	Osage	38 15	93 21		C		8A		31		Ruth A. Pierce		3			7
Washington 3 mi. S	8746	Franklin	Missouri	38 31	91 00		C				8		Joe Ludewig		3	4		
Wasola	8754	Ozark	White	36 48	92 34	1294	C	7P	7A	7	8		A. W. Pinckney	2	3	4	5	
Waverly	8768	Lafayette	Missouri	39 13	93 31		C		8A		33		Harry McKim		3			7
Waynesville 2 mi. E	8777	Pulaski	Gasconade	37 50	92 11	805	C	7P	7P	2	2		Fred M. Sanderson		3			
Webster Groves	8791	Saint Louis	Mississippi	38 35	90 22	507	C	7P	7P	2	3		R. W. Lawrie	2	3		5	
Weingarten	8799	Saint Genevieve	Mississippi	37 53	90 13	833	C	5P	5P	7	8		William J. Miller	2	3		5	
West Plains	8880	Howell	Black	36 44	91 51	1005	C	MID	MID	11	11		U. S. Weather Bureau	2	3	4	5	
Williamsville	8984	Wayne	Black	36 58	90 33		C		7A		24		George W. Julian		3			
Willow Springs	8995	Howell	White	36 59	91 59	1238	C	6P	7A	7	41		Allen Frazee	2	3		5	
Willow Springs Forest Ser.	9000	Howell	Black	36 59	91 59		C				6		U. S. Forest Service		3	4		
Windsor 3 mi. NW	9032	Henry	Osage	38 34	93 33		C		6A				Logan Sutherland		3			
Zalma	9178	Bollinger	Mississippi	37 09	90 04		C		7A		11		Louis A. Dobbs		3			

NEW STATIONS

High Point 2 mi. NE	3849	Moniteau	Missouri	38 31	92 34		C						Irene C. Dutcher		3	4		
Keytesville 4 mi. NE	4449	Chariton	Chariton	39 27	92 52		C		7A				Jess W. Dooley		3			
Speed 2 mi. W	7960	Cooper	Missouri	38 51	92 50		C						Richard E. Stegner		3	4		
Vienna 3 mi. NW	8620	Maries	Osage	38 13	92 00		C						Arthur McKinney		3	4		
Williamsburg	8960	Calloway	Missouri	38 55	91 43		C						Mary W. Crump		3	4		
Sumner 2 S W	8188	Livingston	Grand	39 38	93 17		C		7A				John W. Guilford		3			
Novinger 1 E	6170	Adair	Chariton	40 14	92 41		C		7A				Vern M. Robison		3			
New Boston	5999	Lynn	Grand	39 57	92 51		C		7A				Gerald H. Hill		3			

REFERENCE NOTES

The four digit identification numbers in the Index number column of the Station Index are assigned on a state basis. There will be no duplication of numbers within a state.

Delayed data and corrections will be carried only in the June and December issues of this bulletin.

Stations appearing in the Index, but for which data are not listed in the tables, are either missing or received too late to be included in this issue.

Unless otherwise indicated, dimensional units used in this bulletin are: temperature in °F., precipitation and evaporation in inches, and wind movement in miles. Evaporation is measured in the standard Weather Bureau type pan of 4-foot diameter unless otherwise shown by footnote following Table 6.

When hourly precipitation is missing or accumulated for several days, only the first and last days are shown in Table 4.

Amounts in Table 4 are from recording gages. Traces are not shown.

Data in Tables 3, 5 and 6 are for the 24 hours ending at time of observation. See the Station Index for observation time.

-	No record.
+	And also on later dates.
*	Amount included in following measurement, time distribution unknown.
//	Gage is equipped with a windshield.
6	Precipitation measured at 6-hourly intervals, no recording gage.
B	Adjusted to a full month.
E	Water equivalent of snowfall wholly or partly estimated, using a ratio of 1 inch water equivalent to every 10 inches of new snowfall.
M	One or more days of record missing; see Table 5 for detailed daily record.
R	Station equipped with recording gage only. All amounts in Table 3 are for non-recording gages, except for stations with this reference.
T	Trace, an amount too small to measure.
V	Includes total for previous month.
Z	Hourly amounts from recording gage at the same site may be found in Table 4.
SS	This entry in time of observation column in Station Index means observation made near sunset.

Subscription Price: 15¢ per copy; $1.50 a year. (Yearly subscription includes Annual Summary). Correspondence regarding subscriptions should be addressed to the Weather Records Processing Center, 811 Fidelity Building, Kansas City, Missouri.

CORRECTIONS

June 1948, page 42, Lexington, date of Minimum Temperature should be the 1st. Page 43, St. Louis University, Mean Temperature and Departure from Normal should be 75.2 and 0.0, respectively. July 1948, page 53, Waco, Precipitation on the 31st should be .02, and Total Precipitation for the month should be 6.78. August 1948, Table 3, Altona, Total Precipitation should be 3.78. Table 7, Valley Park, readings from 3rd through 31st should be minus quantities. high should be 0.1 on the 1st and low should be -1.5 on the 26th. August through October 1948, Table 4, data published under name of Jefferson City should have been published under Jefferson City Radio KWOS. October 1948, Table 5, Poplar Bluff, Maximum Temperatures on the 7th and 21st should be 70 and 63 respectively. Minimum Temperature on the 17th should be 38. Mean Maximum should be 74.5 and Mean Minimum 41.1.

W. B. O. --- Washington, D. C. --- 3-23-49 --- 1400

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CLIMATOLOGICAL DATA

JUN 15 1949

MISSOURI

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ANNUAL SUMMARY 1948

Volume LII No. 13

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HIS

WASHINGTON: 1949

MISSOURI, 1948

H. F. Wahlgren, Section Director - Saint Louis

GENERAL SUMMARY

The year 1948 was a normal one with respect to average temperature for the State as a whole. The extremes of temperature were not unusual. Precipitation for the year was slightly below the 61-year average; however, the early summer was exceptionally wet. With the exception of a few periods the year, as a whole, was favorable for most activities which are seriously affected by weather conditions. Major storm damage occurred in January, March, May and June, with some serious local damage reported in April and July. No serious floods occurred on the major rivers, but during the periods of heavy precipitation in June and July, extensive flooding occurred in many of the smaller streams throughout the State, and resulted in considerably above-normal stages for that season of the year, in some of the larger rivers and minor flooding of low ground.

The average temperature, 55.2°, was the same as the 61-year average. Only the months of January and April had any marked departures from their normals. January was exceptionally cold, with a departure of -5.2°, and April exceptionally warm with a departure of +5.2°. The highest temperature reported was 104° at Greenville and Marble Hill on August 22d, and at Brookfield on August 24th. The lowest temperature reported was 26° below zero at Bethany on December 26th. The 11th and 12th of March were exceptionally cold for so late in the season, with near or below-zero temperatures reported in all sections of the State, except the extreme southeast corner. Lower minimum March temperatures were reported only in 1943.

The average precipitation for the year was 39.59 inches, compared with the 61-year average of 40.49 inches. The average for the month of April was the least for any April during the period of record. Heavy to excessive precipitation in June and July made the early summer exceptionally wet. During this period heavy precipitation occurred in all sections of the State. Several stations reported 24-hour amounts in excess of 4 inches, and three reported amounts in excess of 5 inches. Monthly totals for June ranged as high as 17.29 inches at Concordia, and for July, 14.75 inches at Owensville. Snowfall for the year was somewhat above the average.

January was not a favorable month for outside work. Cold and rather frequent periods of precipitation limited most field work to extreme southern sections. Traffic on highways was halted or seriously impeded by a severe glaze and sleet storm on the 1st over much of the State and locally on several other dates. Winter grains were sufficiently protected by snow cover and were not damaged by cold weather. Minor floods occurred in the Black, Meramec and St. Francis Rivers early in the month, with little damage reported. Major storm damage occurred in the glaze, sleet and wind storm of the 1st.

February was normal in most respects. Usual outdoor activities were not affected. Minor windstorm damage occurred on the 27th; total amount reported was $2,500. Minor flooding occurred in some localities on the Grand and Mississippi Rivers.

March was rather cold, wet and windy. Outside activities were somewhat delayed; however, any losses caused by delay were more than compensated for by the above-normal precipitation, which ended the water shortage that had developed in some localities. Heavy storm damage was reported during the last half of the month. Minor to moderate flooding occurred in the Grand, Meramec, Missouri and Mississippi Rivers.

April was mild and rather dry. It was a very favorable month for outside work, and delays caused by adverse weather during March were overcome. A tornado occurred on the 6th in Randolph County, and caused rather extensive damage in that locality. Slight flooding occurred in the Mississippi River.

May was a favorable month for all outdoor activities. Precipitation, although somewhat below normal, was mostly sufficient for current needs. Major storm damage occurred in some sections of the State on the 1st, and minor damage was reported on the 10th and 15th. Slight flooding occurred in the Mississippi and St. Francis Rivers.

June, although too wet for hay and small grain harvest, was an excellent month for growing crops. Rather extensive storm damage occurred during frequent wind, electrical and hail storms. Severe flooding in many of the smaller streams during the latter part of the month caused some crop damage. Minor flooding occurred in the Missouri, Gasconade, Grand and Osage Rivers.

Frequent precipitation during July continued to impede hay and small grain harvest, but growing crops continued to make better than average progress. A heavy hail and wind storm caused considerable damage in Linn County on the 27th. Severe flooding in many of the smaller streams continued from June. Minor to moderate floods occurred in portions of the Grand, Missouri, Meramec and Osage Rivers.

Favorable weather conditions prevailed throughout the month of August. Light precipitation permitted completion of the much-delayed small grain and hay harvest. Losses incurred from spoilage of small grain and hay were offset by the exceptionally large corn crop. Only minor storm damage was reported. Slight flooding occurred in the Missouri and Osage Rivers.

Favorable mild dry weather continued during most of September.

Ideal autumn weather prevailed through October. Killing frost occurred over much of the State on the 17-18th, but crops had generally matured and little damage resulted from the frost.

November was a favorable month for most seasonal outdoor activities. Minor windstorm damage occurred in scattered areas on the 16th, 19th, 27th and 28th.

December, as a whole, was favorable for usual outside winter pursuits. A general windstorm on the 5th resulted in widely scattered minor property damage throughout the State. A severe cold wave occurred on the 25-26th, when the lowest temperatures for the year were recorded.--HWR

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ACKNOWLEDGMENTS

In addition to the climatological data from some 6,000 Weather Bureau and cooperative weather stations, this bulletin series contains records from Hydroclimatic Network Stations which were formerly reproduced in the Hydrologic Bulletin Series. The Hydroclimatic Network is a nationwide net of rain gages--mostly of the recording type which produce continuous records of precipitation. It was established in 1939 at the request of the Corps of Engineers, Department of the Army, to supplement existing precipitation stations in order to provide records of rain fall intensity which were essential to the planning of flood control and related works by the Corps of Engineers. This Network, now numbering about 2,000 recording, and 1,000 non-recording rain gages, has been maintained by the Weather Bureau through working funds transferred annually to the Weather Bureau by the Corps of Engineers. These transfers averaged about $250,000 per year between 1940 and 1944, and nearly $375,000 since that date. For the years 1940-42, the Department of Agriculture transferred about $100,000 per year to provide data required in its work, and since 1947 the Bureau of Reclamation has transferred about $25,000 per year to meet the increasing needs of their program in the Western States.

Previous to the introduction of this bulletin series, data from Hydroclimatic Network stations were presented in bulletins (Hydrologic Bulletins) which were issued monthly for each of 8 drainage areas embracing the entire United States, but since the Network was established to meet the internal requirements of the Federal agencies referred to above, no provision was made for public dissemination of the data, distribution being limited to cooperating agencies and to certain public repositories. A list of locations where reference copies of the Hydrologic Bulletin Series are available for inspection may be obtained upon application to Chief, U. S. Weather Bureau, Washington 25, D. C.

Many other records published in this bulletin have been made available through the cooperation of various public offices, private agencies, and individuals as listed in the Station Index.

Table 1

AVERAGE TEMPERATURES AND DEPARTURES FROM NORMAL

MISSOURI
1948

Station	January		February		March		April		May		June		July		August		September		October		November		December		Annual	
	Temp	Departure	Temp	Departure	Temp	Departure	Temp	Departure	Temp	Departure	Temp	Departure	Temp	Departure	Temp	Departure	Temp	Departure	Temp	Departure	Temp	Departure	Temp	Departure	Temp	Departure
Advance AP	27.6	-6.7	36.4	-2.4	46.8	-1.2	60.8	3.3	64:8	-1.0	74.6	- .5	77.8	- .4	76.3	-1.0	69.1M	- .7	54.9	-4.3	47.9	1.8	40.3	3.8	56.4	- .8
Albany	21.8		27.8		37.2		58.2		63.0		71.4		77.0		75.7		70.5M		54.1		44.0		31.4		52.7	
Amity	21.9		28.2		36.8		58.7		63.1		71.8		76.8		75.8		70.8		55.2		43.8		32.2		52.9	
Andersoo 2 SW	27.0	-8.9	35.1	- .6	41.1	-7.7	61.6	4.9	62.6	-3.1	72.0	- .7	75.4	-1.9	73.4	-4.3	68.7	-2.3	55.2M	-3.5	45.3	-4.0	39.1	1.6	54.7	-2.5
Appletnn City	26.9	-4.4	33.6	- .3	42.6	-2.5	62.0	5.9	65.0	0.0	74.8	.4	77.6	- .6	77.4	- .4	71.0	.6	57.5	-1.4	46.2	.2	38.4	3.8	56.1	.1
Arcadia	25.8	-6.1	34.2	.1	42.6	-2.0	60.2	4.9	61.8	-2.3	71.2	- .6	76.0	.2	74.7	.4	69.4	1.8	53.5	-2.5	48.8	4.9	38.3	4.0	54.7	.2
Bethany	21.5	-3.3	27.4	- .1	36.1	-4.2	57.1	5.6	61.6	- .9	70.7	-1.3	76.6	.3	75.3	.3	69.4	2.3	52.6	-2.2	-		30.3	.2		
Birch Tree	28.3	-6.2	37.0	.7	45.2	-2.1	61.8M	4.7	63.2M	-1.8	73.2M	.5	76.9	.3	75.1	-1.0	69.2	- .6	55.2	-3.2	47.5	.9	39.3	2.9	56.0	- .4
Black 9 NW	24.0M	-8.6	33.2M	-1.1	43.7M	-1.3	-		62.4M	-1.6	71.6M	- .3	-		76.2M	1.7	-		-		-		-			
Bolivar	28.9	-5.0	36.0	.8	44.2	-2.1	62.6	6.3	64.4	- .4	74.0	1.2	77.8	.5	76.1	- .8	71.2	1.3	57.8	- .8	47.7	.9	40.1	4.5	56.8	.6
Boonville Waterwnrks	21.9	-7.2	29.4	-2.7	39.2	-4.1	58.5	4.6	63.0	- .4	71.8	- .8	76.0	-1.4	75.1	-1.1	68.6	.3	53.8	-5.6	42.5	0.0	33.0	.7	52.7	-1.5
Brookfield	21.8		28.8		39.4		58.6		63.6		73.2		78.8M		78.0		71.7		55.5		44.4		32.6		53.9	
Bruoswick	22.0	-4.7	28.6	-1.2	38.8	-3.1	58.0	3.8	62.8	-1.4	71.8	-1.2	77.8	1.7	76.6	2.4	70.9	3.9	54.4	- .9	45.2	3.6	33.8	3.2	53.4	.5
Butler	26.9		33.9		42.4		62.0		64.6		74.0M		77.6		75.6M		69.1M		56.2		46.0		37.4		55.5	
Camdentnn	29.8		37.0		46.3		64.8		65.6		74.2		78.4		77.8		71.3M		59.7		50.5		44.4M		58.3	
Camphell	31.0	-6.7	39.6	-2.5	50.0	2.0	-		67.8	.3	76.6	1.1	79.0	-1.4	77.6M	.4	70.7	- .9	58.0M	-2.1	47.8M	.2	43.1	4.7		
Canton Lnck Dam 20	23.6	-3.8	28.9	-2.2	39.4	-2.6	58.4	5.5	63.4	.8	72.8	.2	77.4	.4	76.2	- .1	70.5	1.9	53.5	-5.3	44.9	2.2	32.3	.6	53.5	- .1
Cape Girardeau Mo State	28.7		38.1		49.4		62.6		66.4		76.0		78.8		78.0		71.9		58.6		50.0		41.8		58.4	
Caplinger Mills	-		-		-		-		65.0		74.0		77.6		75.7		69.5		56.7		47.5		39.4			
Carrolltnn	23.4		31.0		40.4		59.9		63.4		72.6		78.2		76.4		70.0		53.4		44.4		33.9		54.1	
Carthage	29.8		37.4		45.2		64.3		66.0		74.8		78.2		76.3		71.2		57.0		48.4		41.3		57.5	
Caruthersvills	32.8	-6.3	41.5	1.2	52.1	.7	65.8	5.6	69.6	- .2	78.0	- .4	80.6	- .7	79.3	-1.0	73.1	-1.4	60.6	-1.6	52.7	2.3	45.3	4.4	61.0	.3
Chillicothe AP CAA	20.6	-3.8	27.2	-5.1	37.2	-4.5	57.8	5.8	62.3	- .6	71.6	- .7	77.0	0.0	75.9	.4	69.9	2.4	53.8	-1.2	43.3	2.0	30.7	.8	52.3	- .3
Clearwater Dam Site	29.8		38.5		46.9		63.1		64.8		74.0		78.0		77.1		71.0		57.1		48.9		40.9		57.5	
Clintnn	25.8	-5.9	32.8	- .8	41.2	-3.8	61.7	5.4	64.1	-1.4	73.7	- .1	78.0	- .3	76.8	- .8	70.7	- .1	57.1	-1.8	45.7	-1.3	37.9	3.2	55.5	- .8
Columbia WB Airport	23.4		31.0		40.7		59.6		63.1		72.4		76.8		75.9		69.7	55	55.3		45.3		35.0		54.0	
Columbia WB City	25.0	-5.9	32.6	.2	41.8	-1.1	61.0	6.2	64.2	- .8	73.7	.3	78.2	.9	77.1	.8	70.8	1.4	56.0	- .9	45.9	1.8	36.8	2.8	55.3	.5
Columbia Univ nf Mn 9NW	24.2		31.6		41.6		59.6		62.8		72.8		76.6		74.9		69.6		54.6		45.2		35.1		54.1	
Conceptinn	21.6	-3.1	27.6	- .6	35.8	-4.0	58.6	6.4	63.6	1.5	72.6	1.1	77.6	1.0	76.5	1.8	71.5	4.3	55.6	.2	43.5	2.1	31.1	1.9	53.0	1.1
Crystal City	27.6	-3.8	36.3	1.1	46.8	1.6	62.2	7.2	65.2	0.0	75.2	.9	78.3	-1.3	76.4	-1.8	70.8	1.9	55.4	-3.0	47.8	3.9	39.0	4.6	56.8	1.0
Doniphan	30.2	-5.6	39.6	.3	48.5	- .5	64.0	5.5	66.2	- .3	75.0	0.0	78.8	.2	77.4	- .2	70.2	-1.0	56.4	-2.1	49.2	1.9	41.0	3.2	58.1	.2
Edgertoo	21.5	-5.4	27.0	-7.3	36.0	-7.2	57.6	3.8	62.2	- .8	71.6	- .3	77.4	1.3	76.1	1.0	69.8	1.9	53.9	-2.4	43.5	1.7	30.7	.3	52.3	-1.1
Eldon	27.2	-3.9	34.2	1.1	43.6	0.0	61.9	6.5	64.2	0.0	73.1	.1	77.4	.2	76.4	0.0	70.2M	.8	56.8	- .6	47.4	2.6	38.7	4.4	55.9	.9
Elsberry	22.7	-8.9	29.9	-3.9	41.6	-1.9	57.6M	4.0	62.2	-2.5	71.1	-3.3	75.7	-3.7	74.0	-2.5	68.3	-1.0	52.5	-5.0	44.7	1.3	34.5	.1	52.9	-2.3
Farmingtnn	26.6	-6.0	35.2	-1.7	44.8	-1.7	60.0	3.1	62.2	-1.5	71.8	-1.0	75.2	-1.1	75.4	0.0	69.9	.3	55.2	-1.6	48.0	3.2	39.3	2.6	55.3	- .5
Fayette	24.4	-2.6	31.7	1.1	41.0	- .9	60.0	5.8	63.2	- .6	72.6	- .2	77.3	.1	75.7	- .2	70.2	2.1	55.0	-1.4	45.5	3.3	35.4	4.3	54.4	1.0
Fulton 4 SW	22.8	-6.7	30.5	-2.6	40.8	-3.3	59.7	5.1	62.7	-1.9	72.2	-1.0	77.0	- .7	74.8	-1.6	68.8	- .1	53.5	-3.9	45.0	.8	35.1	1.6	53.6	-1.2
Graot City	20.5	-4.3	27.0	-1.6	35.2	-6.1	56.8	4.6	62.4	.4	71.4	.6	76.4	.2	75.1	.2	70.5	3.5	54.1	-1.0	42.9	1.0	29.4	1.4	51.8	- .1
Greenville 1 SW	29.3	-5.7	38.8	3.0	48.0	.3	62.6	6.0	64.4	-1.5	74.2	.6	78.2	.8	77.2	.5	70.5	- .3	55.8	-1.8	48.8	3.4	41.0	4.8	57.4	.8
Hanoibal Waterwnrks	22.0	-5.1	29.0	- .7	39.2	-1.8	57.8	4.4	62.0	-1.6	71.7	- .8	76.2	- .6	75.6	.6	69.4	1.7	54.4	-1.6	45.1	3.0	34.2	2.7	53.0	0.0
Harrisonville	23.4	-3.9	30.5	- .2	39.8	-1.5	60.0	6.1	64.0	.2	73.0	- .1	76.9	- .8	76.9	1.0	71.2	2.7	57.4	1.3	44.5	2.0	35.5	4.2	54.4	.9
Jacksoo	27.7	-6.1	37.7	1.2	48.3	1.1	62.4	5.3	66.5	.9	76.0	1.9	79.4	1.8	78.5	2.4	71.3	1.2	56.9	-1.0	49.5	2.9	40.8	4.2	57.9	1.3
Jeff City Kadio KWOS	25.2	-4.6	33.2	1.1	43.0	- .6	60.7	4.7	62.4	-2.3	72.0	-1.8	76.4	-1.7	74.5	-2.2	69.5	.2	54.0	-2.8	46.4	-2.3	37.0	4.1	54.5	- .3
Jnplin AP CAA	28.2	-6.7	36.1	.3	42.9	-5.7	63.2	4.7	66.2	- .1	75.4	2.0	79.6	1.5	77.7	.4	71.9	- .2	58.4	-1.8	46.7	-1.6	39.8	.6	57.2	- .5
Kansas City WB Airport	25.1	-3.1	31.0	- .2	39.6	-3.1	61.8	7.0	65.5	.7	74.8	1.2	79.5	1.4	79.3	2.7	72.6	3.7	57.3	- .4	46.3	2.6	35.8	3.3	55.7	1.3
Kansas City Univ nf K.C.	25.9	-5.9	31.8	-3.8	40.2	-5.8	63.4	6.8	65.4	.4	74.3	- .1	78.5	-1.0	78.2	- .4	71.9	1.4	57.0	-4.2	47.0	2.2	37.3	2.5	55.9	- .7
Kidder	21.4	-4.6	27.7	- .7	36.8	-4.0	57.7	5.5	62.0	- .6	71.2	- .6	76.2	- .4	75.7	.3	70.4	3.1	54.2	-1.6	42.8	1.0	31.2	2.0	52.3	0.0
Kirksville	21.3	-3.5	28.4	1.3	38.0	-1.7	57.0	5.1	62.1	- .2	71.0	- .7	76.4	.4	75.4M	1.4	70.3	4.0	54.4	- .3	43.0	2.4	31.7	2.1	52.4	.8
Kirksville AP CAA	19.7		26.8		36.4		55.9		61.1		70.4		75.9		75.1		69.0		53.2		42.3		30.7		51.4	
Knshkonoog	30.8	-5.7	39.0	- .1	47.7	-1.7	65.1M	6.6	66.5	- .1	75.5	1.1	78.6	- .2	78.0	.1	72.1	.7	59.6	0.0	50.1	1.1	41.8	3.4	58.7	.4
Lakeside	26.2	-6.8	32.6	-1.4	41.5	-3.1	61.0	5.6	63.2	-2.9	72.4	-2.6	77.8	-2.7	76.4	-2.7	70.7	- .3	55.5	-4.3	46.6	2.1	37.6	.3	55.2	-1.5
Lamar	26.6	-5.5	33.3	-2.0	41.2	-4.8	60.4	3.8	62.7	-2.9	72.4	-1.8	76.1	-2.3	74.6	-3.1	68.9	-1.9	55.9	-3.0	45.5	- .8	37.9M	2.7	54.6	-1.8
Latbrop 3 SW	22.6		29.6M		37.8		58.6M		63.1M		72.0		77.4		76.3		70.2		56.1		44.3		33.0		53.4	
Lehanon	28.6	-3.9	35.8	1.4	44.2	- .8	59.9	4.4	62.5	-2.4	72.0	- .7	76.3	- .6	75.1	-1.0	69.8	.4	57.5	- .2	47.6	2.0	39.6	4.8	55.7	.2
Lexiogtnn	23.2	-4.6	29.8	-1.2	39.2	-4.2	59.8	5.2	64.9	.5	74.0	1.1	79.0	1.6	78.4	2.2	72.0	3.2	56.4	-1.1	45.1	.9	34.6	2.6	54.7	.5
Licking 4 N	27.8	-5.3	35.6	-2.3	44.2	-2.9	59.2	2.5	62.4	-2.0	72.1M	- .9	75.8M	-1.4	72.8M	-3.9	69.9M	.9	54.6M	-4.2	45.5M	.2	39.2M	2.8	54.9	-1.4
Lockwond	30.0	-3.3	36.9	- .1	44.8	-2.5	62.8	6.3	65.6	1.2	75.0	1.4	78.6	1.0	76.6	- .6	70.7	- .2	57.9	- .8	48.3	1.3	40.7	4.6	57.3	.7
Lnuisiana Starks Nur	24.5	-3.6	31.1	.2	42.0	-1.5	59.6	5.6	62.4	-1.3	72.6	.5	76.3	- .1	75.1	.2	70.0	2.0	54.6	-1.6	45.8	1.7	34.9	3.1	54.1	.5
Macnn	20.5	-7.0	27.8	-1.8	37.6	-4.6	56.3	3.2	62.2	-1.3	71.6	- .8	76.3	- .9	75.8	- .3	68.9	1.0	53.0	-3.3	42.8	0.0	31.9	1.8	52.0	-1.2
Marble Hill	26.7	-7.9	35.6	-1.0	45.3	-2.3	59.3	2.1	63.7	-1.9	72.4	-1.6	76.4	-1.4	76.0	-1.0	68.8	-1.9	53.5	-4.7	46.4	1.2	36.4	- .3	55.1	-1.7
Marshall	25.1	-2.8	32.2	1.3	41.8	-1.2	60.4	5.6	-		-		-		-		-		-		-		-			
Marsball AP CAA	21.8	-6.1	27.7	-3.2	38.8	-4.2	58.2	3.4	62.4	-1.8	71.6	-1.6	76.9	- .7	75.6	- .4	69.7	.9	53.5	-3.1	44.0	-1.2	34.0	2.1	53.0	-1.2
Marshfield	28.2		35.8		44.0		61.8		64.2		73.0		76.6		74.3		69.1		55.9		46.4		39.0		55.7	
Maryville	19.8	-3.1	25.7	- .1	34.0	-3.9	56.8	6.0	61.3	0.0	69.9	..1	74.9	- .8	74.2	.4	69.4	3.8	53.5	0.0	42.3	2.9	29.5	2.7	50.9	.6
Mempbis	19.4	-4.6	26.1	- .9	36.2	-2.1	54.2	3.0	60.7	- .9	70.1	-1.2	76.0	- .3	75.1	- .1	69.9	2.6	54.2	-2.5	42.4	2.8	30.3	1.6	51.2	0.0
Mexico	22.1	-5.9	29.5	- .6	39.8	-2.2	59.0	5.2	63.2	- .8	72.5	- .7	77.9M	.6	76.4	.4	70.0	1.5	54.6	-1.7	45.0	2.1	34.7	2.9	53.7	0.0
Moberly AP 4 NE	21.7	-6.3	29.4M	-3.5	39.8	-3.8	58.4	4.7	62.9	-1.1	73.1M	.2	77.5M	- .1	76.3M	.6	-		-		45.5	3.6	33.9	2.4		
Mnoett	27.4		35.3		41.8		61.6		63.2		73.2		76.5		75.6		70.1		57.5M		47.5		39.7		55.8	
Mouotain Grove 2 N	28.7	-4.1	36.4	1.3	44.6	- .8	61.7	6.8	64.0	.2	73.2	1.4	76.6	.2	75.5	0.0	69.7	.8	57.5	- .1	48.1	2.2	39.8	5.1	56.3	1.1
Mount Vernon 3 SW	28.8	-4.5	36.4	1.9	47.3	1.5	40.0	4.5	-		-		-		-		-		-		-		-			
Neosho	30.4	-4.7	38.6	1.0	46.2	-1.9	64.5	6.2	65.8	- .2	74.6	.8	78.5	1.0	76.5	- .6	70.5	0.0	57.5	-1.7	48.9	1.6	41.7	4.6	57.8	.5
Nevada	28.4	3.5	35.5	1.6	43.8	-1.1	63.7	8.0	65.8	1.3	75.4	1.9	78.4	-1.2	77.4	.3	72.0	2.5	58.8	1.2	48.3	3.5	39.7	4.4	57.3	1.6
New Floreoce AP 1 SE	20.2M		31.0		40.3		57.9		61.6		71.9		75.8		74.6		68.5		53.9		44.3		34.5		52.9	
Oregon	21.9	-2.2	27.6	-1.2	36.2	-3.4	58.4	5.7	63.4	.2	72.4	.2	77.0	1.4	75.8	.6	71.1	4.0	56.1	1.0	44.1	3.6	32.1	3.4	53.0	1.1
Ozark Beach	29.7		37.0		44.6		63.4		66.8		75.6		79.8		78.4		72.1		57.9		48.2		39.6		57.8	
Pnln	21.4		27.4		36.4		57.2		62.1		71.6M		76.4M		76.1		69.8		54.5		43.7		32.5		52.4	
Poplar Bluff	30.8	-5.2	39.8	1.7	49.6	1.0	64.0	4.5	67.4	- .1	76.0	.6	80.2	1.0	78.7	.7	72.0	.3	57.8	-2.3	50.5	2.8	42.6	4.8	59.1	.8
Rolla Schnol of Mioes	25.2	-6.7	33.2	-3.1	42.0	-3.5	59.5	3.6	62.0	-2.5	70.6	-2.4	75.8	-1.9	73.3M	-2.9	69.7M	1.0	56.8M	.3	46.6	1.6	38.7	4.1	54.5	-1.0
Saint Charles	26.8	-4.2	34.4	1.1	44.8	.3	61.6	6.0	65.1	2.0	75.6	1.7	79.3	1.2	78.2	1.4	72.7	4.4	56.5	-1.7	48.0	2.7	38.1	3.2	56.8	1.6
Saint Joseph WB Airpnrt	22.6	-2.9	28.0	-1.6	36.4	-4.1	59.8	6.3	64.2	0.0	73.3	- .4	78.4	1.0	77.6	1.1	71.6	3.1	55.1	- .9	43.9	2.4	32.3	2.7	53.6	.6
Saiot Lnuis WB Airport	25.5	-4.3	33.2	- .8	43.2	.2	59.8	5.0	64.0	-1.8	74.7	.7	78.4	.6	77.9	1.5	71.1	2.3	55.8	-1.5	47.0	3.1	37.6	4.2	55.7	.8
Saiot Louis WB City	26.6	-4.5	34.8	0.0	44.3	.2	60.1	4.0	65.3	-1.7	75.6	.6	79.2	.4	79.0	1.5	72.7	2.2	57.5	-1.3	48.5	3.1	38.8	3.9	56.9	.7
Saint Lnuis Univ	26.8	-5.2	34.8	- .1	44.2	0.0	60.2	4.5	65.2	- .5	75.2	0.0	78.7	-1.8	78.5	.7	72.3	1.4	57.2	-1.4	48.1	2.4	38.6	3.5	56.7	.3
Saint Louis Wasb Univ	25.3	-5.5	32.7	- .1	43.4	-1.2	59.8	3.5	64.0	- .9	74.4	- .4	78.0	- .8	77.3	- .9	71.7	1.3	55.4	-5.3	46.9	2.0	37.4	3.1	55.5	0.0
Salem	27.6	-5.0	35.6	- .2	44.8	-1.6	59.8	3.8	62.4	-2.1	72.0	- .4	76.7	- .1	74.3	-1.6	68.7	- .5	54.5	-3.1	45.8	- .3	37.3	1.9	55.0	- .7
Salisbury	24.0		31.2		41.4		59.6		64.0		73.2		78.0		77.3		71.1		55.7		45.7		34.6		54.7	
Savertoo Lock Dam 22	24.6	-3.7	30.6	-1.2	40.9	1.4	59.0	4.2	62.2	-1.2	72.3	- .8	76.2		75.1	- .9	69.6	.8	54.2	-4.4	44.9	1.4	34.1	1.1	53.6	
Sedalia	26.2	- .2	33.6	3.2	42.7	- .1	61.5	6.2	64.0	-1.3	73.8	- .4	78.0	.5	76.3	- .2	70.8	1.6	57.4	- .3	47.1	3.8	38.2	4.3	55.8	1.4
Seligman	29.2	-5.9	38.0	.5	43.8	-2.8	63.4	6.8	64.2	- .3	73.3	.9	76.3	- .4	74.3M	-1.9	69.5	- .1	57.4	-1.6	49.1	1.8	40.9	3.6	57.9	1.3
Seymour 4 NNE	26.4	-7.6	32.7	-2.3	40.8	-4.6	58.6	2.9	53.8M	-3.6	-		-		-		-		-		-		-			
Shelbioa	22.2		29.6		40.0		58.0		62.6M		71.5		76.5		75.5M		69.7		54.3		44.7		33.4		53.2	
Sikestnn	28.0	-9.0	36.8	- .4	47.6	-1.0	62.8	4.7	67.1	-1.4	76.8	2.5	79.4	.8	78.6	1.0	71.3	.2	56.8	-2.5	49.7	2.5	41.3	3.6	58.0	.1
Springfield WB Apt 4 NW	26.8	-5.5	34.4	.4	41.9	-1.7	60.7	5.5	63.2	- .5	72.8	1.1	76.2	0.0	74.9	- .1	69.3	.9	56.7	- .9	46.2	1.2	38.1	2.6	55.1	.2
Steffenville	22.3	-5.1	29.1	- .6	39.3	-2.9	57.7	4.6	62.0	-1.8	71.5	-1.1	76.0	-1.8	75.4	-1.1	69.9	.9	54.1	-3.3	44.5	1.0	33.2	2.6	52.9	- .7
Sweet Spriogs	25.2		32.4		41.4		60.7		63.4		72.7		77.6		76.0		70.4M		55.0		45.4		36.4		54.7	
Tarkio AP CAA	20.0	-2.9	25.8	-3.2	32.6	-7.5	56.8	4.6	61.6	-1.0	71.1	- .7	76.2	- .6	75.3	.1	69.2	2.9	52.1	-2.7	41.4	1.3	27.9	1.5	50.8	- .7
Trenton	23.6	-2.7	28.8	- .6	38.8	-2.3	59.4	6.7	63.6	.1	72.8	.6	77.1M	.3	77.0	1.8	71.4	4.2	55.9	0.0	44.8	2.6	33.0	3.4	53.9	1.2
Uoion 2 SE	25.6	-7.8	33.8	-3.6	43.8	-3.5	60.0	3.1	62.4	-2.3	72.6	-1.5	76.4	-1.8	75.2	-2.8	69.0	- .1	53.6	-5.9	46.4	.3	36.9	1.4	54.6	-2.1
Unionville	17.6	-5.9	25.6M	-1.1	34.5	-4.4	54.2	3.2	60.4	-1.7	69.2	-2.1	75.2	-1.3	74.8	0.0	68.5	1.4	52.1	-3.1	41.5	1.2	29.4	1.8	50.3	- .9
Vaodalia	23.8		30.2		41.8		58.4		61.0		71.8		75.4		-		69.3		53.8		45.1		35.0			
Vichy AP CAA 2 NW	24.6		32.6		41.8		60.0		62.8		72.8		76.8		75.6		70.0		55.8		46.0		37.2		54.7	
Wappapello Dam	28.2	-5.8	36.8	- .5	47.6	.1	62.9	3.6	66.4	0.0	75.4	- .7	79.0	- .9	78.6	- .3	71.8	.1	57.4	-4.0	49.9	1.9	41.0	3.5	57.9	0.0
Warrensburg Central T C	27.0	-1.7	33.8	1.3	42.8	-1.2	62.2	6.1	65.9	.9	74.8M	.9	78.5	- .3	77.8	.7	72.0	1.8	58.4	.4	47.3	2.3	37.8	4.4	56.6	1.4
Warrentnn	25.2	-4.0	33.2	2.3	43.0	.5	60.0	5.2	62.0	-2.9	72.8	- .6	76.4	-1.4	74.8	-1.7	69.3	.3	54.7	-1.3	46.0	2.8	36.5	4.1	54.5	.3
Warsaw No 1	27.8	-5.1	35.1	- .5	44.2	-2.8	63.0	6.3	64.9	- .6	74.7	.9	78.3	0.0	77.5	- .1	73.1	2.6	57.6	-1.4	48.5	1.3	39.5	3.8	57.0	.4

See reference notes fnllnwing Statino Index.

Table 1—Continued

AVERAGE TEMPERATURES AND DEPARTURES FROM NORMAL

Station	January Temp	January Departure	February Temp	February Departure	March Temp	March Departure	April Temp	April Departure	May Temp	May Departure	June Temp	June Departure	July Temp	July Departure	August Temp	August Departure	September Temp	September Departure	October Temp	October Departure	November Temp	November Departure	December Temp	December Departure	Annual Temp	Annual Departure
Wasola	29.3		37.8		45.9		64.4		65.4		73.6		77.4		76.4		70.8		57.9		49.3		40.0		57.4	
Webster Groves	26.4		34.6		44.4		60.2		64.0		74.7		77.6		76.3		70.2		54.1		46.5		37.2		55.5	
Weingarten	25.9		34.8		44.4		60.0		62.4		73.0		76.9		76.3		70.9		56.9		48.7		40.0		55.9	
West Plains	27.4	-6.6	36.3	-2.3	43.9	-3.2	60.9	3.9	63.0	-1.6	73.0	- .4	77.1	- .6	75.4	-1.6	69.2	.2	55.8	-3.1	46.7	1.4	37.7	1.2	55.6	-1.0
Willow Springs	28.5		36.2		45.0		62.0		64.0		72.5		75.8		73.9		68.8		55.0		47.6		39.3		55.7	

Table 2

TOTAL PRECIPITATION AND DEPARTURES FROM NORMAL

Station	January Precip	January Departure	February Precip	February Departure	March Precip	March Departure	April Precip	April Departure	May Precip	May Departure	June Precip	June Departure	July Precip	July Departure	August Precip	August Departure	September Precip	September Departure	October Precip	October Departure	November Precip	November Departure	December Precip	December Departure	Annual Precip	Annual Departure
Advance AP	.88	-2.81	2.80	- .96	5.32	.38	3.13	-2.04	3.56	- .71	6.95	2.65	3.51	.15	.27	-3.54	4.86	2.22	2.39	- .22	5.46	2.18	5.08	2.18	44.21	- .52
Albany	1.22	.39	1.13	- .49	29.4	1.25	2.97	.18	3.00	.32	4.05	-1.19	1.82	-2.81	2.29	-1.31	2.49	-3.06	2.15	- .64	.70	-1.01	1.18	.31	25.94	- 8.06
Alton 10 SE																										
Alton 6 ENE	1.28		3.55		4.12		3.32		4.35		8.40		1.33		4.24		-		-		5.70		5.32			
Altona	.97	- .86	1.74	.32	4.41	1.83	1.09	-3.79	3.14	-2.24	9.68	3.76	11.95	9.67	3.78	-3.54	1.70	-2.39	2.08	- .61	2.47	.20	.80	- .84	48.81	1.51
Amity	1.50	- .05	1.36	- .16	2.89	.62	1.76	-2.34	4.44	- .81	7.91	.91	4.39	1.76	2.51	-1.69	2.41	- .33	2.40	.27	1.11	-1.57	1.29	- .75	33.97	- 4.14
Amsterdam	0.17		1.16		4.02		1.63		3.27		7.44		9.92		1.17		1.48		2.34		1.77		0.83		35.20	
Anderson 2 SW	2.10	- .43	3.23	1.45	5.28	1.58	2.13	-2.56	6.05	.30	11.49	5.56	8.47	4.06	6.36	2.24	.15	-3.73	.88	-3.01	3.28	- .07	2.43	.08	51.85	5.47
Annapolis	5.73		2.71		4.91		3.41		4.45		6.16		4.99		.91		1.46		2.15		5.93		3.79		46.60	
Appleton City	1.01	- .83	1.45	- .22	3.57	.42	1.06	-3.07	2.79	-2.01	8.21	3.19	8.10	3.79	1.93	-2.03	1.22	-3.16	2.22	- .74	3.09	.79	.92	- .67	35.57	- 4.54
Arcadia	5.26	2.27	2.37	- .11	6.66	2.61	1.78	-3.04	5.29	1.05	5.31	1.17	5.74	1.62	1.47	-2.90	2.11	-1.87	2.34	-1.11	6.58	3.46	3.10	.25	48.01	3.40
Ashton	-		1.42		3.80		1.54		1.50		3.69		7.03		1.33		2.51		1.90		2.20		1.81			
Auxvasse	1.86		1.69		4.67		1.10		3.46		6.64		11.06		3.90		1.90		3.46		3.46		1.66		44.86	
Ava Ranger Station																										
Bedford 1 S	-		1.61		4.08		1.31		3.46		6.56		3.26		0.83		2.77		1.51		2.39		1.41			
Belleview	4.62	2.32	2.35	- .48	5.44	1.65	1.55	-3.47	5.01	- .10	4.49	- .11	4.09	.76	.83	-1.94	1.37	-2.67	3.08	- .42	5.03	1.60	2.01	- .80	39.87	- 3.66
Bernie	4.29		3.70		7.15		2.85		3.64		4.43		2.55		.50		4.58		2.20		7.11		6.80		49.80	
Bethany	1.38	.19	.36	-1.06	1.96	- .27	3.01	- .28	3.75	- .42	5.89	.83	1.58	-2.58	2.73	-1.09	2.23	-2.33	2.74	- .18	-		1.16	.01		
Birch Tree	4.26	1.08	2.49	- .01	3.40	- .58	3.69	-1.07	4.60	.25	6.27	-1.86	4.48	.90	3.47	-1.29	2.28	-1.40	2.04	-1.24	6.95	3.79	4.27	1.52	48.20	.09
Black 9 NW	4.84	2.14	2.60	.32	5.46	1.57	-		4.02	- .49	5.71	1.65	3.26	- .43	.63	-3.61	.00		-		-		-			
Bloomfield	3.93		3.19		5.13		3.23		2.88		5.13		4.96		.55		5.08		1.65		7.09		4.41		47.23	
Blue Lick	-		-		-		-		-		-		2.31		-		-		1.94		4.05		-			
Bolivar	.46	-1.47	1.89	- .21	4.58	1.15	1.22	-2.95	3.85	-1.50	13.09	7.78	4.09	.37	1.88	-1.98	2.66	-1.55	2.97	- .28	3.53	.95	1.51	- .83	41.73	- .52
Boonville	1.86		1.66		2.66		.43		3.97		6.24		6.21		3.00		2.16		2.57		4.95		1.06		36.77	
Boonville Waterworks	2.00	.28	1.53	- .25	2.94	- .10	.45	-3.42	3.79	- .82	6.27	1.22	6.24	3.00	2.84	-1.71	2.20	-2.99	2.59	- .63	4.58	2.37	1.05	- .65	36.48	- 3.70
Bowling Green	1.69	- .21	1.21	- .23	3.63	1.49	1.35	-1.19	2.12	-1.72	4.58	1.34	5.92	3.14	1.66	-2.15	1.47	-1.24	2.88	.63	2.77	- .07	1.29	- .76	38.57	- .97
Bradleyville	3.27		3.89		5.16		1.24		3.56		10.54		4.40		1.60		1.51		2.05		4.47		2.48		44.17	
Brookfield	1.47		1.50		6.11		.84		4.37		6.05		4.13		.89		2.71		1.26		2.26		1.79		33.38	
Browning 3 NE	1.80		1.89		4.50		1.46		3.12		4.75		4.71		2.62		2.85		1.13		2.16		2.23		33.22	
Brunswick	1.77	.18	1.41	- .40	5.14	2.44	1.40	-2.43	4.83	.22	4.85	- .26	5.80	1.69	2.31	-1.63	2.73	-2.08	1.34	-1.66	3.53	1.34	1.17	- .50	36.28	- 3.09
Buffalo	1.66	- .45	1.99	.23	5.36	2.45	1.01	-2.66	3.81	-1.39	15.60	10.58	3.76	.80	2.12	-2.00	.65	-2.70	2.63	- .19	5.43	2.03	1.40	- .67	45.42	6.03
Bunker	4.63		2.77		6.23		2.34		3.50		6.00		2.65		.41		2.93		2.18		4.13		3.89		41.66	
Burlington Junction	-		-		-		-		-		-		-		-		2.19		4.36		1.34		2.56			
Butler	.79		1.66		4.50		1.62		2.31		8.85		9.53		1.76		2.37		2.06		2.27		1.02		38.74	
Camdenton	3.44		2.26		4.38		1.05		2.66		14.77		8.34		1.31		.78		3.58		5.41		1.16		49.14	
Campbell	2.52	-2.78	3.44	.11	7.90	1.98	-		2.63	-2.38	5.32	1.08	2.01	-1.47	1.72	-4.26	3.52	- .35	1.36	-1.74	7.06	3.36	6.07	2.12		
Canton Lock Dam 20	1.64	- .30	1.90	.64	5.00	2.66	2.44	- .32	2.24	-3.08	1.60	-3.18	7.54	5.21	2.29	- .87	2.36	-1.38	1.83	- .43	1.39	-1.32	1.58	- .05	31.81	- 2.42
Cap Au Gris L & D 25	0.97		1.57		5.89		1.42		2.05		5.51		7.38		2.31		2.73		3.41		2.89		1.59		37.72	
Cape Girardeau Mo S	3.18	- .80	3.22	.82	5.08	1.24	3.54	- .34	5.36	1.29	5.42	1.12	2.00	-1.42	.85	-3.05	3.37	- .64	2.68	- .62	8.18	4.60	5.36	1.69	48.24	3.89
Cape Girardeau	3.97	- .01	3.17	.77	4.99	1.15	3.10	- .78	5.04	.97	4.94	.64	1.70	-1.72	.80	-3.10	3.67	- .34	2.67	- .63	8.11	4.53	4.90	1.23	47.06	2.71
Caplinger Mills	1.40	- .52	1.32	.01	4.66	1.93	.75	-2.84	3.83	-1.04	10.35	4.19	7.07	3.31	2.03	-2.52	3.09	- .63	3.99	.11	2.37	- .39	1.03	- .67	41.89	.94
Carrollton	1.43		1.38		5.63		.65		3.78		6.57		7.69		1.12		3.55		2.02		3.01		1.61		38.42	
Carthage	1.16		2.01		6.07		1.69		4.54		11.58		11.06		3.09		.99		2.34		2.73		2.42		49.68	
Caruthersville	3.91	-1.28	3.69	.31	6.58	2.12	2.35	-2.17	2.07	-2.37	3.91	.10	3.71	.42	1.38	-2.31	4.45	1.24	3.86	.50	5.45	1.60	6.47	1.93	47.83	.09
Cassville Ranger Sta																										
Centerville	4.43		2.84		4.83		1.85		3.99		7.51		2.59		1.32		2.49		2.69		4.70		3.20		42.44	
Centerville Ranger Sta	4.23	1.58	2.98	- .22	4.52	.78	1.73	-3.49	4.35	- .01	7.50	2.31	2.72	.42	1.86	- .59	2.01	-1.62	2.54	-1.16	4.54	1.10	2.54	- .23	41.52	- 1.13
Centralia	2.38	.92	1.94	.45	3.19	.32	.82	-3.58	2.27	-2.97	4.07	-1.94	6.64	3.89	1.89	-2.42	1.94	-1.72	2.17	- .97	3.30	.68	1.43	- .62	32.04	- 7.96
Chadwick	4.10		3.43		8.24		2.17		4.66		13.26		6.52		5.10		1.08		2.51		2.98		2.59		56.64	
Chillicothe 2 S	1.43		2.11		3.75		.67		3.51		6.39		3.48		2.36		2.90		.86		2.12		2.11		31.69	
Chillicothe AP CAA	1.30	- .18	1.49	.04	3.82	1.34	.78	-2.44	2.86	-1.23	6.11	1.38	2.59	- .83	2.42	-1.54	2.56	-2.22	.92	-2.22	2.06	- .06	1.55	.13	28.46	- 7.83
Clarksville L & D 24	0.99		2.03		5.38		1.02		2.46		5.91		5.78		2.90		1.45		2.71		2.69		1.57		34.89	
Clearwater Dam Site	4.51		2.53		4.00		3.30		3.49		8.34		1.20		.67		1.80		2.04		4.95		3.37		48.20	
Clifton City	-		-		-		-		-		-		8.17		.74		1.55		2.64		6.13		.59			
Clinton	.35	-1.68	1.28	- .67	3.53	.17	.95	-3.22	4.19	- .64	11.88	6.98	8.72	5.29	1.87	-1.78	1.66	-2.86	2.29	-1.16	3.15	.99	.87	-1.00	48.74	.42
Columbia WB Airport	.94		2.86		2.99		.61		4.42		6.75		6.28		4.21		2.50		2.78		4.18		1.28		39.80	
Columbia WB City	1.15	- .77	2.04	- .05	3.72	.78	.82	-2.95	3.71	- .75	6.71	1.95	6.35	2.86	4.60	1.00	2.52	-1.83	3.23	.62	4.21	2.01	1.46	- .40	48.52	2.47
Columbia Univ of 9NW	1.04		1.62		3.06		.63		4.26		6.52		4.41		3.51		1.82		2.92		4.91		1.19		35.89	
Conception	1.17	.38	1.12	- .03	2.79	1.14	2.82	.09	2.40	-1.66	5.33	.38	3.48	-1.19	2.19	-1.45	2.23	-2.41	1.87	-1.01	.79	- .95	1.37	.49	27.56	- 6.22
Concordia	.89	- .65	1.87	.39	6.14	3.59	.63	-2.71	4.46	- .29	17.29	11.81	5.86	1.87	2.53	-1.32	1.93	-2.57	2.09	-1.71	2.85	.63	1.41	- .36	47.95	8.68
Cook Station	3.71		2.17		4.98		1.57		4.40		10.01		5.14		1.50		1.07		3.86		2.87		1.72		43.00	
Crane Mountain	4.89		3.28		5.02		2.02		4.13		6.40		4.07		1.91		1.97		1.93		4.24		3.50		43.36	
Crocker	1.46	-1.22	1.70	- .19	5.82	3.59	1.36	-2.44	4.31	.51	14.25	11.30	4.54	.46	1.86	-1.87	.52	-3.55	3.57	1.23	6.26	4.13	1.44	- .72	47.09	11.23
Crystal City	1.79	- .50	1.78	- .09	4.43	1.75	1.07	-2.57	3.12	-1.04	4.44	- .98	6.55	3.34	.92	-1.51	1.24	-2.14	2.97	.20	3.18	- .24	1.94	- .60	33.43	- 4.38
Cuba	2.26	.01	1.69	- .84	4.58	1.15	1.89	-3.06	4.96	.37	9.02	4.00	-		-		-		-		-		-			
Deering	3.20		5.42		6.98		3.37		1.63		4.78		6.92		1.86		4.30		2.54		5.34		7.31		53.65	
De Soto	1.85		2.27		4.37		.81		3.45		3.77		7.15		2.61		1.13		3.22		3.61		1.83		36.07	
Dexter	3.93	-1.11	3.59	.51	5.79	.91	2.96	-1.63	3.22	-1.57	5.40	.99	3.29	.17	.69	-3.43	5.16	.64	1.75	-2.51	7.67	3.75	3.80	- .19	47.25	- 3.47
Doniphan	2.48	-1.62	3.64	.33	5.27	.88	4.85	- .08	2.60	-1.76	8.44	4.08	1.50	-2.54	4.42	.18	2.26	-1.35	2.13	- .93	7.96	4.54	5.67	1.95	51.22	3.68
Doniphan 2 W	4.19		3.86		5.28		4.29		3.24		8.17		1.01		5.14		2.57		2.09		6.00		5.75		51.59	
Dora	1.05		3.44		-		2.56		3.25		8.21		3.28		3.11		1.62		1.71		4.61		3.98			
Downing	-		1.94		3.38		2.30		2.02		2.43		2.66		1.60		3.51		1.04		1.72		1.59			
East End	4.43		2.17		6.70		1.44		5.16		5.69		5.38		1.25		1.70		3.69		2.89		2.80		43.30	
Edgerton	1.73	.88	.91	- .43	2.96	.70	1.69	-1.39	1.95	-2.25	7.74	2.87	3.75	.25	3.06	- .98	2.34	-2.25	1.04	-1.58	1.60	- .37	1.01	- .11	29.78	- 4.66
Edina	1.75	.09	1.60	.47	4.45	2.46	2.66	- .47	2.03	-1.82	5.81	.37	4.11	1.64	2.11	-1.99	2.47	-2.15	1.74	- .52	2.65	- .42	1.52	.18	32.90	- 2.16
Eldon	1.09	- .67	1.54	- .28	4.39	1.35	1.05	-3.11	3.50	- .80	12.70	8.66	5.62	2.40	.91	-2.75	1.26	-3.36	2.41	-1.29	5.88	3.23	1.57	- .19	41.72	3.19
Eldorado Springs	.36	-1.86	1.33	-1.15	3.72	.79	2.16	-2.07	3.40	-1.75	9.88	4.92	9.67	5.35	1.16	-1.95	3.48	.07	4.13	1.57	2.75	.36	1.16	-1.03	43.20	3.25
Elijah			3.55		3.71		2.70		2.80		6.00		3.33		1.43		.63		3.60		3.52		5.28			
Ellington	5.23		2.90		4.54		3.47		4.82		9.05		2.43		.47		2.04		1.91		6.20		3.41		46.47	
Ellsinore	1.98		3.90		4.29		3.45		2.44		7.56		1.88		.36		2.94		1.48		4.96		4.54		39.78	
Elsberry	1.89	- .28	1.61	- .05	5.57	2.81	.82	-2.23	3.45	.13	4.68	1.24	9.24	7.25	1.49	-1.77	2.09	- .91	3.60	1.09	3.22	.40	1.87	- .34	39.53	7.34
Eminence	0.72		2.35		3.90		2.65		-		7.07		3.88		0.73		1.63		1.88		5.27		3.19			
Fairfax	-		-		-		-		-		-		-		.00		1.74		3.15		2.85		1.15			
Farmington	4.76	1.62	2.41	- .11	5.95	2.03	1.68	-2.84	6.85	1.78	5.34	1.46	4.33	.77	1.77	-2.53	1.08	-2.72	2.75	- .69	5.99	3.17	1.76	-1.04	44.67	.90
Fayette	1.20	- .59	1.70	.00	3.24	.42	.80	-2.75	3.38	- .94	3.58	- .99	4.38	1.13	4.80	1.24	2.44	-2.52	2.25	- .64	5.17	3.07	1.08	- .58	34.02	- 3.15
Fisk	3.35	-1.66	3.75	.49	5.19	.37	3.69	- .01	2.65	- .85	5.91	2.05	1.54	-1.84	.96	-2.29	4.11	- .13	1.88	-1.08	7.20	4.54	4.60	1.13	44.83	.72
Forsyth	2.86		3.33		5.33		.80		4.08		10.09		4.25		2.60		.90		2.55		2.83		2.80		42.42	
Fredericktown	5.24	1.53	3.25	.62	4.75	1.10	2.01	-2.47	5.56	1.47	4.88	.65	5.66	2.44	.51	-3.75	1.41	-2.55	2.08	-2.31	4.09	.77	2.29	- .88	41.73	- 3.38
Fremont Tower	4.27		2.36		3.60		2.59		3.91		7.03															
Fulton 4 SW	1.81	- .21	1.53	- .14	4.51	1.55	.85	-3.16	2.77	-1.83	8.73	4.33	6.48	3.19	3.57	- .08	1.80	-2.69	3.08	- .34	3.92	1.61	1.74	- .27	48.79	1.96

See reference notes following Station Index.

TOTAL PRECIPITATION AND DEPARTURES FROM NORMAL

Station	January		February		March		April		May		June		July		August		September		October		November		December		Annual	
	Precip	Departure	Precip	Departure	Precip	Departure	Precip	Departure	Precip	Departure	Precip	Departure	Precip	Departure	Precip	Departure	Precip	Departure	Precip	Departure	Precip	Departure	Precip	Departure	Precip	Departure
Galena	2.62	- .05	3.89	1.95	7.39	4.05	1.65	-2.47	3.16	-1.98	7.98	3.22	5.51	1.75	2.59	-1.51	1.40	-2.08	1.87	-1.61	2.77	- .53	3.24	1.07	44.07	1.81
Gallatin	-		-		3.25	.93	.99	-2.57	2.98	-1.74	5.59	.53	2.05	-2.07	2.55	-1.25	1.94	-3.26	1.56	-1.62	.82	-1.26	1.49	.21		
Gerald	1.73		1.38		6.49		2.06		2.51		6.52		10.46		2.27		.85		3.73		2.46		1.59		42.05	
Granby	2.85		2.16		2.94		1.11		6.10		9.49		8.40		3.50		1.08		1.55		1.76		2.11		43.05	
Grant City	.60	- .37	.88	- .23	2.30	.29	3.89	.93	1.54	-2.69	3.29	-1.71	1.97	-2.66	3.75	- .19	2.12	-2.57	1.87	-1.17	.89	- .96	.76	- .30	23.86	-11.63
Greenville 1 SW	4.38	1.06	3.20	.48	4.49	.23	2.25	-2.45	3.41	- .77	8.26	3.57	3.51	- .25	.78	-3.50	2.38	- .94	1.91	-1.37	5.64	2 28	4.79	1.43	45.00	- .23
Hailey	.29	-2.63	3.51	1.71	5.89	2.41	1.38	-3.01	-		-		-		-		.09	-3.68	1.48	-2.82	2.58	- .53	2.49	.17		
Hamden	-		1.96		6.30		1.21		2.16		3.27		6.08		0.93		2.39		1.74		4.24		2.15			
Hannibal	1.12		1.46		4.88		1.96		3.91		4.51		5.29		3.44		1.38		2.62		2.32		.99		33.88	
Hannibal Waterworks	1.38	- .34	2.12	.22	4.32	1.72	2.28	- .91	3.91	- .44	5.01	1.11	5.94	2.85	3.98	.64	1.69	-2.28	2.56	.17	2.20	.14	1.34	- .20	36.73	2.68
Harris	-		2.16		3.90		1.88		2.77		4.95		2.24		1.93		2.67		1.10		1.12		1.70			
Harrisonville	1.17	- .40	.99	- .74	4.75	1.95	1.08	-2.30	3.66	- .77	10.84	6.05	11.96	8.35	1.83	-2.35	1.53	-3.37	2.96	- .01	1.64	- .50	1.01	- .44	43.42	5.47
Hermann	2.96	1.03	1.53	- .12	4.70	1.87	1.28	-2.75	1.76	-2.41	7.57	3.20	4.48	1.14	1.73	-1.94	2.65	-1.73	3.05	- .58	2.52	.05	.89	- .92	35.12	- 3.16
High Lookout	2.31		2.65		3.76		2.63		4.43		8.14		2.90		3.00		2.44		2.10		6.58		4.03		44.97	
High Point 2 NE															-		-		-		6.73		-			
Hornersville	1.37		5.45		7.23		2.69		2.67		2.48		4.18		0.86		3.72		3.10		5.03		-			
Houston 1 W	-		2.49		5.31		2.46		4.14		8.23		4.18		1.81		1.37		3.04		4.31		2.15			
Jackson	2.34	-1.60	3.49	.61	5.70	1.53	4.07	- .27	5.60	1.33	5.76	1.07	2.38	-1.16	2.32	-1.76	2.66	-1.36	2.64	- .88	6.25	2.87	4.63	1.20	47.84	1.58
Jeff City Radio KWOS	1.35	- .63	1.23	- .53	4.16	1.10	1.11	-2.87	3.54	- .87	9.92	5.69	5.32	2.21	2.42	-1.41	2.04	-2.19	2.83	- .54	5.80	3.41	1.69	- .25	41.41	3.12
Jefferson City	2.02		1.51		4.02		1.25		3.14		8.93		4.58		2.44		1.79		2.63		5.59		1.59		39.49	
Jerome	1.95	- .03	1.75	- .57	5.54	2.69	1.54	-2.29	3.66	- .65	8.51	4.76	2.98	- .32	3.32	- .96	.60	-2.99	2.36	.34	2.84	.37	1.55	- .28	36.60	.07
Jewett	1.62		2.96		4.50		3.37		3.49		6.72		2.55		1.14		1.97		2.01		4.60		3.34		38.27	
Joplin AP CAA	.25	-1.91	1.80	.12	5.37	2.17	2.13	-2.57	2.52	-2.84	13.53	7.53	7.82	3.20	1.58	-2.39	.98	-2.94	1.17	-2.28	1.75	-1.02	1.20	- .69	48.10	- 3.62
Kahoka	1.26	- .62	1.93	.86	4.57	2.46	2.11	-1.15	2.23	-2.03	4.59	- .32	7.21	5.33	2.13	-1.15	3.58	- .96	2.31	- .14	2.85	- .50	1.31	- .38	36.08	1.40
Kansas City WB Airpt	.53	- .71	.94	- .55	4.84	2.53	.80	-2.72	1.72	-2.22	5.45	.77	7.29	3.47	2.71	- .83	1.88	-1.94	1.89	- .80	1.69	- .53	1.21	.01	30.95	- 3.52
K.C. St.John & Elwd	-		-		-		.55		1.47		5.95		8.30		1.42		1.83		1.45		1.39		.00			
K.C. 75th & Holmes	-		-		4.61		.93		1.62		6.30		8.91		2.83		2.10		-		-		1.40			
K.C. 37th & Rayto Rd	-		-		-		.70		1.25		5.33		9.43		2.36		2.04		1.73		1.36		-			
K.C. Univ of K. C.	.70	- .84	.78	- .43	5.07	2.26	.93	-4.36	1.68	-2.87	6.05	- .36	8.35	5.79	2.36	-2.13	2.21	-1.59	1.73	-1.21	1.98	.10	1.47	- .49	33.31	- 6.13
Keytesville 4 NE																					1.14		1.30			
Kidder	1.30	.08	1.54	.00	3.15	.96	.87	-2.41	3.37	-1.28	9.70	4.73	2.15	-1.73	2.13	-1.83	2.13	-3.07	1.43	-1.64	.97	-1.18	1.02	- .25	29.76	- 7.62
King City	1.10	- .04	1.59	.09	2.80	.74	2.28	-1.02	3.02	-1.19	7.49	2.18	3.44	-1.00	-		2.71	-2.71	3.09	.19	.93	-1.03	1.13	.05		
Kirksville	1.13	- .39	1.92	.39	4.28	1.34	2.43	-1.67	2.48	-2.85	5.06	.00	5.74	1.44	.88	-3.24	2.20	-2.98	1.26	-1.90	3.07	.95	1.37	- .39	31.82	- 9.30
Kirksville AP CAA	.84		1.94		4.30		2.00		2.66		7.06		4.77		1.35		2.01		1.46		2.76		1.55		32.70	
Koshkonong	4.16	.54	4.03	1.17	4.52	.42	3.21	-1.81	3.90	- .65	9.73	5.23	2.12	-1.65	1.25	-2.91	1.53	-2.11	1.40	-1.82	5.99	2.73	5.30	1.82	47.14	.96
La Belle	1.75	.08	1.94	.67	4.93	2.61	2.68	- .23	1.97	-2.47	2.81	-2.43	9.50	7.37	2.51	-2.11	3.15	- .92	2.05	- .23	2.92	- .18	1.32	- .22	37.53	1.94
Lakeside	2.46	- .28	1.55	- .27	3.89	1.14	.82	-2.16	3.09	-1.18	12.31	7.70	3.65	1.50	1.62	-1.55	.91	-3.49	3.26	.45	6.16	2.45	1.79	- .51	41.51	3.80
Lamar	1.28	- .55	1.07	- .70	4.15	.96	1.20	-3.32	3.79	-1.47	14.66	9.12	9.85	5.63	2.69	-1.60	2.53	-2.02	2.08	-1.53	2.17	- .36	.71	-1.17	46.18	2.99
Lampe Forest Service	3.33		2.89		6.18		1.32		3.91		6.45		4.95		4.05		.27		2.13		2.52		2.84		48.84	
Lampe 4 NNE	.72		3.46		6.27		1.54		-		7.83		5.63		-		.46		-		-		-			
Lathrop 3 SW	1.67		1.49		3.92		1.60		4.28		8.43		4.20		1.68		2.21		1.64		1.64		1.91		34.67	
Lebanon	1.39	-1.25	1.90	- .29	4.86	1.38	1.06	-3.29	5.11	- .10	11.23	6.06	3.66	- .30	.69	-3.80	.86	-3.63	3.42	- .35	3.66	1.02	1.96	- .32	39.80	- 4.87
Lecoma 3 N	-		-		5.06		2.06		2.54		6.94		3.64		1.76		-		4.22		3.35		1.64			
Leeper	4.81	.91	2.97	.32	3.78	.14	3.33	-1.59	3.08	-1.32	7.15	1.71	3.89	.57	.23	-3.88	3.35	.12	1.77	-2.14	5.17	1.79	4.16	.38	43.69	- 2.99
Lexington	1.17	- .35	1.73	- .11	6.45	3.67	.82	-2.98	3.11	-1.85	9.32	4.77	7.57	3.56	1.44	-2.08	3.02	-1.75	1.52	-1.51	2.43	.31	1.05	- .54	39.63	1.14
Licking 4 N	3.91	1.94	1.81	- .60	4.88	1.75	1.06	-3.62	4.29	- .84	9.67	5.11	4.92	2.35	1.25	-1.09	2.26	-2.28	3.58	.27	3.53	.89	2.72	.34	43.88	4.22
Linneus 2 S	1.12	- .85	1.87	.70	4.51	2.57	1.05	-2.05	3.96	- .14	6.89	2.17	2.59	- .27	.85	-3.11	2.42	-1.31	1.28	-1.37	2.18	- .39	1.44	.06	38.16	- 3.99
Livonia	-		1.69		3.50		2.78		2.89		3.42		1.73		2.29		3.53		.91		2.03		1.77			
Lockwood	.92	- .94	2.02	.29	4.27	.71	1.57	-2.96	4.21	-1.11	11.55	5.87	5.66	.90	2.45	-2.25	1.68	-3.10	1.19	-2.71	3.45	.61	1.69	- .45	48.66	- 5.14
Louisiana Starks Nur	1.46	- .69	1.70	- .38	4.61	1.14	1.25	-2.47	1.99	-2.71	4.47	.24	8.61	5.01	1.53	-3.01	1.39	-3.04	2.47	- .81	2.96	.50	1.93	.03	34.37	- 6.19
Louisiana	1.49		1.27		4.29		1.26		2.02		4.39		8.95		1.49		1.36		2.52		2.45		1.19		32.68	
Lucerne	1.03	.01	2.08	.88	4.28	2.23	2.02	-1.54	3.42	-1.31	3.81	-1.83	1.59	-1.47	2.54	-1.90	1.11	-2.42	1.78	- .50	1.67	.06				
Macedonia Lookout	4.09		3.39		4.78		4.42		2.72		9.32		1.47		1.81		2.05		2.53		8.26		5.89		58.73	
Macon	1.60	- .10	1.29	- .41	5.99	3.15	1.96	-1.70	2.51	-2.08	3.80	- .92	4.79	1.38	3.10	- .71	2.13	-2.31	2.14	- .75	3.93	1.74	1.95	.31	35.19	- 2.40
Madison	1.80	- .14	2.58	.98	3.36	1.26	1.15	-1.75	3.00	-1.54	3.95	-1.42	3.51	.54	2.56	- .75	4.74	1.01	2.95	.07		.57	+1.33			
Malden	1.13		3.47		7.58		2.89		2.96		5.14		3.04		3.13		3.45		1.90		-		-			
Mansfield	2.98		2.82		6.76		2.05		4.00		10.22		4.56		3.58		1.72		2.78		3.63		3.04		48.14	
Marble Hill	2.13	-1.74	2.72	- .36	4.65	.37	3.47	-1.02	6.09	1.60	7.32	2.84	2.76	-1.26	.86	-3.26	4.08	.20	2.64	- .78	4.19	.64	2.44	-1.23	43.35	- 4.00
Marshall	1.18	- .47	1.09	- .69	5.51	2.59	.39	-3.50																		
Marshall AP CAA	.61	-1.04	.99	- .79	4.56	1.64	1.21	-2.68	3.97	- .64	5.70	.90	5.14	-1.57	2.66	-1.24	2.67	-2.83	1.83	-1.30	3.41	1.09	1.10	- .65	33.85	- 9.11
Marshfield	.96		1.93		4.54		1.78		4.76		8.57		5.61		2.30		2.01		3.18		4.00		1.86		41.50	
Martinsburg	2.08		1.74		4.47		1.55		2.47		5.56		6.76		2.73		1.62		3.13		3.07		1.57		36.75	
Maryville	1.39	.39	1.36	- .07	3.35	1.48	3.55	.54	2.68	-1.97	4.87	- .24	3.81	-1.42	2.13	-1.85	3.12	-1.56	3.56	.59	1.24	- .68	1.49	.41	32.55	- 4.38
Maryville NNW 6	-		-		-		-		-		4.58		4.58		4.07		2.15		3.40		1.07		1.07			
Mc Credie 2 W	-		1.74		4.88		1.13		4.02		7.65		6.95		2.47		2.24		4.07		3.93		1.82			
Mc Credie Exp Sta.	1.22		1.34		4.41		.95		3.53		6.86		6.24		4.34		2.00		3.65		3.22		1.22		38.98	
Memphis	1.36	- .17	1.77	.80	3.31	.95	1.89	-1.31	2.23	-1.78	3.39	-1.74	4.44	1.64	1.15	-2,82	3.12	-1.06	1.23	- .70	2.95	- .04	1.93	.65	28.77	- 5.58
Mercer 6 NW	-		-		-		-		-		-		-		4.17		-		1.11		1.23		1.37			
Mexico	1.52	- .51	1.75	- .10	3.95	1.04	1.44	-2.31	2.78	-1.82	4.63	- .11	4.96	1.75	1.63	-2.22	1.62	-3.35	3.08	.01	3.60	1.37	1.58	- .33	32.54	- 6.58
Middletown	-		2.02		3.20		.80		2.22		5.60		7.99		2.06		2.85		2.96		-		1.51			
Milan	1.44	.27	1.50	.12	4.01	1.76	1.88	-2.09	3.06	-1.76	3.78	-1.32	1.79	-1.29	2.78	-1.46	2.36	-3.18	1.10	-2.87	1.87	- .31	1.83	.02	27.40	-12.11
Moberly AP 4 NE	1.89	.13	2.52	1.00	5.84	3.16	1.60	-2.43	1.25	-2.72	3.52	-1.44	4.00	1.40	3.16	- .65							1.10	- .89		
Monett	2.17		2.63		4.68		1.33		6.28		9.82		4.52		3.29		1.22		2.41		3.09		2.29		43.73	
Monroe City	1.88	- .03	2.35	.94	4.03	1.14	2.50	-1.17	3.39	-1.01	6.12	1.04	8.61	4.95	2.91	-1.41	2.30	-2.52	2.13	- .47	2.09	- .23	1.21	- .72	39.52	.51
Mora	-		1.05		3.41		.69		5.14		15.70		6.07		2.73		2.14		2.34		4.05		.97			
Morehouse	3.53	-1.38	3.21	- .53	7.04	2.13	2.40	-2.45	2.42	-1.86	4.48	.25	3.85	.84	2.10	-1.81	5.31	1.39	1.47	-2.06	8.04	4.41	4.47	.25	48.32	- .82
Moselle	2.68		1.33		5.75		2.23		2.32		5.36		7.60		1.67		1.34		3.14		-		-			
Mountain Grove 2 N	3.52	.79	2.48	.25	4.34	.47	.83	-3.69	3.34	-1.12	8.37	3.43	2.40	-1.49	2.10	-2.24	1.67	-2.39	2.68	- .78	2.75	- .20	2.43	.02	36.91	- 6.95
Mount Vernon 3 SW	3.84	1.13	2.52	- .08	4.		-		-		-		-		-		-		-		4.86	1.92	1.78	- .76		
Nashville	-		2.07		-		-																			
Neosho	.71	-1.76	2.48	.49	4.55	1.00	1.59	-2.97	4.51	-1.05	11.68	5.71	8.89	4.24	4.18	- .19	1.38	-2.91	.76	-2.93	3.15	- .15	1.98	- .30	45.86	- .82
Nevada	.63	-1.20	1.64	- .11	3.94	1.07	2.23	-2.06	3.26	-1.67	9.42	3.97	8.70	5.04	.97	-2.80	2.87	-1.44	3.88	.81	1.95	- .20	.89	- .86	48.38	.55
New Boston																							1.50			
New Florence AP 1 SE	.88		1.47		4.77		1.04		2.33		6.17		7.92		1.72		2.48		3.47		2.83		1.32		36.40	
New Madrid	4.61	- .88	4.71	.96	8.39	3.56	1.74	-2.84	3.46	- .97	4.65	.15	2.74	-1.23	.84	-3.26	4.30	.71	1.29	-2.48	8.36	4.33	4.73	.12	49.82	-1.83
Oates Tower	4.15		2.06		3.25		1.36		3.80		6.48		2.60		1.66		1.82		2.25		4.00		2.72		36.15	
Odessa	-		-		-		-		-		-		5.71		3.59		2.82		1.78		2.19		.59			
Oregon	.79	- .14	1.04	- .33	2.77	.81	3.92	.63	3.70	- .83	7.53	2.16	5.11	.93	3.78	- .02	2.25	-2.85	2.24	- .51	1.60	- .38	1.15	.11	35.88	- .42
Osceola 3 NE	1.89	- .24	1.53	- .19	3.53	.34	1.11	-3.27	3.00	-2.47	11.93	6.70	8.58	4.72	4.21	.14	1.34	-3.47	3.34	.18	2.75	- .03	1.33	- .80	44.54	1.61
Owensville	3.35	1.53	1.31	- .35	6.07	2.75	2.81	- .50	2.94	-1.86	10.11	5.46	14.75	11.13	3.48	- .36	.49	-3.00	3.45	.02	2.17	- .64	1.42	- .91	52.35	13.27
Ozark	2.47		2.42		5.58		1.65		3.08		10.43		7.09		2.51		1.85				2.56		3.42			
Ozark Beach	2.28	- .69	3.22	1.42	5.60	2.51	1.11	-3.36	3.22	-2.00	11.07	5.19	3.85	.46	3.64	- .69	.96	-2.23	1.72	-2.15	3.56	.79	2.82	.07	43.05	- .68
Pacific	3.29	.93	1.62	- .52	5.57	1.86	3.42	- .75	2.12	-2.83	4.66	.13	8.05	4.41	2.94	- .75	1.45	-2.35	4.05	1.02	3.22	.47	1.69	- .51	42.08	1.11
Palmyra	1.29	- .71	2.04	.30	2.29	- .39	1.55	-2.18	3.33	- .98	5.71	.96	4.95	1.70	2.64	-1.20	1.58	-3.19	2.58	.22	1.84	- .40	1.21	- .43	31.01	- 6.30
Paris	1.84	.05	2.19	.76	3.00	.73	.95	-1.52	2.33	-2.17	3.42	- .72	4.63	1.99	2.99	- .59	2.58	- .69	2.10	.23	1.94	-1.05	.99	- .89	28.96	- 3.87
Parma	3.95	-1.31	3.73	.85	8.20	2.84	2.55	-1.69	2.54	-1.62	4.54	1.06	1.34	-2.55	2.82	-1.75	3.70	-1.35	1.88	-1.26	9.18	4.71	6.45	1.67	58.88	- .40
Pattonsburg	.92		1.88		2.51		1.45		2.50		6.46		1.60		2.09		2.51		2.59		.99		1.30		26.80	
Perry 1 E	.85	-1.07	1.89	.60	2.86	.68	.73	-1.58	1.98	-2.24	4.27	.51	3.28	.76	1.96	-1.85	.95	-2.02	1.80	- .04	1.53	-1.14	1.38	- .33	23.48	- 7.72
Perryville	3.57		2.67		3.80		1.86		5.04		3.84		5.10		1.03		2.39		1.85		4.58		1.79		37.52	
Philadelphia	1.26	- .55	2.19	.56	5.81	3.65	1.72	- .53	2.64	-2.22	5.49	.73	6.77	3.48	2.60	-1.81	2.02	-1.24	2.21	.19	1.49	-1.30	-			
Pierce City	.87		3.01		4.48		1.57		4.38		11.65		6.79		4.61		1.17		1.32		4.84		2.09		46.78	
Pineview Lookout	2.46		3.31		7.38		1.65		-		-		-		-		-		-		2.73		2.99			
Pleasant Hill	1.08	- .62	.95	- .52	6.11	2.77	1.06	-4.77	4.06	-2.03	12.55	5.80	9.60	6.84	6.52	2.54	2.50	-1.75	2.02	-1.81	2.16	.00	1.03	-1.02	49.64	5.43
Polo	1.62		1.34		3.98		1.28		4.27		9.13		2.87		2.90		2.29		1.84		1.80		-			
Poplar Bluff	2.35	-2.07	3.55	.66	5.05	.69	4.31	- .20	2.84	-1.68	7.40	3.28	1.09	-2.85	.88	-3.69	3.47	- .42	1.78	-1.88	8.12	4.64	4.87	.88	45.71	- 2.64

See reference notes following Station Index.

TOTAL PRECIPITATION AND DEPARTURES FROM NORMAL

Station	January		February		March		April		May		June		July		August		September		October		November		December		Annual	
	Precip	Departure	Precip	Departure	Precip	Departure	Precip	Departure	Precip	Departure	Precip	Departure	Precip	Departure	Precip	Departure	Precip	Departure	Precip	Departure	Precip	Departure	Precip	Departure	Precip	Departure
Potosi 2 S	-		2.18		4.91		1.08		4.31		3.74		5.17		1.24		1.44		3.96		3.69		1.94			
Puxico	3.67		3.12		5.37		3.69		3.28		6.87		2.61		.90		3.66		2.30		5.72		5.29		46.48	
Qulin																										
Reyoolds	4.43		2.44		4.08		1.66		4.71		7.05		3.38		.99		1.71		2.13		-		-			
Richwoods	3.85	1.75	2.15	- .43	4.29	.87	1.23	-3.27	2.84	-2.64	5.80	.96	7.39	4.85	1.04	-2.23	.85	-2.73	3.38	1.00	3.15	- .48	1.12	-1.51	37.09	- 3.86
Ridgeway 1 SE	1.36		1.71		2.22		2.23		3.67		6.25		1.70		2.81		-		1.95		.87		1.30			
Roby	1.75		2.41		5.15		1.26		4.70		12.09		2.57		1.03		1.64		3.94		3.46		2.70		42.70	
Rogersville	.49		2.47		5.67		1.75		3.61		8.60		4.83		2.01		2.17		3.24		3.81		2.45		41.10	
Rolla School of Mines	2.80	.34	1.82	- .23	4.71	1.08	1.28	-2.94	4.15	- .60	7.33	2.92	7.38	3.99	1.78	-2.66	.57	-3.57	2.94	- .52	2.61	- .07	1.80	- .38	39.17	- 2.64
Rolla 5 SE	-		-		4.43		1.89		3.53		6.06		3.41		1.11		.55		3.00		2.44		1.70			
Rolla 3 W	-		-		5.02		1.35		3.77		7.55		4.91		1.53		.44		3.09		2.28		1.56			
Rolla 4 5E															1.49		-		3.30		2.62		1.78			
Rolla 7 S															-		.76		3.25		2.48		1.79			
Round 5prings	4.77		2.11		4.55		2.50		5.56		7.19		3.65		.78		1.85		2.18		4.95		2.81		42.90	
Saint Charles	2.69	.54	1.68	- .31	6.45	3.28	1.60	-2.15	2.95	-1.33	3.79	- .21	7.99	5.00	1.35	-2.89	3.06	- .78	4.09	.91	2.67	.56	1.62	- .17	39.94	2.45
Saint James 3 NW	-		-		4.59		2.45		4.35		8.66		7.09		1.91		.57		2.32		2.45		1.31			
5t. Joseph WB Airport	.59	- .69	1.01	- .72	3.73	1.25	1.63	-1.56	2.88	-1.82	7.01	2.06	6.82	3.04	4.36	.53	1.51	-2.41	2.06	- .83	1.27	- .31	1.15	- .14	34.02	- 1.60
St. Louis W8 Airport	.85	-1.41	1.73	- .57	6.40	3.52	1.32	-2.30	2.44	-1.48	5.12	.83	12.69	10.03	2.08	- .94	1.71	-2.66	4.53	1.11	2.55	.15	1.49	- .24	42.91	6.04
St. Louis WB City	.94	-1.40	1.54	-1.09	5.31	1.93	2.21	-1.60	3.17	-1.17	3.98	.16	7.30	4.32	.84	-2.15	2.50	- .96	2.25	- .47	2.46	- .37	2.01	- .20	34.51	- 3.00
St. Louis Univ	.97	-1.63	1.51	- .80	5.97	2.63	1.89	-1.97	3.10	-1.09	4.22	.63	7.72	4.54	.76	-3.18	2.15	-1.61	2.20	- .96	2.71	.17	1.77	- .67	34.97	- 3.94
5t. Louis Wash Univ	2.36	.72	1.68	- .59	5.82	2.10	1.69	-3.27	2.94	-1.77	4.07	-1.07	11.70	9.07	.88	-4.24	1.85	-1.45	2.60	- .09	2.80	- .93	1.66	- .31	48.05	- 1.83
Saint Thomas	2.64	.16	1.21	- .12	4.61	2.10	1.34	-1.82	4.56	.18	7.92	2.60	6.43	4.09	3.42	- .27	.78	-4.08	2.96	- .93	4.97	1.77	1.28	-1.03	42.12	2.65
Salem	1.27	-1.45	2.27	- .01	5.74	1.87	2.14	-2.36	4.89	.38	8.69	4.04	6.39	2.89	1.96	-2.61	.84	-3.04	3.86	.24	4.42	1.78	2.14	- .40	44.61	1.33
5alishury	1.39		1.45		5.79		1.04		2.74		3.67		4.29		2.12		3.03		1.44		4.10		1.51		32.57	
Savertoo Lock Dam 22	1.32	- .59	1.50	.03	3.93	..77	2.03	-2.66	3.47	-1.94	3.83	-1.89	7.69	5.31	4.77	.31	1.41	-2.14	2.28	-1.15	1.95	-1.20	1.57	- 3.0	35.75	- 5.45
Sedalia	1.26	- .99	1.42	- .72	3.36	.53	.58	-3.15	5.27	.73	15.17	9.89	8.36	3.92	.75	-4.43	1.73	-3.17	3.29	.61	4.36	2.74	.88	- .40	46.43	5.56
5eligman	2.25	- .54	3.59	1.75	6.53	2.93	1.89	-2.17	4.38	-1.06	7.01	2.06	4.21	.09	5.84	1.84	.06	-3.62	1.35	-2.11	2.66	- .43	2.31	.11	42.08	- 1.15
Seneca	.35		2.54		-		1.84		5.41		11.88		7.73		6.63		1.02		.69		2.27		1.79			
Seymour 4 NNE	2.55	- .04	2.61	.43	5.52	1.86	1.33	-2.99	-		-		-		-		-		3.24	- .24	.00		.00			
Shelbina	1.95	.42	2.08	.24	5.36	2.57	1.44	-2.31	4.56	.24	3.38	-1.10	5.46	1.59	3.52	- .20	2.26	-2.68	2.45	- .16	2.62	.52	1.20	- .34	36.28	- 1.21
Shelhyville	1.45	- .12	1.64	.25	4.65	2.40	1.24	-1.48	2.98	-1.64	3.30	-1.28	5.92	3.20	3.01	-1.22	2.14	-1.01	2.07	- .05	2.25	- .73	-			
5hell Koob	3.12		3.54		6.20		1.19		4.29		5.51		4.97		3.69		.56		1.37		2.33		3.35		48.12	
5ikeston	3.88	- .98	3.65	.43	6.08	1.62	2.26	-2.36	2.06	-2.18	4.25	.06	3.68	- .04	1.06	-2.74	5.63	1.75	1.26	-2.01	7.96	4.40	4.40	.46	46.17	- 1.59
Siloam Springs	4.71		2.62		2.50		2.86		4.13		6.03		5.23		2.64		1.85		1.81		4.21		4.24		42.83	
Skidmore	.56		1.61		4.03		2.89		3.28		5.39		3.97		3.41		2.64		3.79		1.34		1.14		34.05	
Speed 2 W															-		-		-		5.05		.92			
5pring City	.42		1.93		5.93		1.97		7.47		9.95		8.23		2.91		1.18		1.07		2.43		1.43		44.92	
Springfield WB Apt4NW	.44	-1.90	1.87	- .56	4.03	.64	1.22	-2.64	3.48	-1.71	10.96	6.28	5.08	.87	2.04	-2.05	2.73	- .79	2.52	- .53	3.07	.28	2.01	- .30	39.45	- 2.41
Stanberry	1.44		1.36		2.91		2.17		2.86		-		3.38		2.53		2.43		1.82		.68		1.41			
5teelville 2 NNE	3.40	1.34	1.77	- .40	4.68	1.94	2.07	-2.41	3.99	- .51	7.51	3.35	4.37	1.21	2.78	- .86	.78	-2.63	3.86	.61	2.06	- .68	1.00	-1.29	38.27	- .33
5teffenville	1.74	- .27	1.80	.03	5.06	2.05	2.46	-1.12	2.06	-2.51	3.04	-1.50	8.29	4.18	2.54	-1.50	2.07	-2.43	1.93	- .80	1.95	- .24	1.83	.14	34.77	- 3.97
Stover	1.80	.12	1.15	- .28	4.51	1.88	.92	-2.90	-		13.71	8.36	5.21	1.86	.79	-3.13	1.44	-2.63	2.27	-1.75	3.40	.62	1.47	- .67		
Sugar Camp Lookout	3.67		3.76		5.80		1.16		-		-		-		-		-		-		1.64		3.78			
5ullivao 3 5E	2.47	.44	1.41	-1.04	3.43	.79	2.24	-2.17	3.43	-2.37	7.69	1.74	6.75	3.83	2.46	- .53	1.02	-2.10	3.69	.60	2.36	- .93	.95	-1.75	37.90	- 3.49
Summersville	4.44		2.46		4.84		1.76		3.59		8.17		5.10		2.22		1.93		2.49		4.58		3.50		45.08	
5umner 2 5W																							1.90			
Sweet 5priogs	1.33		1.52		5.69		.64		5.42		13.20		6.20		2.25		2.28		2.19		3.50		.94		45.16	
Tarkio AP CAA	.27	- .47	1.47	.19	3.84	2.17	2.80	- .44	1.90	-2.64	3.53	-1.43	2.73	-1.42	2.03	-1.87	2.60	-1.64	2.92	.11	2.55	.81	1.16	.20	27.80	- 6.43
Tecumseh	4.26		3.87		3.81		3.26		2.96		5.93		2.73		1.74		.92		2.48		3.88		4.54		48.38	
Topaz	4.19		3.31		5.48		1.33		3.54		8.34		3.11		4.74		2.71		3.01		2.87		1.60		44.23	
Treotoo	2.28	.94	1.80	.22	3.99	1.54	.90	-2.68	3.49	-1.21	6.05	1.01	2.62	-1.45	2.53	-1.35	2.44	-2.31	1.31	-1.82	1.30	- .82	1.64	.23	38.35	- 7.70
Troy	1.89	- .11	1.31	- .22	5.41	2.69	1.72	-1.29	3.70	- .19	5.97	2.31	10.44	8.09	.68	-3.16	3.04	- .18	3.88	1.17	3.17	.18	1.45	- 55	42.66	8.74
Uoion 2 SE	2.37	.05	1.14	-1.06	5.18	1.88	2.13	-2.23	2.27	-2.27	5.78	1.48	8.90	4.96	1.52	-3.18	1.18	-3.01	3.62	.14	2.34	- .41	1.48	- .73	37.91	- 4.38
Unionville	1.97	.25	1.39	- .38	3.89	1.39	2.71	- .99	2.59	-2.66	5.10	- .09	1.89	-2.23	2.80	-1.48	4.17	- .92	1.24	-1.89	1.89	- .31	1.66	- .05	31.30	- 9.36
Valley Park	2.67	.41	2.02	.13	5.80	2.43	1.37	-2.75	2.75	-1.72	5.03	2.15	7.88	4.96	2.34	-1.71	2.16	-1.38	2.59	- .80	2.90	.30	1.47	- .70	38.98	1.32
Vao 8ureo	4.54	1.42	2.85	- .26	4.08	.64	2.99	-1.33	3.54	- .87	8.17	4.35	.84	-1.32	.60	-2.44	2.63	- .40	2.21	- .30	4.60	1.44	2.56	- .15	39.61	..78
Vandalia	1.63		1.75		4.54		1.22		3.00		4.94		8.02		1.53		1.59		3.00		2.41		1.56		35.19	
Vanzant	4.98		3.09		5.21		1.24		3.63		8.84		3.49		4.12		1.67		2.25		3.51		3.17		45.20	
Vichy 2 SE					5.82		1.80		4.02		10.60		6.80		.97		.55		3.53		2.64		1.25			
Vichy AP CAA 2 NW	1.53		2.82		6.09		1.54		3.25		10.78		5.98		2.00		.60		3.44		2.82		1.31		42.16	
Vieooa 3 NW															-		-		-		3.38		1.23			
Villa Ridge 3 NW	.46		1.26		4.96		2.29		2.05		5.27		8.59		1.72		1.00		3.40		2.43		1.53		34.96	
Waco	1.76		2.10		4.96		2.30		2.53		14.42		6.78		.63		1.16				1.74		.70			
Wappapello Dam	3.67	.99	3.52	- .09	5.77	1.02	4.01	-1.47	2.96	-1.55	6.70	2.76	2.21	- .74	.35	-3.90	3.71	.70	2.67	- .61	5.97	2.46	5.51	2.67	47.05	2.24
Warrensburg Central TC	.99	- .79	1.16	- .72	4.63	1.54	.44	-3.22	4.36	- .36	9.90	4.84	7.82	3.85	.79	-3.18	2.25	-2.53	1.82	-1.20	2.83	.61	1.09	- .45	38.08	- 1.61
Warrensburg 4 E	-		1.08		4.27		.50		4.26		9.96		8.93		.67		2.80		1.68		3.55		1.29			
Warreoton	1.20	- .99	1.25	- .64	5.70	2.52	1.77	-2.27	3.12	-1.28	6.83	3.05	9.55	6.41	.84	-2.83	2.92	-1.44	3.13	- .31	3.26	.64	1.84	- .24	41.41	2.62
Warsaw No 1	.97	-1.17	1.36	- .88	3.53	- .02	1.01	-3.45	3.68	-1.32	13.12	7.82	7.47	3.46	1.31	-3.31	1.78	-3.25	3.06	- .74	3.20	.56	1.11	-1.01	41.60	- 3.31
Warsaw No 2	1.68		1.16		3.35		.91		3.39		11.94		8.49		1.33		1.77		2.79		2.98		1.46		41.25	
Washington 3 S	.89		1.35		5.52		2.70		1.90		5.69		9.58		.80		1.25		3.66		2.71		1.52		37.57	
Wasola	4.07		3.27		5.47		1.71		3.57		9.61		3.92		2.11		1.84		2.31		4.20		3.06		45.14	
Waverly	1.20	- .34	1.11	- .55	5.00	2.24	.44	-3.27	3.54	-1.07	10.22	5.26	6.81	2.43	1.94	-1.75	-		-		2.28	..00	2.06	.48		
Wayoesville 2 E	2.47																									
Wehster Groves	1.76		1.69		5.92		1.95		3.36		4.08		9.26		.86		2.47		2.67		3.02		1.90		38.94	
Weiogarten	3.42		2.46		6.26		1.71		6.47		4.17		6.26		2.61		1.32		2.77		4.78		1.58		43.81	
West Plaios	.89	-2.09	3.01	- .48	2.95	- .96	2.22	-3.43	3.49	-1.49	8.28	3.32	2.60	.16	1.49	-1.24	1.67	-1.47	2.05	-1.17	6.27	2.23	3.90	.68	38.82	- 5.94
Williamsburg															-		-		-		3.25		1.27			
Williamsville	4.14	- .32	3.35	.71	4.86	.96	3.43	-1.29	4.67	.20	8.37	2.54	3.69	- .34	1.46	-3.88	3.13	- .24	2.70	-1.41	6.84	3.25	7.05	2.69	53.69	2.87
Willow Springs	4.51	1.33	3.22	.66	4.04	- .20	1.36	-3.48	3.33	-1.27	8.31	3.48	4.50	.70	3.59	- .49	2.09	-1.99	2.17	-1.15	4.50	1.16	4.46	1.66	46.08	.41
Willow Spriogs (F.S)	1.06		2.86		4.18		1.28		3.11		7.92		4.00		3.13		1.83		1.98		4.49		4.19		40.03	
Windsor 3 NW	-		-		-		-		-		-		10.44		.93		2.43		2.67		3.48		.87			
Wioooa Ranger Sta	4.27																									
Zalma	3.79	.05	2.06	-1.70	5.19	.38	2.42	-2.85	3.45	-1.15	6.90	2.72	1.68	-2.12	.63	-3.25	4.19	1.58	3.36	.32	5.03	1.48	5.37	2.51	44.07	- 1.03

See reference notes following Station Iodex.

TEMPERATURE EXTREMES AND FREEZE DATA

Table 3

Station	Highest	Date	Lowest	Date	Last spring minimum of			First fall minimum of			No. of days between dates		
					24° or below	28° or below	32° or below	32° or below	28° or below	24° or below	24° or below	28° or below	32° or below
Advance AP	100	8-22	3	1-28	3-13 (18°)	3-14 (28°)	4- 2 (32°)	10-17 (29°)	10-18 (25°)	12- 7 (23°)	269	218	198
Albany	98	8-22	-21	12-26	3-28 (21°)	4- 1 (26°)	4-14 (29°)	10-17 (27°)	10-17 (27°)	10-18 (22°)	204	199	186
Amity	97	8-22	-18	1-23	3-28 (20°)	4- 2 (27°)	4-14 (29°)	10-17 (28°)	10-17 (28°)	11-10 (23°)	227	198	186
Anderson 2 SW	94	8-22	-15	3-12	3-28 (21°)	4-15 (26°)	4-15 (26°)	10-12 (29°)	10-18 (18°)	10-18 (18°)	204	186	180
Appleton City	99	6-11	-11	1-28	3-28 (22°)	3-28 (22°)	4-14 (29°)	10-18 (24°)	10-18 (24°)	10-18 (24°)	204	204	187
Arcadia	102	8-23	- 9	1-24	3-15 (22°)	4- 2 (28°)	4- 4 (32°)	10- 5 (32°)	10-18 (22°)	10-18 (22°)	217	199	184
Bethany	100	8-22	-26	12-26	4- 1 (23°)	4-14 (26°)	4-14 (26°)	10-10 (32°)	10-17 (28°)	10-24 (24°)	206	186	179
Birch Tree	97	8-22	- 5	3-12	3-13 (-1°)	4- 2 (28°)	4- 3 (32°)	10-18 (20°)	10-18 (20°)	10-18 (20°)	219	199	198
Bolivar	98	8-22	- 6	3-12	3-13 (9°)	3-28 (25°)	3-29 (32°)	10-18 (27°)	10-18 (27°)	11-22 (22°)	254	204	203
Boonville Waterworks	98	7- 6	-10	1-23+	3-28 (24°)	3-28 (24°)	4- 1 (30°)	10-17 (32°)	10-18 (28°)	11-22 (23°)	239	204	199
Brookfield	104	8-24	-19	12-26	3-14 (19°)	3-28 (25°)	4-14 (30°)	10-18 (25°)	10-18 (25°)	11-23 (20°)	254	204	187
Brunswick	100	8-23	-13	12-26	3-14 (16°)	3-29 (26°)	4- 2 (31°)	10-18 (26°)	10-18 (26°)	11-22 (22°)	253	203	199
Butler	98	6-11	-10	1-28	3-28 (23°)	3-28 (23°)	4-14 (29°)	10-18 (24°)	10-18 (24°)	10-18 (24°)	204	204	187
Camdenton	99	8-23	-	-	3-13 (16°)	3-28 (25°)	3-28 (25°)	10-18 (26°)	10-18 (26°)	11-23 (20°)	255	204	204
Campbell	98	8-24	3	1-24	3-13 (20°)	3-13 (20°)	-	10-18 (27°)	10-18 (27°)	-		219	
Canton Lock & Dam 20	96	6- 5+	- 6	1-28	3-28 (24°)	4- 9 (28°)	4- 9 (28°)	10-18 (24°)	10-18 (24°)	10-18 (24°)	204	192	192
Cape Girardeau Mo. State	99	8-24	0	1-28	3-13 (18°)	3-13 (18°)	3-13 (18°)	10-18 (28°)	10-18 (28°)	12- 8 (24°)	270	219	219
Caplinger Mills	98	6-11+	-	-	-	-	-	10-11 (32°)	10-18 (24°)	10-18 (24°)			
Carrollton	100	8-23	-15	1-23+	3-13 (12°)	3-28 (25°)	4-14 (29°)	10-18 (24°)	10-18 (24°)	10-18 (24°)	219	204	187
Carthage	97	8-22	-12	3-12	3-28 (22°)	4-14 (27°)	4-14 (27°)	10-18 (24°)	10-18 (24°)	10-18 (24°)	204	187	187
Caruthersville	97	8-23	6	1-28	3-12 (17°)	3-12 (17°)	3-14 (32°)	11-23 (32°)	12- 8 (26°)	12-26 (20°)	289	271	254
Chillicothe AP CAA	99	8-23	-17	1-23+	3-28 (24°)	4- 1 (28°)	4-14 (29°)	10-17 (26°)	10-17 (26°)	10-18 (22°)	204	199	186
Clearwater Dam Site	100	8-22	2	1-24	3-15 (22°)	4- 2 (28°)	4- 3 (30°)	10-18 (27°)	10-18 (27°)	11-23 (21°)	253	199	198
Clinton	99	6-11+	-10	1-28	3-13 (14°)	3-28 (25°)	4-14 (32°)	10-17 (31°)	10-18 (26°)	11-22 (21°)	254	204	186
Columbia WB Airport	97	7- 7+	-10	1-28+	-	-	-	10-17 (31°)	10-18 (28°)	11-22 (24°)			
Columbia WB City	98	8-23	- 9	1-28	3-28 (24°)	3-28 (24°)	4- 1 (32°)	10-17 (31°)	10-18 (28°)	11-23 (22°)	240	204	199
Cplumbia U. of Mo. 9 NW	97	8-23	-12	1-28	3-28 (22°)	4- 1 (28°)	4-14 (31°)	10-17 (31°)	10-18 (24°)	10-18 (24°)	204	200	186
Conception	97	8-22	-20	1-23	3-28 (21°)	4- 2 (27°)	4-14 (31°)	10-17 (25°)	10-17 (25°)	11-10 (23°)	227	198	186
Crystal City	101	8-22	-17	1-24	3-13 (9°)	3-28 (27°)	4- 3 (32°)	10- 5 (31°)	10-18 (22°)	10-18 (22°)	219	204	185
Doniphan	97	6-21+	8	12-26	3-13 (11°)	4- 2 (28°)	4- 3 (31°)	10-18 (22°)	10-18 (22°)	10-18 (22°)	219	199	198
Edgerton	100	8-23	-20	12-26	4- 1 (24°)	4-14 (27°)	4-14 (27°)	10-11 (31°)	10-18 (22°)	10-18 (22°)	200	187	180
Eldon	98	8-20	- 7	1-23	3-13 (15°)	3-28 (25°)	3-28 (25°)	10-18 (27°)	10-18 (27°)	11-22 (23°)	254	204	204
Elsberry	97	6- 5+	-17	12-26	3-28 (23°)	3-28 (23°)	4- 3 (29°)	10- 4 (30°)	10-18 (19°)	10-18 (19°)	204	204	184
Farmington	99	8-22	- 5	1-23	3-13 (9°)	3-28 (25°)	4- 2 (30°)	10-18 (22°)	10-18 (22°)	10-18 (22°)	219	204	199
Fayette	98	8-23	-13	12-26	3-28 (23°)	3-28 (23°)	4-14 (32°)	10-18 (25°)	10-18 (25°)	11-23 (18°)	240	204	187
Fulton 4 SW	97	6-11+	-15	1-28	3-28 (23°)	3-28 (23°)	4- 9 (30°)	10-18 (24°)	10-18 (24°)	10-18 (24°)	204	204	192
Grant City	98	8-22	-20	1-23	4- 1 (23°)	4- 2 (26°)	4-14 (31°)	10-17 (24°)	10-17 (24°)	10-17 (24°)	199	198	186
Greenville 1 SW	104	8-22	1	1-24	3-13 (10°)	4- 2 (27°)	4- 3 (30°)	10-18 (22°)	10-18 (22°)	10-18 (22°)	219	199	198
Hannibal Waterworks	97	8-23	- 8	1-28	3-13 (14°)	3-28 (25°)	4- 9 (32°)	10-17 (31°)	10-18 (25°)	11-23 (20°)	255	204	191
Harrisonville	98	8-23	-11	1-28	3-28 (21°)	3-28 (21°)	4-15 (31°)	10-18 (30°)	11-10 (26°)	11-21 (23°)	238	227	186
Jackson	103	8-22	- 1	1-28	3-13 (15°)	3-28 (26°)	4- 3 (32°)	10-18 (25°)	10-18 (25°)	11-30 (24°)	262	204	198
Jeff City Radio KWOS	98	8-22	-15	1-28	3-28 (23°)	3-28 (23°)	4- 2 (31°)	10-18 (23°)	10-18 (23°)	10-18 (23°)	204	204	199
Joplin AP CAA	97	8-20	- 5	3-11	3-13 (13°)	3-28 (25°)	4-14 (30°)	10-18 (28°)	10-18 (28°)	11-22 (21°)	254	204	187
Kansas City WB Airport	100	8-22	- 5	1-23	3-13 (21°)	3-28 (28°)	4- 1 (31°)	10-18 (32°)	11-10 (27°)	11-22 (21°)	254	227	200
Kansas City Univ. of K.C	100	8-23	-11	1-23	3-13 (18°)	3-28 (27°)	4-14 (31°)	10-18 (25°)	10-18 (25°)	11-22 (21°)	254	204	187
Kidder	99	8-23	-17	1-23	4- 1 (24°)	4- 1 (24°)	4-14 (30°)	10-17 (26°)	10-17 (26°)	11-10 (23°)	223	199	186
Kirksville	99	8-22	-13	1-28	3-28 (23°)	4- 9 (28°)	4-14 (32°)	10-17 (30°)	10-18 (22°)	10-18 (22°)	204	192	186
Kirksville AP CAA	98	8-22	-16	1-23	3-28 (22°)	4- 1 (26°)	4-14 (30°)	10-17 (24°)	10-17 (24°)	10-17 (24°)	203	199	186
Koshkonong	99	8-22	-	-	3-13 (19°)	3-28 (27°)	-	10-18 (28°)	10-18 (28°)	11-23 (24°)	255	204	
Lakeside	99	8-23	-10	3-12	3-14 (18°)	3-28 (25°)	4- 2 (30°)	10-17 (26°)	10-17 (26°)	11-23 (18°)	257	203	198
Lamar	94	8-23	- 9	3-12	3-28 (21°)	4-15 (28°)	4-15 (28°)	10-17 (31°)	10-18 (25°)	11-22 (17°)	239	186	185
Lathrop 3 SW	98	8-22	-14	1-23	3-28 (22°)	4- 1 (25°)	4-14 (32°)	10-17 (28°)	10-17 (28°)	11-10 (22°)	227	199	186
Lebanon	99	8-23	- 7	1-28	3-28 (22°)	3-28 (22°)	3-28 (22°)	10-18 (23°)	10-18 (23°)	10-18 (23°)	204	204	204
Lexington	100	8-23	- 9	1-23	3-14 (18°)	3-28 (26°)	4-14 (32°)	10-18 (32°)	11-13 (28°)	11-23 (23°)	254	230	187
Licking 4 N	97	8-23	-	-	3-28 (20°)	3-28 (20°)	3-28 (20°)	-	-	-			
Lockwood	98	8-22	- 4	1-28+	3-13 (18°)	3-28 (25°)	4-14 (31°)	10-17 (32°)	10-18 (27°)	11-22 (19°)	254	204	186
Louisiana Starks Nur.	97	6-11+	-18	12-26	3-13 (8°)	3-28 (26°)	4- 9 (31°)	10- 4 (30°)	10-18 (20°)	10-18 (20°)	219	204	178
Macon	100	8-23	-12	1-23	3-28 (22°)	4- 9 (28°)	4-14 (30°)	10-18 (25°)	10-18 (25°)	11-13 (24°)	230	192	187
Marble Hill	104	8-22	-	-	3-28 (23°)	4- 2 (26°)	4-15 (32°)	10- 5 (31°)	10-18 (20°)	10-18 (20°)	204	199	173
Marshall AP CAA	99	8-22	-16	1-23	-	-	-	10-11 (32°)	10-17 (27°)	10-18 (24°)			
Marshfield	98	8-23	- 7	3-28	3-28 (23°)	3-28 (23°)	4- 2 (32°)	10-17 (32°)	10-18 (23°)	10-18 (23°)	204	204	198
Maryville	96	8-23	-22	1-23	4- 1 (22°)	4- 2 (26°)	4-14 (29°)	10-17 (24°)	10-17 (24°)	10-17 (24°)	199	198	186
Memphis	102	8-24	-10	1-28+	3-29 (22°)	4- 9 (28°)	4-14 (31°)	10-17 (31°)	10-18 (24°)	10-18 (24°)	203	192	186
Mexico	100	8-23	-10	1-23+	3-28 (23°)	3-28 (23°)	4-14 (32°)	10-17 (31°)	10-18 (25°)	11-22 (24°)	239	204	186
Moberly AP 4 NE	100	8-23	-13	1-28	3-14 (21°)	4- 1 (28°)	4-14 (32°)	-	-	-			
Monett	94	8-24	- 3	3-11	3-28 (24°)	3-28 (24°)	3-29 (31°)	10-17 (32°)	11-22 (22°)	11-22 (22°)	239	239	202
Mountain Grove 2 N	98	8-22	- 3	3-12	3-28 (24°)	3-28 (24°)	3-29 (32°)	10-18 (25°)	10-18 (25°)	11-23 (20°)	240	204	203
Neosho	96	8-21	-11	3-12	3-28 (22°)	4-14 (27°)	4-14 (27°)	10-18 (21°)	10-18 (21°)	10-18 (21°)	204	187	187
Nevada	98	6-11+	-10	1-28	3-28 (21°)	3-28 (21°)	4-14 (29°)	10-17 (32°)	10-18 (26°)	11-22 (19°)	239	204	217
New Florence AP 1 SE	96	8-22	-11	1-28	3-28 (24°)	3-28 (24°)	4- 9 (32°)	10-17 (29°)	10-18 (23°)	10-18 (23°)	204	204	191
Oregon	98	8-18	-15	1-23	3-28 (21°)	4- 1 (26°)	4- 1 (26°)	10-17 (27°)	10-17 (27°)	11-13 (22°)	230	199	199
Ozark Beach	101	8-23	- 3	3-12	3-14 (19°)	3-29 (28°)	4- 2 (32°)	10-18 (27°)	10-18 (27°)	11-23 (19°)	254	203	199
Polo	97	8-23	-14	1-23	3-28 (23°)	4- 1 (27°)	4- 9 (32°)	10-17 (30°)	11-10 (26°)	11-13 (24°)	230	223	191
Poplar Bluff	102	8-21	3	1-28	3-13 (18°)	3-14 (27°)	4- 3 (32°)	10-18 (25°)	10-18 (25°)	11-30 (24°)	262	218	198
Rolla School of Mines	97	8-26	- 6	1-23	3-13 (6°)	3-28 (25°)	3-28 (25°)	10-18 (28°)	10-18 (28°)	11-22 (24°)	254	204	204
Saint Charles	100	8-23+	- 7	1-28	3-13 (16°)	3-28 (27°)	3-28 (27°)	10-18 (27°)	10-18 (27°)	11-29 (23°)	261	204	204
Saint Joseph WB Airport	100	8-22	-13	12-25	3-28 (23°)	4- 1 (27°)	4- 2 (32°)	10-17 (29°)	10-18 (27°)	11-13 (24°)	230	200	198
Saint Louis WB Airport	100	8-23	- 6	1-28	3-13 (17°)	3-28 (27°)	3-28 (27°)	10-18 (28°)	10-18 (28°)	11-29 (23°)	261	204	204
Saint Louis WB City	99	8-23	1	1-28	3-13 (22°)	3-13 (22°)	3-28 (31°)	11-22 (31°)	11-29 (26°)	12-10 (16°)	272	261	239
Saint Louis University	97	8-23	1	1-28	3-13 (21°)	3-13 (21°)	3-28 (30°)	10-18 (31°)	11-29 (26°)	12-10 (16°)	272	261	204
Saint Louis Wash. Univ.	100	8-24	- 4	1-28	3-13 (9°)	3-28 (26°)	3-28 (26°)	10-18 (26°)	10-18 (26°)	11-29 (23°)	261	204	204
Salem	98	8-24	-11	1-24	3-13 (7°)	3-28 (25°)	3-28 (25°)	10- 4 (30°)	10-18 (22°)	10-18 (22°)	219	204	190
Salisbury	101	8-22	-14	12-26	3-13 (13°)	3-28 (26°)	4- 9 (31°)	10-18 (26°)	10-18 (26°)	11-23 (20°)	255	204	192
Saverton Lock & Dam 22	97	8-21	- 7	1-28	3-28 (24°)	3-28 (24°)	4- 1 (31°)	10-18 (24°)	10-18 (24°)	10-18 (24°)	204	204	200
Sedalia	97	8-22	-11	1-28	3-28 (24°)	3-28 (24°)	4-14 (31°)	10-18 (30°)	11-13 (26°)	11-23 (21°)	240	230	187
Seligman	92	8-23+	-	-	3-28 (23°)	4- 9 (27°)	4- 9 (27°)	11- 9 (32°)	11-10 (28°)	11-22 (22°)	239	215	214
Shelbina	100	8-23	-17	12-26	3-28 (24°)	4- 1 (28°)	4-17 (32°)	10-17 (32°)	10-18 (24°)	10-18 (24°)	204	200	183
Sikeston	102	8-24	1	1-28	3-13 (14°)	3-14 (25°)	3-28 (30°)	10-18 (25°)	10-18 (25°)	12- 8 (23°)	270	218	204
Springfield WB Apt. 4 NW	95	8-22	- 4	1-28	3-13 (10°)	3-28 (25°)	3-28 (25°)	10-18 (25°)	10-18 (25°)	11-22 (23°)	254	204	204
Steffenville	98	8-22	-16	12-26	3-13 (12°)	3-28 (25°)	4-14 (32°)	10- 5 (32°)	10-18 (23°)	10-18 (23°)	219	204	174
Sweet Springs	100	8-22	-15	1-28+	3-28 (24°)	3-28 (24°)	4-14 (29°)	10-18 (24°)	10-18 (24°)	10-18 (24°)	204	204	187
Tarkio AP CAA	99	8-22	-20	1-23+	4- 1 (24°)	4- 2 (27°)	4-14 (32°)	10-10 (30°)	10-17 (24°)	10-17 (24°)	199	198	179
Trenton	102	8-23	-14	1-28	3-28 (23°)	4- 1 (28°)	4-14 (31°)	10-17 (30°)	10-18 (25°)	11-13 (24°)	230	200	186
Union 2 SE	100	8-23	-17	1-24	3-13 (5°)	3-28 (25°)	4- 9 (31°)	10- 4 (31°)	10-18 (22°)	10-18 (22°)	219	204	178
Unionville	102	8-24	-15	1-28	3-27 (21°)	4- 9 (25°)	4-14 (30°)	10-17 (29°)	10-18 (22°)	10-18 (22°)	219	192	186

See reference notes following Station Index.

Table 3—Continued.

TEMPERATURE EXTREMES AND FREEZE DATA

Station	Highest	Date	Lowest	Date	Last spring minimum of			First fall minimum of			No. of days between dates		
					24° or below	28° or below	32° or below	32° or below	28° or below	24° or below	24° or below	28° or below	32° or below
Vandalia	-	-	-15	12-26	3-28 (24°)	3-28 (24°)	3-28 (24°)	10-17 (30°)	10-18 (22°)	10-18 (22°)	204	204	203
Vichy AP CAA 2 NW	97	8-22	- 8	1-23	3-28 (24°)	3-28 (24°)	3-28 (24°)	10-17 (31°)	11-13 (28°)	11-22 (22°)	239	230	203
Wappapello Dam	99	8-23	2	1-28	3-14 (24°)	3-14 (24°)	3-28 (31°)	10-18 (30°)	11-23 (25°)	12- 8 (24°)	269	254	204
Warrensburg Central T.C.	99	8-22	- 6	1-28	3-13 (15°)	3-28 (25°)	4- 1 (31°)	10-18 (31°)	11-10 (28°)	11-23 (21°)	255	227	200
Warrenton	98	8-23	-13	1-28	3-28 (22°)	3-28 (22°)	4- 9 (29°)	10- 4 (31°)	10-18 (22°)	10-18 (22°)	204	204	178
Warsaw No. 1	98	6-11+	-19	1-28	3-28 (23°)	3-28 (23°)	4-14 (31°)	10-18 (26°)	10-18 (26°)	11-21 (24°)	238	204	187
Wasola	103	8-22	- 1	3-12	3-13 (15°)	3-28 (25°)	3-28 (25°)	10-11 (32°)	10-18 (26°)	11-10 (24°)	242	204	197
Webster Groves	101	8-23	- 5	1-28	3-13 (12°)	3-28 (25°)	3-28 (25°)	10-18 (23°)	10-18 (23°)	10-18 (23°)	219	204	204
Weingarten	100	8-22	- 5	1-28	3-13 (17°)	3-28 (25°)	3-28 (25°)	10-18 (25°)	10-18 (25°)	11-29 (22°)	261	204	204
West Plains	98	8-22	- 8	3-12	3-13 (1°)	3-28 (26°)	4- 3 (32°)	10-17 (29°)	10-18 (24°)	10-18 (24°)	219	204	197
Willow Springs	93	8-22	- 7	3-12	3-13 (0°)	3-28 (26°)	4- 2 (29°)	10-18 (23°)	10-18 (23°)	10-18 (23°)	219	204	199

Table 4

TOTAL EVAPORATION AND WIND MOVEMENT

Station		Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual	Departure fr. normal
Columbia Univ. of Mo.	EVAP				6.149	5.205	6.033	5.680	5.942	5.160	3.171				
	WIND	1,776	2,157	3,300	2,439	683	767	416	301	671	1,014	2,223			
Lakeside	EVAP		1.176	3.062	6.874	5.702	6.177	6.622	5.627		3.401	2.249	4.250B		
	WIND	1,865	1,747	2,753	2,396	1,500	1,219	892	652		1,400	2,208	2,123		
St. Louis Washington Univ.	EVAP			2.366	4.974	4.848	6.045	5.770	5.771	4.302	1.919	.864			
	W1ND	1,526	1,484	1,960	1,584	867	619	328	320	458	518	832			

See reference notes following Station Index.

STATION INDEX

Station	Former station name	Index No.	County	Drainage	Latitude	Longitude	Elevation above mean sea level (feet)	Years of record			Opened or closed during year		Refer to tables
					° '	° '		Temperature	Precipitation	Evaporation	Month opened	Month closed	
Advance AP		0022	Stoddard	St. Francis	37 06	89 55	354	11	11				1 2 3
Albany		0051	Gentry	Grand	40 15	94 20	930	7	19				1 2 3
Alton 10 mi. SE		0122	Oregon	Black	36 41	91 24			7			Dec.	2
Alton 6 mi. ENE		0127	Oregon	Black	36 42	91 19			8				2
Altona		0135	Bates	Osage	38 24	94 13			12				2
Amity		0143	DeKalb	Grand	39 52	94 26	1620	2	13				1 2 3
Amsterdam		0151	Bates	Osage	38 21	94 35			8				2
Anderson 2 mi. SW		0164	McDonald	Neosho	36 39	94 21	1000	44	49				1 2 3
Annapolis		0179	Iron	Black	37 20	90 47			4				2
Appleton City		0204	St. Clair	Osage	38 13	94 05	800	53	56				1 2 3
Arcadia		0224	Iron	St. Francis	37 35	90 37	926	67	70				1 2 3
Ashton		0312	Clark	Mississippi	40 27	91 49							2
Auxvasse		0357	Callaway	Missouri	39 01	91 54			5				2
Ava Ranger Station		0365	Douglas	White	36 57	92 40			3				2
Bedford 1 mi. S		0503	Livingston	Grand	39 42	93 23			8				2
Belleview		0539	Iron	Meramec	37 41	90 44			12				2
Bernie		0595	Stoddard	St. Francis	36 40	89 58			3				2
Bethany		0608	Harrison	Grand	40 15	94 02	916	53	55				1 2 3
Birch Tree		0668	Shannon	Black	36 59	91 30	1000	53	54				2
Black 9 mi. NW		0695	Iron	Black	37 36	91 03	1000	55	55				1 2 3
Bloomfield		0735	Stoddard	St. Francis	36 54	89 57			3				2
Blue Lick		0747	Saline	Saline	38 59	93 12					June		2
Bolivar		0789	Polk	Osage	37 37	93 25	1071	45	53				1 2 3
Boonville		0812	Cooper	Missouri	38 58	92 45			71				2
Boonville Waterworks		0817	Cooper	Missouri	38 58	92 45	650	10	10				1 2 3
Bowling Green		0856	Pike	Mississippi	39 21	91 12			18				2
Bradleyville		0878	Taney	White	36 46	92 53			3				2
Brookfield		0980	Linn	Grand	39 47	93 05	767	7	7				1 2 3
Browning 3 mi. NE		1003	Linn	Grand	40 03	93 06			5				2
Brunswick		1037	Chariton	Grand	39 26	93 08	652	67	69				1 2 3
Buffalo		1087	Dallas	Osage	37 38	93 05			17				2
Bunker		1101	Reynolds	Black	37 30	91 15			4				2
Burlington Junction		1141	Nodaway	Missouri	40 26	95 04					Aug.		2
Butler		1145	Bates	Osage	38 16	94 20	865	2	7				1 2 3
Camdenton		1212	Pulaski	Osage	38 03	92 47	940	2	2				1 2 3
Campbell		1221	Dunklin	St. Francis	36 29	90 04	314	22	22				1 2 3
Canton Lock & Dam 20		1275	Lewis	Mississippi	40 08	91 31	488	10	18				1 2 3
Cap Au Gris Lock & Dam 25		1283	Lincoln	Mississippi	39 00	90 41			2				2
Cape Girardeau Mo. State		1291	Cape Girardeau	Mississippi	37 18	89 32	347	3	3				1 2 3
Cape Girardeau		1296	Cape Girardeau	Mississippi	37 18	89 32			48				2
Caplinger Mills		1304	Cedar	Osage	37 48	93 49			22				1 2 3
Carrollton		1340	Carroll	Missouri	39 22	93 30	754	2	2				1 2 3
Carthage		1356	Jasper	Spring	37 11	94 17	962	14	24				1 2 3
Caruthersville		1364	Pemiscot	Mississippi	36 17	89 40	265	52	56				1 2 3
Cassville Ranger Station		1383	Barry	White	36 41	93 52			8				2
Centerville		1467	Reynolds	Black	37 26	90 57			3				2
Centerville Ranger Station		1472	Reynolds	Black	37 26	90 57			12				2
Centralia		1482	Boone	Mississippi	39 12	92 08			12				2
Chadwick		1490	Christian	White	36 56	93 03			2				2
Chillicothe 2 mi. S		1580	Livingston	Grand	39 45	93 33	771		33				2
Chillicothe AP CAA		1585	Livingston	Grand	39 47	93 30		39	42				1 2 3
Clarksville Lock & Dam 24		1640	Pike	Mississippi	39 22	90 55							2
Clearwater Dam Site		1674	Wayne	Black	37 08	90 47	648		8				1 2 3
Clifton City		1704	Cooper	Missouri	38 45	93 02					June		2
Clinton		1711	Henry	Osage	38 22	93 46	786	55	61				1 2 3
Columbia WB Airport		1790	Boone	Missouri	38 58	92 22		8	8				1 2 3
Columbia WB City		1795	Boone	Missouri	38 57	92 20		58	58				1 2 3
Columbia Univ. of Mo. 9 mi. NW		1800	Boone	Missouri	38 59	92 28			4	4			1 2 3 4
Conception		1822	Nodaway	Missouri	40 14	94 40	1108	59	64				1 2 3
Concordia		1837	Lafayette	Missouri	38 59	93 34	783		31				2
Cook Station		1870	Crawford	Meramec	37 48	91 27			4				2
Crane Mountain		1980	Iron	St. Francis	37 27	90 38			4				2
Crocker		2004	Pulaski	Osage	37 59	92 15			17				2
Crystal City		2031	Jefferson	Mississippi	38 13	90 23	420	14	14				1 2 3
Cuba		2043	Crawford	Meramec	38 04	91 24			11				2
Deering		2156	Pemiscot	St. Francis	36 12	89 52			6				2
De Sota		2220	Jefferson	Mississippi	38 09	90 34			4				2
Dexter		2235	Stoddard	St. Francis	36 47	89 58			24				2
Doniphan		2289	Ripley	Black	36 37	90 49	344	44	44				1 2 3
Doniphan 2 mi. W		2294	Ripley	Black	36 37	90 51			3				2
Dora		2302	Ozark	White	36 46	92 13			8				2
Downing		2318	Schuyler	Mississippi	40 29	92 20			7				2
East End		2406	Iron	Meramec	37 41	91 02			4				2
Edgerton		2474	Platt	Missouri	39 30	94 37	856	28	45				1 2 3
Edina		2482	Knox	Mississippi	40 10	92 10			19				2
Eldon		2503	Miller	Missouri	38 20	92 35	934	53	49				1 2 3
Eldorado Springs		2511	Cedar	Osage	37 52	94 01			18				2
Elijah		2519	Ozark	White	36 36	92 09			3				2
Ellington		2547	Reynolds	Black	37 14	90 59			8				2
Ellsinore		2563	Carter	Black	36 56	90 45			4				2
Elsberry		2591	Lincoln	Mississippi	39 10	90 47	449	17	17				1 2 3
Eminence		2617	Shannon	Black	37 11	91 23	1250		7				2
Fairfax		2729	Atchison	Tarkio	40 20	95 24					Aug.		2
Farmington		2809	St. Francois	St. Francis	37 47	90 26	896	37	51				1 2 3
Fayette		2823	Howard	Missouri	39 09	92 41	760	68	65				1 2 3
Fisk		2881	Butler	St. Francis	36 47	90 12			18				2
Forsyth		2975	Taney	White	37 41	93 06			8				2
Fredericktown		3038	Madison	St. Francis	37 33	90 17			23				2
Fremont Tower	Winona Ranger Station	3052	Carter	Black	37 08	91 20							2
Fulton		3079	Callaway	Missouri	38 51	91 57	818	60	56				1 2 3
Galena		3094	Stone	White	36 48	93 28			36				2
Gallatin		3102	Daviess	Grand	39 55	93 57			46				2
Gerald		3178	Franklin	Meramec	38 24	91 20			7				2
Granby		3341	Newton	White	36 55	94 15			4				2
Grant City		3369	Worth	Grand	40 29	94 25	1134	44	56				1 2 3
Greenville 1 mi. SW		3451	Wayne	St. Francis	37 06	90 27	415	39	41				1 2 3
Hailey		3537	Barry	White	36 42	93 43			27				2
Hamden		3565	Chariton	Chariton	39 36	92 47			8				2
Hannibal		3596	Marion	Mississippi	39 42	91 20	759		6				2
Hannibal Waterworks		3601	Marion	Mississippi	39 41	91 20	759	56	64				1 2 3
Harris		3641	Sullivan	Grand	40 18	93 22			8				2
Harrisonville		3649	Cass	Osage	38 39	94 20	904	70	73				1 2 3
Hermann		3793	Gasconade	Missouri	38 42	91 25			74				2
High Lookout		3845	Shannon	Black	36 53	91 27			4				2
High Point 2 NE		3849	Moniteau	Missouri	38 31	92 34					Nov.		2
Hornersville		3999	Dunklin	St. Francis	36 03	90 06			8				2
Houston 1 mi. W		4021	Texas	Gasconade	37 20	91 53			8				2
Jackson		4226	Cape Girardeau	Mississippi	37 23	89 40	428	57	58				1 2 3
Jefferson City Radio KWOS		4271	Cole	Missouri	38 35	92 12	557	58	66				1 2 3
Jefferson City		4276	Cole	Missouri	38 34	92 11			7				2
Jerome		4291	Phelps	Gasconade	37 56	91 59			46				2
Jewett		4299	Madison	St. Francis	37 23	90 29			8				2

See reference notes following Station Index

Station	Former station name	Index No.	County	Drainage	Latitude		Longitude		Elevation above mean sea level (feet)	Years of record			Opened or closed during year		Refer to tables
					°	'	°	'		Temperature	Precipitation	Evaporation	Month opened	Month closed	
Joplin AP CAA		4315	Jasper	Neosbo	37	10	94	30	988	26	43				1 2 3
Kahoka		4349	Clark	Mississippi	40	25	91	43			19				2
Kansas City WB Airport		4359	Jackson	Missouri	39	07	94	35	741	59	59				1 2 3
Kansas City St. John & Elmwood		4364	Jackson	Missouri	39	06	94	32			6				2
Kansas City 75th & Holmes		4369	Jackson	Missouri	39	00	94	35			6				2
Kansas City 37th & Raytown Rd.		4374	Jackson	Missouri	39	03	94	30			6				2
Kansas City Univ. of K. C.		4379	Jackson	Missouri	39	02	94	35	908	10	10				1 2 3
Keytesville 4 mi. NE		4449	Chariton	Chariton	39	27	92	52					Nov.		2
Kidder		4481	Caldwell	Grand	39	47	94	06	1020	56	60				1 2 3
King City		4505	Gentry	Missouri	40	03	94	31	1095		40				2
Kirksville		4544	Adair	Mississippi	40	12	92	34	969	59	66				1 2 3
Kirksville AP CAA		4549	Adair	Mississippi	40	06	92	33	966	9	9				1 2 3
Koshkonong		4625	Oregon	Black	36	35	91	39	958	47	48				1 2 3
La Belle		4637	Lewis	Mississippi	40	07	91	55			18				2
Lakeside		4694	Miller	Osage	38	12	92	37	595	17	17	15			1 2 3 4
Lamar		4705	Barton	Neosho	37	30	94	16	980	60	67				1 2 3
Lampe Forest Service	Wilderness Lookout	4727	Stone	White	36	34	93	26			7				2
Lampe 4 mi. NNE		4732	Stone	White	36	38	93	24							2
Lathrop 3 mi. SW		4773	Clinton	Grand	39	32	94	22	1080	1	1				1 2 3
Lebanon		4825	Laclede	Osage	37	42	92	45	1265	60	61				2
Lecoma 3 mi. N		4828	Dent	Meramec	37	49	91	44	1140						2
Leeper		4844	Wayne	Black	37	04	90	42			23				2
Lexington		4904	Lafayette	Missouri	39	11	93	53	688	63	64				1 2 3
Licking 4 mi. N		4919	Texas	Gasconade	37	29	91	52	1170	11	11				1 2 3
Linneus 2 mi. S		4978	Linn	Grand	39	50	93	12			7				2
Livonia		5014	Putnam	Chariton	40	29	92	42			8				2
Lockwood		5027	Dade	Osage	37	23	93	57	1078	42	52				1 2 3
Louisiana Starks Nur.		5093	Pike	Mississippi	39	26	91	02	469	54	67				1 2 3
Louisiana		5098	Pike	Mississippi	39	27	91	03			5				2
Lucerne		5121	Putnam	Grand	40	27	93	18			7				2
Macedonia Lookout		5164	Ripley	Black	36	45	90	54			4				2
Macon		5175	Macon	Chariton	39	45	92	28	875	49	55				1 2 3
Madison		5183	Monroe	Mississippi	39	28	92	12			14				2
Malden		5205	Dunklin	St. Francis	36	34	89	57			7				2
Mansfield		5227	Wright	White	37	06	92	35			3				2
Marhle Hill		5253	Bollinger	Mississippi	37	18	89	59	532	53	55				1 2 3
Marshall AP CAA	Marshall	5298	Saline	Missouri	39	06	93	12			8				1 2 3
Marshfield		5307	Webster	White	37	20	92	54	1484	3	7				1 2 3
Martinshurg		5319	Audrian	Missouri	39	06	91	41			4				2
Maryville		5340	Nodaway	Missouri	40	21	94	52	1169	58	54				1 2 3
Maryville 6 mi. NNW		5345	Nodaway	Missouri	40	25	94	53	1160						2
McCredie 2 mi. W		5410	Callaway	Missouri	38	58	91	58			8				2
McCredie Exp. Station		5415	Callaway	Missouri	38	57	91	54			8				2
Memphis		5492	Scotland	Mississippi	40	27	92	10	787	9	18				1 2 3
Mercer 6 mi. NW		5519	Mercer	Grand	40	33	93	35					July		2
Mexico		5541	Audrain	Mississippi	39	10	91	53	800	59	70				1 2 3
Middletown		5565	Montgomery	Mississippi	39	07	91	25							2
Milan		5578	Sullivan	Grand	40	12	93	07			25				2
Moberly AP 4 mi. NE		5671	Randolpb	Mississippi	39	28	92	25	860	11	11				1 2 3
Monett		5700	Barry	Neosho	36	53	93	55	1317	1	1				1 2 3
Monroe City		5708	Monroe	Mississippi	39	39	91	44			25				2
Mora		5754	Benton	Missouri	38	32	93	13			8				2
Morebouse		5762	New Madrid	Mississippi	36	51	89	41			37				2
Moselle		5816	Franklin	Meramec	38	23	90	54			3				2
Mountain Grove 2 mi. N		5834	Wright	Gasconade	37	09	92	16	1463	47	1				1 2 3
Mount Vernon 3 mi. SW		5861	Lawrence	Neosho	37	04	93	52	1174	36	48				1 2 3
Neosho		5976	Newton	Neosho	36	52	94	22	1011	61	65				1 2 3
Nevada		5987	Vernon	Osage	37	50	94	21	862	55	56				1 2 3
New Boston		5999	Linn	Grand	39	57	92	51					Nov.		2
New Florence AP 1 mi. SE		6007	Montgomery	Missouri	38	53	91	26	885	5	6				1 2 3
New Madrid		6040	New Madrid	Mississippi	36	35	89	31			54				2
Novinger 1 mi. E		6170	Adair	Chariton	40	14	92	41					Nov.		2
Oates Tower		6263	Reynolds	Black	37	32	91	03			3				2
Odessa		6269	Lafayette	Missouri	39	00	93	57					June		2
Oregon		6357	Holt	Missouri	39	59	95	09	1093	92	92				1 2 3
Osceola 3 mi. NE		6407	St. Clair	Osage	38	05	93	42			7				2
Owensville		7438	Gasconade	Gasconade	38	21	91	30			5				2
Ozark		6452	Christian	White	37	01	93	13			3				2
Ozark Beach		6460	Taney	White	36	40	93	07	700	8	23				1 2 3
Pacific		6468	Franklin	Meramec	38	29	90	44			59				2
Palmyra		6493	Marion	Mississippi	39	48	91	31			42				2
Paris		6509	Monroe	Mississippi	39	29	92	00			18				2
Parma		6532	New Madrid	St. Francis	36	37	89	48			24				2
Pattonshurg		6563	Daviess	Grand	40	03	94	09			8				2
Perry 1 mi. E		6633	Ralls	Mississippi	39	25	91	41			18				2
Perryville		6641	Perry	Mississippi	37	44	89	51			7				2
Pbiladelphia		6667	Marion	Mississippi	39	50	91	44			15				2
Pierce City		6678	Lawrence	Neosho	36	57	94	00			4				2
Pineview Lookout		6700	Barry	White	36	42	93	37							2
Pleasant Hill		6748	Cass	Osage	38	48	94	17			10				2
Polo		6775	Caldwell	Missouri	39	33	94	03	1000	2	2				1 2 3
Poplar Bluff		6791	Butler	Black	36	45	90	24	339	43	44				1 2 3
Potosi 2 mi. S		6826	Washington	Mississippi	37	55	90	47			8				2
Puxico		6934	Stoddard	St. Francis	36	37	90	09			3				2
Qulin		6970	Butler	St. Francis	36	36	90	14			3				2
Reynolds		7094	Reynolds	Black	37	24	91	05			4				2
Richwoods		7122	Washington	Meramec	38	09	90	50			5				2
Ridgeway 1 mi. SE		7130	Harrison	Grand	40	22	93	57			6				2
Roby		7214	Texas	Gasconade	37	30	92	08			6				2
Rogersville		7255	Webster	White	37	07	93	03							2
Rolla School of Mines		7263	Phelps	Gasconade	37	57	91	46	1202	48	64				1 2 3
Rolla 5 mi. SE		7264	Phelps	Meramec	37	54	91	43	1100						2
Rolla 3 mi. W		7265	Phelps	Gasconade	37	57	91	50	865						2
Rolla 4 mi. SE		7266	Phelps	Meramec	37	56	91	43	1040						2
Rolla 7 mi. S		7267	Phelps	Meramec	37	51	91	46	970						2
Round Spring		7309	Shannon	Black	37	18	91	25			4				2
Saint Cbarles		7397	St. Charles	Missouri	38	47	90	29	520	60	70				1 2 3
Saint James 3 mi. NW		7424	Phelps	Meramec	38	01	91	40	1005						2
Saint Joseph WB Airport		7440	Buchanan	Missouri	39	46	94	55	957	38	76				1 2 3
Saint Louis WB Airport		7455	Saint Louis	Missouri	38	45	90	23	556	11	17				1 2 3
Saint Louis WB City		7460	St. Louis City	Mississippi	38	38	90	12	465	111	111				1 2 3
Saint Louis Univ.		7465	St. Louis City	Mississippi	38	38	90	14	578	36	36				1 2 3
Saint Louis Wash. Univ.		7470	St. Louis City	Mississippi	38	39	90	18			8	10			1 2 3 4
Saint Thomas		7497	Cole	Osage	38	22	92	13			7				2
Salem		7506	Dent	Meramec	37	38	91	33	1206	44	47				1 2 3
Salisbury		7514	Chariton	Chariton	39	26	92	48	723	2	2				1 2 3
Saverton Lock & Dam 22		7578	Ralls	Mississippi	39	3[illegible]	91	16	472	10	10				1 2 3
Sedalia		7632	Pettis	Missouri	38	42	93	14	910	35	37				1 2 3
Seligman		7645	Barry	Neosho	36	31	93	56	1542	47	45				1 2 3
Seneca		7656	Newton	Neosho	36	50	94	57			3				2
Seymour 4 mi. NNE		7674	Webster	White	37	12	92	45	1640	42	42				1 2 3
Sbelbina		7720	Shelby	Mississippi	39	43	92	03	779	7	55				1 2 3

See reference notes following Station Index

STATION INDEX

Continued.

Station	Former station name	Index No.	County	Drainage	Latitude °	Latitude '	Longitude °	Longitude '	Elevation above mean sea level (feet)	Years of record: Temperature	Years of record: Precipitation	Years of record: Evaporation	Opened or closed during year: Month opened	Opened or closed during year: Month closed	Refer to tables
Shelbyville		7728	Shelby	Mississippi	39	48	92	02			17				2
Shell Knob		7740	Barry	White	36	37	93	35			3				2
Sikeston		7770	Scott	Mississippi	36	53	89	35	318	41	51				1 2 3
Siloam Springs		7780	Howell	White	36	48	92	04			4				2
Skidmore		7813	Nodaway	Missouri	40	17	95	05			8				2
Speed 2 mi. W		7960	Cooper	Missouri	38	51	92	50					Nov.		2
Spring City		7967	Newton	Neosho	37	00	94	32			8				2
Springfield WB Airport 4 mi.NW		7976	Greene	Osage	37	14	93	23	1265	60	60				1 2 3
Stanberry		8003	Gentry	Grand	40	12	94	33			6				2
Steelville 2 NNE		8043	Crawford	Meramec	37	59	91	22			7				2
Steffenville		8051	Lewis	Mississippi	39	58	91	53	650	50	55				1 2 3
Stover		8112	Morgan	Missouri	38	26	93	02			24				2
Sugar Camp Lookout		8160	Barry	White	36	32	93	50							2
Sullivan 3 mi. SE		8171	Washington	Meramec	38	13	91	06			7				2
Summersville		8184	Texas	Black	37	11	91	40			4				2
Sumner 2 SW		8188	Livingston	Grand	39	38	93	17					Dec.		2
Sweet Springs		8223	Saline	Missouri	38	58	93	25	700	7	7				1 2 3
Tarkio AP CAA		8289	Atchison	Missouri	40	27	95	22	916	45	54				1 2 3
Tecumseh		8313	Ozark	White	36	35	92	17			3				2
Topaz		8412	Douglas	White	36	56	92	12			4				2
Trenton		8444	Grundy	Grand	40	05	93	37	822	52	53				1 2 3
Troy		8456	Lincoln	Mississippi	38	59	90	59			17				2
Union 2 mi. SE		8515	Franklin	Meramec	38	27	91	00	520	10	31				1 2 3
Unionville		8523	Putnam	Chariton	40	38	93	00	1062	55	55				1 2 3
Valley Park		8561	Saint Louis	Meramec	38	33	90	30			31				2
Van Buren		8569	Carter	Black	36	59	91	01			11				2
Vandalia		8577	Audrain	Mississippi	39	19	91	30	766	4	9				1 2 3
Vanzant		8585	Douglas	White	36	56	92	16			4				2
Vichy 2 mi. SE		8612	Maries	Meramec	38	05	91	44	1040						2
Vichy AP CAA 2 mi. NW		8614	Maries	Gasconade	38	08	91	46	1125	12	13				1 2 3
Vienna 3 mi. NW		8620	Maries	Osage	38	13	92	00					Nov.		2
Villa Ridge 3 mi. NW		8630	Franklin	Missouri	38	29	90	55			8				2
Waco		8664	Jasper	Spring	37	15	94	36			2				2
Wappapello Dam		8700	Butler	St. Francis	36	55	90	17	475	9	9				1 2 3
Warrensburg Central T. C.		8712	Johnson	Missouri	38	46	93	44	878	61	68				1 2 3
Warrensburg 4 mi. E		8717	Johnson	Missouri	38	45	93	39			8				2
Warrenton		8725	Warren	Mississippi	38	49	91	08	880	66	58				1 2 3
Warsaw No. 1		8733	Benton	Osage	38	15	93	21	687		53				1 2 3
Warsaw No. 2		8738	Benton	Osage	38	15	93	21			31				2
Washington 3 mi. S		8746	Franklin	Missouri	38	31	91	00			8				2
Wasola		8754	Ozark	White	36	48	92	34	1294	7	8				1 2 3
Waverly		8768	Lafayette	Missouri	39	13	93	31			33				2
Waynesville 2 mi. E		8777	Pulaski	Gasconade	37	50	92	11	805	2	2				2
Webster Groves		8791	Saint Louis	Mississippi	38	35	90	22	507	2	3				1 2 3
Weingarten		8799	St. Genevieve	Mississippi	37	53	90	13	833	7	8				1 2 3
West Plains		8880	Howell	Black	36	44	91	51	1005	11	11				1 2 3
Williamsburg		8960	Calloway	Missouri	38	55	91	43					Nov.		2
Williamsville		8984	Wayne	Black	36	58	90	33			24				2
Willow Springs		8995	Howell	White	36	59	91	59	1238	7	41				1 2 3
Willow Springs Forest Ser.		9000	Howell	Black	36	59	91	59			6				2
Windsor 3 mi. NW		9032	Henry	Osage	38	34	93	33					June		2
Zalma		9178	Bollinger	Mississippi	37	09	90	04			11				2

REFERENCE NOTES

Unless otherwise indicated, dimensional units used in this bulletin are: Temperature in °F; precipitation and evaporation in inches, and wind movement in miles. Evaporation is measured in the standard Weather Bureau type pan of 4 foot diameter unless otherwise shown by footnote following Table 4.

The four digit identification numbers in the Index are assigned on a state basis. There will be no duplication of numbers within a state.

Delayed data and corrections will be carried only in the June and December issues of Climatological Data.

- - No record.
- + Also later dates or months.
- // Gage is equipped with a windshield.
- B Adjusted to full month.
- E Water equivalent of snowfall wholly or partially estimated, using a ratio of 1 inch water equivalent to every 10 inches of new snowfall.
- M 1 to 10 days' record missing; see monthly Climatological Data for detailed daily record.
- T Trace, an amount too small to measure.
- V Includes total for previous month.

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